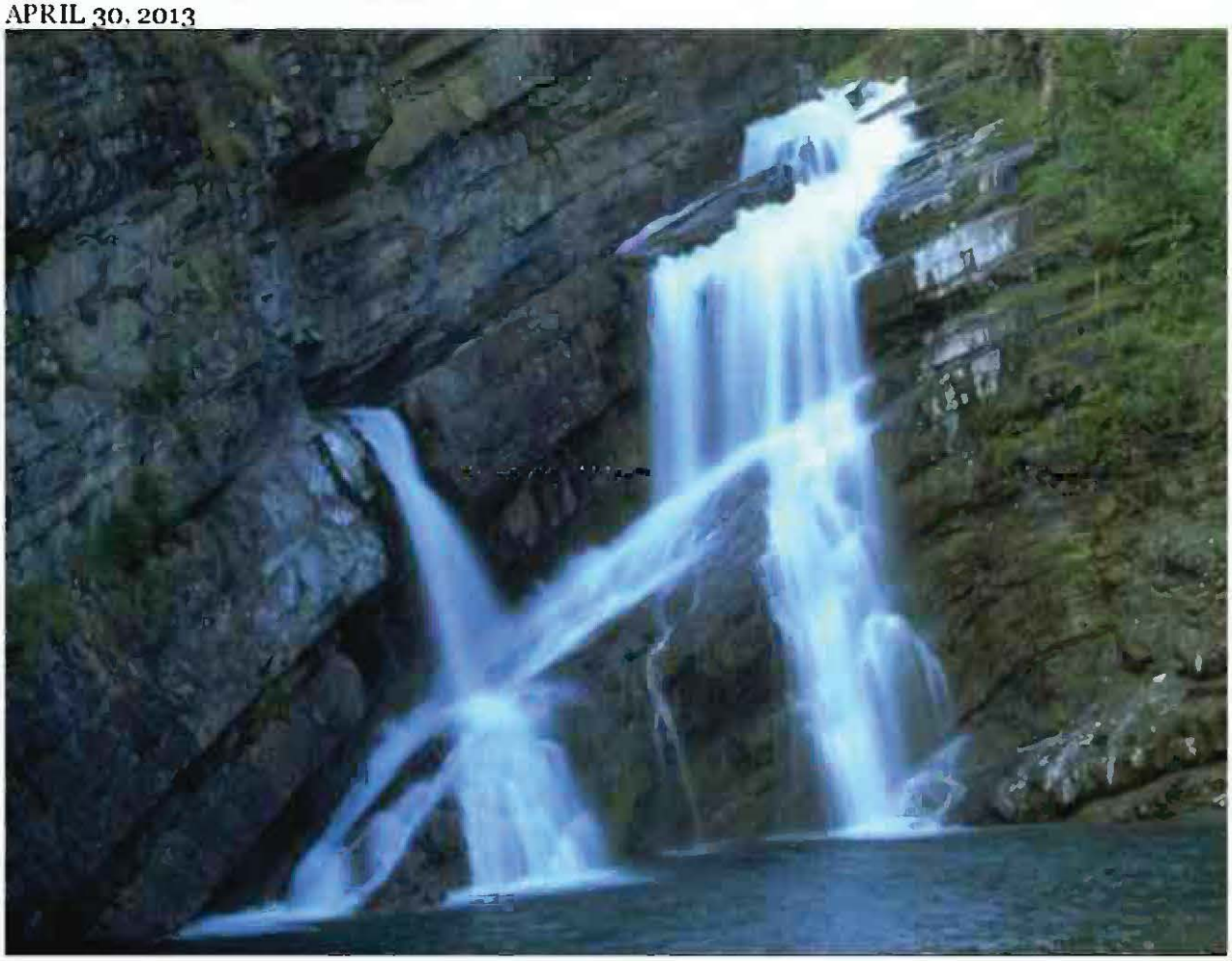
QUARTERLY MONITORING PROGRESS REPORT, 1ST QUARTER, 2013

MICHIGAN PLAZA
3801-3823 WEST MICHIGAN STREET
INDIANAPOLIS, INDIANA 46222
IDEM INCIDENT NO.: 0000198
IDEM VRP NO.: 6061202
MUNDELL PROJECT NO.: M01046
APRIL 30, 2013



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April 30, 2013

Mr. Corey Webb
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Quarterly Monitoring Progress Report – 1st Quarter 2013**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Mr. Webb:

This *Quarterly Monitoring Progress Report* is being submitted to the Indiana Department of Environmental Management (IDEM) by Mundell & Associates, Inc. (MUNDELL), on behalf of AIMCO Michigan Meadows Holdings, LLC (AMMH), to summarize remediation activities and quarterly monitoring performed between January 1 and March 31, 2013. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule.

1.0 SUMMARY OF MONITORING ACTIVITIES

1.1 Groundwater Monitoring Network Sampling

Between February 28 and March 9, 2013, quarterly groundwater sampling of twenty-eight (28) monitoring wells established with IDEM, twelve (12) additional MUNDELL monitoring wells on the Floral Park Cemetery property, and six (6) ENVIRON monitoring wells was completed. The following constitute this quarterly groundwater monitoring network:

A. *MUNDELL monitoring wells (40 total)*:

Michigan Plaza and Vicinity (15):

MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09S, MMW-P-09D, MMW-P-10S, MMW-P-10D, MMW-P-12S, and MMW-P-12D.

Maple Creek Village Apartment Complex (13):

MMW-1S, MMW-4D, MMW-6D, MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, MMW-15S, and MMW-15D.

Floral Park Cemetery (12):

MMW-C-01, MMW-C-02S, MMW-C-02D, MMW-C-16S, MMW-C-16D, MMW-C-17D, MMW-P-11S, MMW-P-11DR, MMW-P-13S, MMW-P-13D, MMW-P-14S, and MMW-P-14D.

B. *ENVIRON monitoring wells (6)*:

MW-167S, MW-167D, MW-168S, MW-168D, MW-170S, and MW-170D.

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the above-listed monitoring well network on March 1, 2013. Additional wells gauged during this sampling event consist of:

Maple Creek Village monitoring wells:

MMW-2S, MMW-3S, MMW-7S, and MMW-5D.

ENVIRON monitoring wells:

MW-166S, MW-166D, MW-169S, MW-169D, MW-171S, MW-171D, MW-174S, MW-174D, MW-175S, and MW-175D.

Little Eagle Creek Stream gauge Locations:

SG-1.

US EPA wells:

MW-WES-01A, MW-WES-01B, MW-WES-01C, MW-WES-02A, MW-WES-02B, MW-WES-02C, MW-WES-03A, MW-WES-03B, MW-WES-04A, MW-WES-04B, MW-WES-05A, MW-WES-05B, and MW-WES-05C.

Monitoring well gauging, survey and construction data are provided in **Table 1**. A site map depicting monitoring well locations is provided as **Figure 1**, and separate potentiometric surface maps for wells screened within the shallow portion and deeper portion of the upper sand and gravel aquifer are depicted on **Figure 2a** and **Figure 2b**, and **Figure 3a** and **Figure 3b**, respectively.

The monitoring wells were sampled utilizing both dedicated and portable bladder pumps for uniform low-flow purging and sample collection. The Troll 9500 multi-parameter meter (used inline with the bladder pumps) logs geochemical parameters (temperature, pH, dissolved oxygen, conductivity and oxidation-reduction potential), which help remove a minimal but sufficient amount of water (indicated by stabilization of geochemical parameters) to sample the well. The Troll helps assess the geochemical parameters to determine if conditions naturally conducive to natural attenuation exist in the aquifer. Excess purge water was transported to 55-gallon drums located at the Michigan Plaza property for subsequent proper off-site disposal. In accordance with IDEM guidelines, the contents in each drum were then identified with a label describing them as non-hazardous materials.

As agreed in the October 29th, 2008 meeting with IDEM and detailed in the *Remediation Work Plan Addendum* dated November 2008, groundwater samples were submitted to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana, for the shorter list of Volatile Organic Compound (VOC) analysis utilizing U.S. EPA SW-846 Method 8260, along with appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD) samples. Groundwater samples were transferred into three 40-milliliter glass sample vials containing the preservative hydrochloric acid (HCl). Groundwater sample vials were sealed in plastic bags and placed in a cooler containing ice and delivered to Pace using appropriate chain-of-custody protocol for laboratory tests. Pace laboratory certificates of analysis for the groundwater samples analyzed are presented in **Appendix A**. As will be discussed, the data indicate that anaerobic conditions which support the reductive dechlorination process currently exist in the aquifer.

Additional aquifer parameters, consisting of nitrate/nitrite (EPA 353.2), sulfate (ASTM D512-90,02), ferrous iron (field test - 1,10 Phenanthroline), total organic carbon (SM 5310C), methane (AM20GAX), ethane (AM20GAX) and ethane (AM20GAX) were analyzed to evaluate indicator compound breakdown and redox-sensitivity. In addition, volatile fatty acids (VFA) were tested to evaluate the bioremediation substrate CAP18 ME™ distribution and lifetime duration of the substrate product. These samples were collected in the previously selected indicator well locations representative of each plume to monitor the presence of residual CAP 18 ME™ in the aquifer and to provide additional monitoring of aquifer conditions. These identified locations consist of:

Source Area A: MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-11S, MMW-P-11DR, and MMW-C-01;

Source Area B: MMW-P-01, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-10S, MMW-P-10D, MMW-8S, MMW-P-12S, and MMW-P-12D;

Source Area C: MMW-1S, MMW-9S, and MMW-10S.

1.2 Additional Soil Delineation and Monitoring Well Installation

Between March 5 and 11, 2013, MUNDELL oversaw the advancement of soil borings MMW-08S-A, MMW-09S-A, MMW-10S-A, MMW-11D-A, MMW-13D-A, MMW-14D-A, SB-100, SB-101, and SB-102 at the Maple Creek Village Apartments complex, and MMW-P-02-A, MMW-P-03D-A, MMW-P-04-A, MMW-P-07-A, MMW-P10D-A, and SB-103 were installed within the right-of-way west of Michigan Plaza, along Michigan Street. The soil borings were to verify lithology at blind drilled zones of existing monitoring wells, and to collect additional soil data in the vicinity of Source Areas.

Soil Boring Advancement

Drilling services were provided by SCS Environmental Contracting, located in Ft. Wayne, Indiana with oversight by MUNDELL. Following utility clearance, soil borings were advanced utilizing a 6620 DT Geoprobe® direct push rig. Soil borings were sampled either continuously across previously blind-drilled intervals, or in the case of new boring locations, the borings were continuously sampled to the terminus depth. Soil samples were classified by a MUNDELL scientist. A photo-ionization detector was used to screen soil samples for total photo-ionizable vapors (TPV). Soil samples either with elevated TPV readings and/or in soil immediately above the water table or basal till were retained for laboratory analysis.

Soil samples submitted for VOC analysis were collected utilizing U.S. EPA SW-846 collection Method 5035. Soil cuttings were containerized in 55-gallon DOT drums, labeled properly and maintained at the Michigan Plaza site pending final disposal.

Selected soil samples were submitted to Pace for analysis of VOCs utilizing U.S. EPA SW-846 Method 8260.

2.0 MONITORING RESULTS

2.1 Groundwater Flow

During the preparation of the potentiometric surface maps for the Site, static water level data collected in the vicinity of Holt Road and Michigan Street – (shallow zone) MUNDELL monitoring well MMW-P-04, U.S. EPA monitoring wells MW-WES-01a and MW-WES-05a, and (deep zone) U.S. EPA monitoring well MW-WES-05c did not

conform to the relative changes in water levels from 1Q 2013 readings in nearby monitor wells. Therefore, water level elevations for those wells were considered suspect.

A review of the potentiometric surface map for the wells screened within the shallow portion of the surficial aquifer zone (**Figure 2a**) shows that direction of groundwater flow in the vicinity of **Source Areas A**, **B** and **C** is from the north-northwest to the south-southeast. There is no component of groundwater flow towards the residential area west of Holt Road. This flow pattern exists even if the suspect static water elevations from MMW-P-04, MW-WES-01a, and MW-WES-05a are included (**Figure 2b**).

A review of the potentiometric surface map for the wells screened within the deeper portion of the surficial aquifer (**Figure 3a**) indicates a similar groundwater flow direction, *i.e.*, north-northwest to south-southeast in the vicinity of Source Areas A, B and C. As with the shallow portion of the surficial aquifer, the direction of flow in the deeper portion remains the same even if the suspect water level in the deep monitor well MW-WES-05c is considered (**Figure 3b**). Again, there is no component of groundwater flow towards the residential area west of Holt Road.

2.2 Groundwater Analytical Results

Groundwater analytical testing results for this quarter are summarized in **Table 2** and presented on **Figure 4** (shallower portion of aquifer) and **Figure 5** (deeper portion of aquifer), the cumulative historic groundwater results are included in **Table 3**, and the cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 4**. The historical indicator compounds trends in groundwater are presented in **Figure 6**. Cumulative low-flow sampling data are provided in **Appendix B**. A summary of exceedances within the shallow monitoring well network and deep monitoring well network follows.

2.2.1 Shallow Monitoring Well Network Summary

PCE

PCE concentrations were reported in exceedance of the associated IDEM RISC Industrial Default Closure Level (IDCL) in the following monitoring wells:

Maple Creek Village Apartments: MMW-1S.

Floral Park Cemetery: MMW-P-11S.

ENVIRON monitoring wells: MW-168S.

PCE was reported in exceedance of the IDEM RISC Residential Default Closure Level (RDCL) in the following monitoring wells:

Maple Creek Village Apartments: MMW-8S, MMW-9S, and MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01, and MMW-P-04.

Floral Park Cemetery: MMW-C-01

TCE

TCE concentrations were reported in exceedance of the associated IDEM RISC RDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-1S, MMW-9S, and MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01.

ENVIRON monitoring wells: MW-168S.

Cis-1,2 DCE

Cis-1,2 DCE concentrations were reported in exceedance of the IDEM RISC IDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-9S

Michigan Plaza and Vicinity: MMW-P-06.

Cis-1,2 DCE concentrations were reported in exceedance of the IDEM RISC RDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01, MMW-P-08, and MMW-P-12S.

ENVIRON monitoring wells: MW-168S.

VC

VC concentrations were reported in exceedance of the IDEM RISC IDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-8S, MMW-9S, and MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, and MMW-P-12S.

Floral Park Cemetery: MMW-C-01 and MMW-P-11S.

ENVIRON monitoring wells: MW-168S.

VC concentrations were reported in exceedance of the IDEM RISC RDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-12S.

2.2.2 Deep Monitoring Well Network Summary

PCE

PCE was not identified at concentrations in exceedance of the associated IDEM RISC IDCL or RDCL within deep wells across the study area.

TCE

TCE was not identified at concentrations in exceedance of the associated IDEM RISC IDCL or RDCL within deep wells across the study area.

Cis-1,2 DCE

Cis-1,2 DCE concentrations were reported in exceedance of the IDEM RISC RDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-4D, MMW-11D, MMW-13D, and MMW-14D.

Michigan Plaza and Vicinity: MMW-P-12D.

ENVIRON monitoring wells: MW-167D.

VC

VC concentrations were reported in exceedance of the IDEM RISC IDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-4D, MMW-6D, MMW-13D, and MMW-14D.

Michigan Plaza and Vicinity: MMW-P-03D, MMW-P-09D, MMW-P-10D, and MMW-P-12D.

Floral Park Cemetery: MMW-C-02D, MMW-C-16D, MMW-P-11DR, MMW-P-13D, and MMW-P-14D.

ENVIRON monitoring wells: MW-167D, MW-168D, and MW-170D.

VC concentrations were reported in exceedance of the IDEM RISC RDCL in the following monitoring wells:

Maple Creek Village Apartments: MMW-15D.

Floral Park Cemetery: MMW-C-17D.

The deep monitoring wells MMW-4D, MMW-11D, and MMW-13D located at the Maple Creek Village Apartment Complex exhibited cis-1,2-DCE groundwater concentrations exceeding the RISC RDCL. These wells also either currently exhibit or have historically exhibited vinyl chloride exceedances above IDCLs. Since these wells have been purposefully located hydraulically upgradient of all three ***Chemical Source Areas***, the impacts observed in these wells demonstrate groundwater impacts that are attributable to other upgradient, off-site sources and not to Michigan Plaza. The locations of all three ***Chemical Source Areas*** are presented on **Figure 1**. As seen on **Figure 5** the indicator compound concentrations at the deep, upgradient wells MMW-4D, MMW-11D, and MMW-13D can be considered as "background levels" defined as the concentration of contaminants from the Genuine source coming into the deeper aquifer in this area.

Based on a review of the ENVIRON *Remedial Progress Report* dated June 2012, which summarizes March 2012 sampling activities for Genuine Parts associated with VRP Site No. 6991004, groundwater sampling has identified the following RISC IDCL exceedances:

- TCE: MW-10-1R, MW-148R; MW-152, MW-153, MW-156, MW-163, MW-173;
- Cis-1,2-DCE: MW-166D; and
- Vinyl chloride: MW-165D, MW-166D.

The exceedances identified in the ENVIRON monitoring well network are further reinforced by exceedances detected along the northern property boundary this quarter from MUNDELL wells MMW-4D and MMW-6D, in addition to wells MMW-11D and MMW-13D, located further downgradient of the property boundary, but north of the Michigan Plaza ***Chemical Source Areas***. Annual sampling at MUNDELL well MMW-5D confirms the elevated concentrations that have migrated onto the apartment complex over the years (see **Figure 6**).

2.3 In-Situ Bioremediation Progress

Based upon:

1) The extent and severity of the indicator compound concentrations and trends;
2) Site-specific operational constraints and uses;
3) Geochemical and physical characteristics of the aquifer; and
4) Economic factors;

In-situ bioremediation with CAP 18™ and CAP 18 ME™, followed by Monitored Natural Attenuation (MNA) is the appropriate remediation technology being used for the Site for treating groundwater, as detailed in the *RWP*. The initial CAP 18™ injection was performed in each of the three source areas in August 2007 using a direct push Geoprobe system. Locations and spacing of the injection points were designed to address the sewer line related ***Chemical Source Areas*** and provide injection locations in each ***Chemical Source Area***. The anticipated downgradient migration of the initial CAP 18™ was expected to remediate the most significant groundwater impacts.

A booster CAP 18 ME™ injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations began to stabilize or were decreasing at a slow rate. During this current quarter, no additional CAP 18 ME™ injections have been performed. A *Revised Work Plan for Third Round of CAP 18 ME™ Injections* dated July 22, 2011, was approved by IDEM on August 22, 2011. Subsequent to the submittal of the report, however, data collected with the additional delineation in the area identified additional pockets of source material, therefore requiring the footprint of injection to be expanded. This third injection event was delayed by IDEM pending receipt and review of results from the 2011 delineation and investigation activities in the area. On May 2, 2012, MUNDELL submitted a second revised injection plan that added a few more injection locations. In a letter dated March 22, 2013, IDEM responded to MUNDELL's revised work plan. The specific comments in IDEM's letter have been addressed in a response letter (to be submitted under separate cover) in order to proceed with the third CAP 18 ™ injection event at the Site as soon as possible. A copy of the letter is provided in **Appendix C**.

The cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 4**. Groundwater analytical results are attached in **Appendix A**.

Indicator Chemical Trends

A group of monitoring wells from the sampling network is utilized to monitor dissolved indicator compound concentration trends over time at various locations within the heart of the three ***Chemical Source Areas***. Graphs of historical PCE, TCE, cis-1,2-DCE and vinyl chloride concentrations are presented in **Figure 6** for the following monitoring wells:

Source Area A: MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-11S, MMW-P-11DR, and MMW-C-01;

Source Area B: MMW-P-01, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-10S, MMW-P-10D, MMW-8S; MMW-P-12S, and MMW-P-12D; and

Source Area C: MMW-1S, MMW-9S, and MMW-10S.

Figures 6 and 7 illustrate the changes in the chlorinated solvent concentrations demonstrating reductive dechlorination as a result of the CAP 18 ME™ remediation implementation. To illustrate the effect of the CAP 18 ME™ injections on dissolved chlorinated concentrations, injection dates are included on the graphs.

2.3.1 Source Area A

PCE

The data associated with well MMW-P-11S shows that PCE concentrations in exceedance of the RISC IDCL are present south of the sewer line along the west side of the strip mall property in the shallow zone. This relationship is a good indicator of groundwater flow direction being to the south; if it were more to the southwest, PCE would have been seen in MMW-P-13S/D. PCE was detected above the RDCL in MMW-P-04 and MMW-C-01. PCE was not detected above the laboratory reporting limit in indicator wells MMW-P-02, MMW-P-03S, MMW-P-03D, and MMW-P-11DR located near ***Source Area A***. To the southeast of the source area, PCE concentrations which had been generally declining since the initial August 2007 CAP 18™ injections and the following February 2009 CAP 18 ME™ injections currently indicate rebounding due to its return in MMW-P-04 and MMW-C-01.

TCE

TCE was not detected above the laboratory reporting limit in ***Source Area A*** indicator wells.

Cis-1,2-DCE

Cis-1,2-DCE concentrations increased in wells MMW-P-03S and MMW-P-04 and remaining relatively unchanged in MMW-P-11DR and MMW-P-02. Concentrations were detected in those wells but did not exceed the RDCL. It was not detected in shallow well MMW-P-11S, MMW-C-01 or deep well MMW-P-03D.

VC

VC concentrations increased in ***Source Area A*** indicator wells MMW-P-03S, MMW-P-03D, MMW-P-04, and MMW-P-11DR. VC levels have decreased in MMW-P-02 and MMW-C-01. Concentrations remained above the IDCL in each of the **Source Area A** wells.

While MNA Indicator parameters indicating reducing conditions have been established over the years with associated sulfate reduction, increased ethene generation, and apparent methanogenisis (e.g., MMW-P-03S, MMW-P-03D),

resulting in stable to decreasing trends are noted in MMW-P-03S since the third quarter of 2012.

Generation of both cis-1,2-DCE and vinyl chloride as byproducts of PCE reductive dechlorination appears to have slowed in portions of ***Source Area A*** over the last several quarters. Also, the presence of PCE in the area appears to confirm that the reductive dechlorination processes are waning in some areas and that an additional injection is required to re-establish effective dechlorination conditions.

2.3.2 Source Area B

PCE

PCE concentrations remain at levels above the RISC RDCL in the vicinity of MMW-P-01, located immediately downgradient of sewer line source areas identified during soil investigation activities completed during 2005. PCE was also detected in MMW-8S at a concentration slightly above the RISC RDCL. PCE was not detected in any of the other wells in ***Source Area B***, although elevated reporting limits were required for PCE in MMW-P-06 associated with elevated concentrations of cis-1,2-DCE and VC that were detected in the sample.

TCE

TCE concentrations remained essentially unchanged at levels above the RDCL at MMW-P-01. TCE was not detected in any of the other wells in ***Source Area B***.

Cis-1,2-DCE

Elevated cis-1,2-DCE levels in exceedance of the RISC IDCL are identified in MMW-P-06, though the concentration decreased from 4Q12. Cis-1,2-DCE levels (that exceed the RISC RDCL) decreased somewhat in the MMW-P-12S/D well pair as well as MMW-P-01. Cis-1,2-DCE levels increased in MMW-P-08 to levels above the RDCL. It remains below the RISC RDCL in MMW-8S, MMW-P-07, and MMW-P-10D. It is not detected above laboratory reporting limits in wells and MMW-P-05 and MMW-P-10S.

VC

Elevated VC levels in exceedance of the RISC IDCL are identified in each indicator well, with exception of MMW-P-10S, in which VC was not detected. Increases are noted in MMW-8S, MMW-P-05, and MMW-P-08. Decreases are noted in MMW-P-01, MMW-P-06, MMW-P-07, MMW-P-10D, MMW-P-12S, and MMW-P-12D.

Indicator compound concentration trends in the vicinity of ***Source Area B*** indicate that in certain areas (*e.g.*, MMW-P-07) reductive dechlorination processes have consumed PCE and TCE while generating daughter products (cis-1,2 DCE, VC) in the saturated zone. MNA Indicator parameters also indicate reducing conditions have been established over the years and sulfate reduction and methanogenesis are occurring (*e.g.*, MMW-8S, MMW-P-05, MMW-P-06). However, there are some areas where stagnation now appears to be occurring (*e.g.*, in MMW-P-01 and MMW-P-10D).

2.3.3 Source Area C

PCE

The PCE concentration continues to show increasing trends in indicator well MMW-1S and remains above the IDCL. PCE levels in MMW-9S and MMW-10S also increased and are above the RDCL. Sampling south of Michigan Street indicates this impact is detected in ENVIRON well MW-168S.

TCE

The TCE concentration at MMW-1S remained in exceedance of the RISC RDCL. Additionally, the TCE footprint, which was previously noted as rebounding since the third quarter 2012 sampling event, continues to encompass MMW-9S and MMW-10S at levels above the RDCL. Concentrations in both of those wells increased during the past quarter.

Cis-1,2-DCE

Cis-1,2-DCE was reported at concentrations above the IDCL in MMW-9S and above the RDCL in MMW-10S, at similar levels relative to 4Q12. It was once again detected slightly above the laboratory reporting limit in MMW-1S.

VC

VC concentrations at ***Source Area C*** indicator well locations MMW-9S and MMW-10S decreased slightly but are essentially similar to 4Q12 levels, and remain above the IDCL. The concentration in MMW-1S was below the reporting limit for the second consecutive quarter.

MNA Indicator parameters also indicate reducing conditions have been established over the years with associated sulfate reduction, ethene generation, and apparent methanogenisis. (*e.g.*, see MMW-9S and MMW-10S). However, ethene concentrations are falling off from previously higher levels. Also noted are

decreasing levels of lactic acid in these wells, suggesting that the fermented material in the area provided by the carbon substrate is decreasing, which in turn suggests available hydrogen for reductive dechlorination processes to continue may be decreasing.

The increasing PCE and TCE concentrations observed near ***Source Area C***, and the decreasing rates of daughter product generation observed in the vicinity since 2011 indicate the need for a third CAP18 ME™ injection event. MUNDELL submitted to IDEM a modified injection plan for this booster injection event has previously been approved by IDEM. MUNDELL has responded to IDEM's comments to the modified plan and hopes to proceed with the injections in the second quarter of 2013.

In conclusion, because reductive dechlorination processes appear to have slowed over the last several quarters, as evidenced by rebounding PCE and TCE concentrations and reduced generation of breakdown products (cis-1,2-DCE and vinyl chloride) in selected locations, additional CAP18 ME™ injections in ***Source Areas A, B*** and ***C*** are recommended, and MUNDELL is in the process of obtaining final approval for such injections from IDEM. As noted above, MUNDELL hopes to proceed with the third CAP 18 ME™ injection event at the Site in the second quarter of 2013.

The cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 4**. Groundwater analytical results are attached in **Appendix A**.

2.4 Soil Analytical Results

Based on soil analytical results, adsorbed PCE in excess of the associated IDEM 2009 RISC Industrial Direct Contact level is present in MMW-P-02-A and SB-101; in excess of the associated IDEM 2009 RISC Industrial Default Cleanup Level in MMW-10S-A; and in excess of the associated IDEM 2009 RISC Residential Default Cleanup Level in MMW-P-02A and MMW-P-04-A.

Adsorbed TCE in excess of the associated IDEM 2009 RISC IDCL is present in MMW-P-02-A; adsorbed TCE in excess of the associated IDEM 2009 RISC RDCL is present in SB-101.

Adsorbed cis-1,2-DCE in excess of the associated IDEM 2009 RISC RDCL is present in MMW-09S-A, MMW-14D-A, MMW-P-02-A, MMW-P-07-A, and SB-103.

Adsorbed VC in excess of the associated IDEM 2009 RISC IDCL is present in MMW-09S-A, MMW-P-07-A, MMW-P-10D-A, and SB-101. Adsorbed VC in excess of the associated IDEM 2009 RISC IDCL is present in MMW-10S-A, MMW-13D-A, MMW-14D-A, SB-100, and SB-103.

Laboratory certificates of analysis for the soil samples are presented in **Appendix A**. Cumulative soil analytical results are summarized in **Table 5**. A map that depicts the March 2013 soil boring results is provided as **Figure 8**. To minimize clutter on the map, the "–A" suffix boring offsets to pre-existing monitoring wells are not labeled or depicted; they were located approximately 3 to 4 feet from the associated well.

Boring logs are provided in **Appendix D**.

2.5 Indoor Air Mitigation Systems Performance

Four sub-floor slab depressurization units were installed by *Air Quality Control (AQC)* under the oversight of MUNDELL in September 2006. Three additional sub-floor slab depressurization units were installed by AQC under the oversight of MUNDELL on March 19 and 26, 2008.

Unit/blowers were installed in the following spaces at Michigan Plaza: 1) the Village Pantry (B1); 2) the former Tire Shop space (currently now leased a veterinarian facility) (B2); 3) the Arca de Salvacion (B3); and 4) the laundromat (Michigan Plaza Family Laundry) (B4). The systems installed at the Maple Creek Village Apartments are: Building No. 1, Basement Apartment 101 (B5); Building No. 6, Basement Apartment 602 (B6); and Building No. 10, Basement Apartment 1001 (B7). The system locations are illustrated on **Figure 9**.

Since the time of installation, system stack air samples were collected weekly during October 2006, followed by bi-weekly sampling during November and December 2006, monthly throughout 4th quarter, 2006, and then on a quarterly basis thereafter. PID readings have also been concurrently measured in each of the stacks. The historical PCE concentration trends and cumulative pounds of PCE and total contaminants removed by each of the systems (B1 through B7) are summarized in **Figures 10** through **18**.

As of the end of the 4th quarter of 2012, approximately 28.21 *pounds* of total chlorinated solvents, including *17.73 pounds* of PCE, have been removed at the *Maple Creek Village Apartments property* (subfloor depressurization systems B5, B6 and B7); and approximately *117.42 pounds* of total chlorinated solvents, including 102.*81 pounds* of PCE, have been removed at the *Michigan Plaza property* (subfloor depressurization systems B1, B2, B3 and B4). The associated calculations are provided in **Appendix E**. A concentration of half the PQL (practical quantitation limit) is assumed for the indicator compounds demonstrating concentrations below the laboratory PQL, with the exception of vinyl chloride where an average concentration of 0.015 parts per million vapor (PPMV) (derived from the J flag values for vinyl chloride concentrations below PQL) is used for calculation purposes.

Overall, decreases in PCE concentrations have been noted in all mitigation systems going back to at least May 2009. In the past two quarters, PCE concentrations in B1 (Unit 3801) have slightly increased and PCE concentrations in B5 (Building 1) showed a slight increase this quarter. Concentrations in B2 (Unit 3811), and B3 (Unit 3819) appear to have begun to level off after steadily increasing since January 2012. PCE concentrations in mitigation system B4 have decreased by an order of magnitude since air monitoring was initiated. Air mitigation systems B1, B2, B3, B5, and B6 have also shown generally declining PCE concentrations, with reduction of PCE concentrations by approximately 500 to 5000 ug/m^3 since air monitoring was initiated.

3.0 FUTURE ACTIONS

MUNDELL will continue to conduct groundwater monitoring at the Site and provide results to IDEM on a quarterly basis. As specified in paragraph 5 of the March 22, 2013 IDEM letter, quarterly reports are to be submitted approximately 60 days after the sampling event is completed.

A response letter to IDEM comments associated with their review of the most recent injection workplan will be submitted under separate cover to IDEM.

In addition, MUNDELL remains concerned about the Genuine Parts contamination that continues to migrate onto the Site. As set forth in Section 2.2.2, multiple monitoring wells upgradient of the Maple Creek Village and Michigan Plaza properties show VOC concentrations at levels in excess of residential and commercial standards. Based on a review of the March 2012 ENVIRON report, VRP Tier II cleanup levels were established at the Genuine Parts site based upon the presumption that cleanup to Residential Cleanup Goals (RCGs) was not likely because of the presence of off-site sources (interpreted to mean source areas associated with Michigan Plaza). MUNDELL points out that source areas associated with Michigan Plaza are located well to the south of the property boundary of the Genuine Parts facility. Accordingly, there appears to be no reason why Genuine Parts could not achieve RCGs at the aforementioned wells. Nevertheless, if IDEM is not going to require a more thorough remedial response for the remaining groundwater impacts migrating from Genuine Parts onto the Maple Creek Village property, concentrations coming onto the Maple Creek Village and passing into the remedial area for Michigan Plaza (*e.g.*, in upgradient wells MMW-11D, MMW-13D, MMW-14D, MW-165D, MW-166D, MMW-4D and MMW-5D) will be used as 'background concentrations' that will aid in distinguishing between the Michigan Plaza source impacts and the Genuine Site impacts, and ultimately will be used to support the setting of target cleanup goals for the deeper portion of the surficial aquifer at the Michigan Plaza site.

MUNDELL will continue to develop the Remediation Work Plan (RWP) during this quarter which will detail the long-term remedial objectives for this project. As part of the RWP, a contingency plan will be included in the event movement of VC towards the impacted

residential neighborhood is identified. This RWP will be submitted to IDEM no later than September 18, 2013 (within 180 days from the date of March 22, 2013 IDEM letter).

We appreciate the opportunity to update IDEM on the progress of remedial activities and monitoring at the Site. If you have any questions, please do not hesitate to contact us at (317) 630-9060 or via email (jmundell@MundellAssociates.com; mbreting@mundellassociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.

Matthew Bono
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Attachments: Tables
Figures
Appendices

cc: Mr. Peter Cappel, AMMH

TABLES

Table 1	Groundwater Level Measurements
Table 2	Monitoring Well Groundwater Analytical Results – 1st Quarter 2013
Table 3	Cumulative Monitoring Well Groundwater Analytical Results
Table 4	Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Table 5	Cumulative Soil Analytical Results

Table 1
Tabulated Water Level Measurements and Monitoring Well Construction Data
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
Monitoring Wells (Plaza)								
Shallow Wells								
MMW-P-01	3/1/2013	715.26	28	18.0	-	28.0	18.26	697.00
MMW-P-02	3/1/2013	716.09	30	20.0	-	30.0	19.21	696.88
MMW-P-03S	3/1/2013	715.95	28	18.0	-	28.0	19.10	696.85
MMW-P-04	3/1/2013	716.04	28	18.0	-	28.0	19.03	697.01
MMW-P-05	3/1/2013	715.55	28	18.0	-	28.0	18.59	696.96
MMW-P-06	3/1/2013	716.14	28	18.0	-	28.0	19.15	696.99
MMW-P-07	3/1/2013	714.90	28	18.0	-	28.0	17.48	697.42
MMW-P-08	3/1/2013	714.53	28	18.0	-	28.0	17.14	697.39
MMW-P-09S	3/1/2013	714.80	28	18.0	-	28.0	19.04	695.76
MMW-P-10S	3/1/2013	714.35	28	18.0	-	28.0	17.03	697.32
MMW-P-12S	3/1/2013	715.83	26	16.0	-	26.0	17.95	697.88
Deep Wells								
MMW-P-03D	3/1/2013	716.02	35	25.0	-	35.0	19.11	696.91
MMW-P-09D	3/1/2013	714.82	45	35.0	-	45.0	19.01	695.81
MMW-P-10D	3/1/2013	714.42	38	28.0	-	38.0	17.31	697.11
MMW-P-12D	3/1/2013	715.33	36.5	31.5	-	36.5	17.38	697.95
Monitoring Wells (Apartments)								
Shallow Wells								
MMW-1S	3/1/2013	712.92	20	10.0	-	20.0	15.26	697.66
MMW-2S	3/1/2013	712.95	20	10.0	-	20.0	14.93	698.02
MMW-3S	3/1/2013	710.20	30	18.0	-	28.0	12.09	698.11
MMW-7S	3/1/2013	712.09	26	12.0	-	22.0	13.68	698.41
MMW-8S	3/1/2013	714.24	24	14.0	-	24.0	16.29	697.95
MMW-9S	3/1/2013	713.71	25	15.0	-	25.0	16.50	697.21
MMW-10S	3/1/2013	712.69	25	15.0	-	25.0	15.51	697.18
MMW-11S	3/1/2013	713.17	24	14.0	-	24.0	15.44	697.73
MMW-12S	3/1/2013	712.15	24	14.0	-	24.0	14.60	697.55
MMW-15S	3/1/2013	713.36	32	22.0		32.0	15.39	697.97
Deep Wells								
MMW-4D	3/1/2013	711.29	66	56.0	-	66.0	13.11	698.18
MMW-5D	3/1/2013	711.27	51	36.0	-	46.0	12.98	698.29
MMW-6D	3/1/2013	712.40	51	39.0	-	49.0	14.16	698.24
MMW-11D	3/1/2013	713.33	33	23.0	-	33.0	15.28	698.05
MMW-13D	3/1/2013	713.28	50	35.0	-	50.0	15.26	698.02
MMW-14D	3/1/2013	712.41	50	40.0	-	50.0	14.43	697.98
MMW-15D	3/1/2013	713.08	39	34.0		39.0	15.01	698.07
Floral Park Cemetery Monitoring Wells (Off-Site)								
Shallow Wells								
MMW-C-01	3/1/2013	715.73	28	18.0	-	28.0	18.86	696.87
MMW-C-02S	3/1/2013	714.64	28	18.0	-	28.0	18.39	696.25
MMW-C-16S	3/1/2013	717.32	25.9	15.9		25.9	20.81	696.51
MMW-P-11S	3/1/2013	716.42	26	16.0	-	26.0	19.57	696.85
MMW-P-13S	3/1/2013	713.83	26	16.0	-	26.0	16.91	696.92
MMW-P-14S	3/1/2013	714.50	28	18.0		28.0	17.25	697.25
Deep Wells								
MMW-C-02D	3/1/2013	713.90	36	31.0		36.0	17.63	696.27
MMW-C-16D	3/1/2013	717.27	40	35.0		40.0	20.75	696.52
MMW-C-17D	3/1/2013	714.57	38.7	33.7		38.7	19.55	695.02
MMW-P-11DR	3/1/2013	715.63	33	28.0		33.0	18.77	696.86
MMW-P-13D	3/1/2013	713.57	33	28.0		33.0	16.66	696.91
MMW-P-14D	3/1/2013	714.76	34	29.0		34.0	18.13	696.63

Table 1
Tabulated Water Level Measurements and Monitoring Well Construction Data
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
ENVIRON Monitoring Wells (Off-Site)								
Shallow Wells								
MW-166S	3/1/2013	712.70	20	10.0		20.0	14.47	698.23
MW-167S	3/1/2013	716.07	22	12.0	-	22.0	17.92	698.15
MW-168S	3/1/2013	714.58	22	12.0	-	22.0	17.24	697.34
MW-169S	3/1/2013	715.92	25	15.0	-	25.0	19.50	696.42
MW-170S	3/1/2013	717.14	27	17.0	-	27.0	20.01	697.13
MW-171S	3/1/2013	711.58	22	12.0	-	22.0	15.20	696.38
MW-174S	3/1/2013	717.78	24	14.0		24.0	19.97	697.81
MW-175S	3/1/2013	718.66	25	15.0		25.0	20.81	697.85
Deep Wells								
MW-166D	3/1/2013	712.49	51	46.0		51.0	14.25	698.24
MW-167D	3/1/2013	715.61	33	28.0	-	33.0	17.51	698.10
MW-168D	3/1/2013	714.46	31	26.0	-	31.0	17.20	697.26
MW-169D	3/1/2013	715.69	37	32.0	-	37.0	19.29	696.40
MW-170D	3/1/2013	717.07	39	34.0	-	39.0	19.94	697.13
MW-171D	3/1/2013	711.62	49	44.0	-	49.0	15.47	696.15
MW-174D	3/1/2013	717.72	48	43.0		48.0	19.92	697.80
MW-175D	3/1/2013	718.75	41	37.0		42.0	20.71	698.04
U.S. EPA Monitoring Wells (Off-Site)								
Shallow Wells								
MW-WES-01a	3/1/2013	716.13	37.5	32.5		37.5	18.51	697.62
MW-WES-02a	3/1/2013	716.24	29	24		29	18.75	697.49
MW-WES-03a	3/1/2013	717.42	35	30		35	21.12	696.30
MW-WES-04a	3/1/2013	717.85	35	30		35	20.07	697.78
MW-WES-05a	3/1/2013	717.04	25	20		25	17.98	699.06
Intermediate/Deep Wells								
MW-WES-01b	3/1/2013	716.05	46	41		46	19.16	696.89
MW-WES-01c	3/1/2013	715.96	55	50		55	19.10	696.86
MW-WES-02b	3/1/2013	716.28	40	35		40	19.12	697.16
MW-WES-02c	3/1/2013	716.23	50	40		50	19.03	697.20
MW-WES-03b	3/1/2013	717.41	45	40		45	21.18	696.23
MW-WES-04b	3/1/2013	717.85	45	40		45	19.91	697.94
MW-WES-05b	3/1/2013	716.60	37.5	32.5		37.5	18.50	698.10
MW-WES-05c	3/1/2013	715.95	50	45		50	18.90	697.05
Little Eagle Creek Stream Gauge Locations								
Location ID	**Date of Water Level**	**Top of Stream Gauge Elevation (Feet MSL)**					**Water Surface Gauge Elevation (Feet MSL)**	**Water Surface Elevation (Feet MSL)**
SG-1	3/1/2013	701.78					0.76	698.54
SG-2	NG	698.85					NG	NG

Notes:
1) All Top of Casing (TOC) data was obtained from or referenced to the Unified U.S. EPA Elevation Survey completed on October 13, 2011.
2) NG = Not Gauged;

Table 2
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
Monitoring Wells (Apts)							
Shallow Wells							
MMW-1S	2/28/2013	477	20.5	6.6	<5.0	<5.0	<2.0
MMW-8S	2/28/2013	6.2	<5.0	9.4	<5.0	<5.0	152
MMW-9S	2/28/2013	11.5	9.2	1,990	48.6	<5.0	843
MMW-10S	2/28/2013	41.8	25.5	294	9.2	<5.0	273
MMW-11S	3/4/2013	<5.0	<5.0	5.2	<5.0	<5.0	<2.0
MMW-12S	3/4/2013	<5.0	<5.0	42.8	<5.0	<5.0	2.3
MMW-15S	3/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-4D	3/5/2013	<5.0	<5.0	396	<5.0	<5.0	202
MMW-6D	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	61.1
MMW-11D	3/4/2013	<5.0	<5.0	221	18.9	<5.0	<2.0
MMW-13D	3/4/2013	<5.0	<5.0	374	<5.0	<5.0	21.7
MMW-14D	3/4/2013	<5.0	<5.0	983	16.2	<5.0	96.4
MMW-15D	3/6/2013	<5.0	<5.0	10	<5.0	<5.0	2.7

Table 2
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
Monitoring Wells (Plaza)							
Shallow Wells							
MMW-P-01	3/4/2013	24.4	12.4	527	12.9	<5.0	2,810
MMW-P-02	3/4/2013	<5.0	<5.0	52.5	<5.0	<5.0	347
MMW-P-03S	3/4/2013	<5.0	<5.0	49.4	<5.0	<5.0	124
MMW-P-04	3/9/2013	28.2	<5.0	50.1	<5.0	<5.0	6.1
MMW-P-05	3/4/2013	<5.0	<5.0	<5.0	<5.0	<5.0	173
MMW-P-06	3/4/2013	<50.0	<50.0	2,230	<50.0	<50.0	5,010
MMW-P-07	3/4/2013	<5.0	<5.0	23.9	<5.0	<5.0	386
MMW-P-08	3/4/2013	<5.0	<5.0	111	<5.0	<5.0	934
MMW-P-09S	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10S	2/28/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-12S	3/9/2013	<5.0	<5.0	505	18.0	<5.0	63.0
Deep Wells							
MMW-P-03D	3/4/2013	<5.0	<5.0	<5.0	<5.0	<5.0	51.7
MMW-P-09D	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	96.4
MMW-P-10D	2/28/2013	<5.0	<5.0	8.9	<5.0	<5.0	181
MMW-P-12D	3/9/2013	<5.0	<5.0	619	20.6	<5.0	71.4

Table 2
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
Floral Park Monitoring Wells (Off-site)							
Shallow Wells							
MMW-C-01	3/5/2013	17.5	<5.0	<5.0	<5.0	<5.0	10.1
MMW-C-02S	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-16S	3/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-11S	3/6/2013	703	<5.0	<5.0	<5.0	<5.0	18.8
MMW-P-13S	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14S	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-C-02D	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	162
MMW-C-16D	3/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	316
MMW-C-17D	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	2.1
MMW-P-11DR	3/6/2013	<5.0	<5.0	10.6	<5.0	<5.0	201
MMW-P-13D	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	140
MMW-P-14D	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	32.3

Table 2
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
Keramida/ENVIRON Monitoring Wells (Off-Site)							
Shallow Wells							
MW-167S	3/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-168S	3/8/2013	76.0	11.7	75.7	<5.0	<5.0	57.1
MW-170S	3/8/2013	<5.0	<5.0	7.9	<5.0	<5.0	<2.0
Deep Wells							
MW-167D	3/8/2013	<5.0	<5.0	382	19.1	<5.0	13.5
MW-168D	3/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	80.5
MW-170D	3/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	76.9

Notes:

Exceedances of IDEM RISC Industrial Default Cleanup Level in RED
Exceedances of IDEM RISC Residential Default Cleanup Level in BLUE
PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene
NS = Not Sampled
NA = Not Analyzed
All analytical results presented in micrograms per liter (ug/L).

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
Monitoring Wells (Apts)							
Shallow Wells							
MMW-1S	9/10/2004	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	4.1
	3/15/2005	150	10.0	< 5.0	< 5.0	< 5.0	< 2.0
	11/9/2005	130	8.3	<5.0	<5.0	<5.0	8.9
	9/5/2006	200	13.0	<5.0	<5.0	<5.0	4.6
	2/22/2007	220	14.9	<5.0	<5.0	<5.0	<2.0
	6/14/2007	240	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	362	10.5	<5.0	<5.0	31.6	<2.0
	12/13/2007	330	8.1	<5.0	<5.0	27.0	<2.0
	3/21/2008	280	14.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	277	13.2	<5.0	<5.0	<5.0	<2.0
	9/11/2008	288	14.7	<5.0	<5.0	<5.0	<2.0
	11/20/2008	223	45.5	169	<5.0	<5.0	14.5
	3/16/2009	199	11.3	<5.0	<5.0	<5.0	<2.0
	6/16/2009	237	13.4	<5.0	<5.0	<5.0	<2.0
	8/5/2009	195	22.9	71.3	<5.0	<5.0	9.3
	11/2/2009	189	39.0	119	<5.0	<5.0	26.6
	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
	4/22/2010	206	14.7	<5.0	<5.0	<5.0	<2.0
	7/21/2010	310	21.8	<5.0	<5.0	<5.0	<2.0
	10/12/2010	89.4	21.3	208	<5.0	<5.0	32.2
	1/19/2011	217	46.2	35.4	<5.0	<5.0	21.8
	5/4/2011	449	22.7	12.1	<5.0	<5.0	<2.0
	7/28/2011	334	20.3	8.1	<5.0	<5.0	2.1
	10/19/2011	136	66.0	75.3	<5.0	<5.0	14.3
	2/14/2012	219	9.7	<5.0	<5.0	<5.0	<2.0
	4/25/2012	270	11.2	34.2	<5.0	<5.0	39.0
	8/2/2012	292	27.9	<5.0	<5.0	<5.0	28.5
	11/15/2012	413	20.0	5.1	<5.0	<5.0	<2.0
	2/28/2013	477	20.5	6.6	<5.0	<5.0	<2.0
MMW-2S	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	9/5/2006	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	2/22/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/23/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-3S	8/26/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	5.2	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	28.0	5.4	<5.0	<5.0	<2.0
	9/5/2006	<5.0	23.0	7.4	<5.0	<5.0	<2.0
	2/22/2007	<5.0	20.6	8.5	<5.0	<5.0	<2.0
	6/2/2008	<5.0	20.2	7.9	<5.0	<5.0	2.8
	6/15/2009	<5.0	15.3	11.7	<5.0	<5.0	3.0
	4/20/2010	<5.0	15.9	8.0	<5.0	<5.0	<2.0
	5/4/2011	<5.0	12.4	12.4	<5.0	<5.0	4.4
	4/23/2012	<5.0	9.9	5.8	<5.0	<5.0	<2.0
MMW-7S	8/24/2004	<5.0	<5.0	28.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	8.5	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	9.5	<5.0	<5.0	<2.0
	9/5/2006	<5.0	<5.0	5.8	<5.0	<5.0	4.5
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/4/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-8S	2/22/2007	114	<5.0	289	13.8	<5.0	40.6
	6/14/2007	15.9	<5.0	364	9.5	<5.0	82.1
	9/19/2007	<5.0	<5.0	778	24.6	<5.0	145
	12/13/2007	7.7	<5.0	1,000	7.4	<5.0	586
	3/20/2008	<5.0	<5.0	470	<5.0	<5.0	330
	6/6/2008	<5.0	<5.0	336	<5.0	<5.0	509
	9/10/2008	<5.0	<5.0	275	<5.0	<5.0	322
	11/20/2008	<5.0	<5.0	123	<5.0	<5.0	584
	3/16/2009	<5.0	<5.0	95.0	<5.0	<5.0	348
	6/16/2009	<5.0	<5.0	94.3	6.1	<5.0	280
	8/5/2009	<5.0	<5.0	83.8	<5.0	<5.0	261
	11/2/2009	<5.0	<5.0	58.3	<5.0	<5.0	277
	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
	4/22/2010	<5.0	<5.0	9.0	<5.0	<5.0	151
	7/21/2010	6.2	<5.0	14.9	<5.0	5.0	230
	10/12/2010	8.4	<5.0	5.4	<5.0	<5.0	158
	1/19/2011	14.1	<5.0	<5.0	<5.0	<5.0	172
	4/30/2011	677	19.5	37.2	<5.0	<5.0	108
	7/28/2011	19.4	<5.0	29.0	<5.0	<5.0	130
	10/24/2011	7.9	<5.0	9.9	<5.0	<5.0	200
	2/14/2012	<5.0	<5.0	12.6	<5.0	<5.0	148
	4/25/2012	<5.0	<5.0	15.6	<5.0	<5.0	90.6
	8/2/2012	5.1	<5.0	8.5	<5.0	<5.0	139
	11/15/2012	6.8	<5.0	10.0	<5.0	<5.0	127
	2/28/2013	6.2	<5.0	9.4	<5.0	<5.0	152
MMW-9S	2/22/2007	782	88.6	78.9	<5.0	<5.0	<2.0
	6/14/2007	858	85.7	65.3	<5.0	<5.0	<2.0
	9/20/2007	1,430	112	70.3	8.2	<5.0	<2.0
	12/12/2007	<50.0	<50.0	1,700	<50.0	<50.0	<20.0
	3/21/2008	57.0	20.0	2,900	39.0	<5.0	16.0
	6/6/2008	52.9	28.0	1,540	38.2	<5.0	295
	9/10/2008	52.6	22.7	4,920	94.5	<5.0	167
	11/20/2008	<5.0	<5.0	5,820	90.2	<5.0	1,010
	3/16/2009	<50.0	<50.0	7,490	73.8	<50.0	1,800
	6/16/2009	44.5	24.9	4,810	64.0	<5.0	876
	8/5/2009	<5.0	<5.0	5,010	64.2	<5.0	1,110
	11/2/2009	<5.0	<5.0	5,410	120	<5.0	1,050
	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
	4/22/2010	<5.0	<5.0	4,300	77.1	<5.0	1,710
	7/21/2010	<50.0	<50.0	2,910	73.2	<50.0	2,020
	10/12/2010	<50.0	<50.0	2,430	<50.0	<50.0	1,270
	1/19/2011	<50.0	<50.0	1,580	136	<50.0	1,490
	5/4/2011	11.1	13.4	2,900	71.7	<5.0	1,350
	7/27/2011	<5.0	<5.0	933	32.0	<5.0	747
	10/24/2011	<5.0	<5.0	2,330	92.8	<5.0	694
	2/14/2012	<25.0	<25.0	2,040	60.8	<25.0	1,140
	4/25/2012	<5.0	<5.0	1,180	30.1	<5.0	753
	8/2/2012	<5.0	<5.0	667	30.2	<5.0	667
	11/14/2012	9.8	5.0	2,000	58.0	<5.0	893
	2/28/2013	11.5	9.2	1,990	48.6	<5.0	843

Table 3
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Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-10S	2/22/2007	49.6	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	77.6	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	66.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	124	56.0	149	<5.0	<5.0	<2.0
	3/21/2008	440	12.0	8.1	<5.0	<5.0	12.0
	6/6/2008	541	62.1	218	<5.0	<5.0	30.4
	9/10/2008	6.9	<5.0	353	8.2	<5.0	<2.0
	11/20/2008	<5.0	<5.0	212	<5.0	<5.0	15.9
	3/16/2009	<5.0	<5.0	302	<5.0	<5.0	114
	6/16/2009	22.8	15.4	415	12.0	<5.0	81.4
	8/5/2009	<5.0	<5.0	224	5.5	<5.0	156
	11/2/2009	12.8	10.1	239	5.6	<5.0	119
	2/3/2010	8.3	7.5	180	5.1	<5.0	148
	4/22/2010	<5.0	7.9	165	<5.0	<5.0	143
	7/21/2010	15.6	9.7	267	8.3	<5.0	239
	10/12/2010	<5.0	<5.0	100	<5.0	<5.0	96.1
	1/19/2011	<5.0	14.4	80.9	12.7	<5.0	88.0
	5/4/2011	429	76.6	464	16.9	<5.0	130
	7/27/2011	24.5	14.3	206	7.2	<5.0	295
	10/19/2011	5.2	<5.0	134	<5.0	<5.0	198
	2/14/2012	35.0	21.6	357	6.7	<5.0	265
	4/24/2012	54.0	23.8	194	6.1	<5.0	196
	8/2/2012	<5.0	<5.0	111	<5.0	<5.0	256
	11/15/2012	23.0	21.7	309	13.2	<5.0	286
	2/28/2013	41.8	25.5	294	9.2	<5.0	273
MMW-11S	6/14/2007	<5.0	<5.0	225	6.8	<5.0	18.6
	9/19/2007	<5.0	<5.0	442	21.1	<5.0	30.1
	12/13/2007	7.2	<5.0	920	27.0	<5.0	49.0
	3/20/2008	<5.0	<5.0	420	17.0	<5.0	4.9
	6/5/2008	<5.0	<5.0	623	23.1	<5.0	26.7
	9/10/2008	<5.0	<5.0	327	18.3	<5.0	9.9
	11/20/2008	<5.0	<5.0	554	23.9	<5.0	18.5
	3/16/2009	<5.0	<5.0	37.6	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	253	17.9	<5.0	2.8
	8/5/2009	<5.0	<5.0	80.7	5.5	<5.0	3.1
	11/2/2009	<5.0	<5.0	59.9	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	17.7	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	120	7.4	<5.0	4.3
	10/12/2010	<5.0	<5.0	85.1	5.6	<5.0	<2.0
	1/19/2011	<5.0	<5.0	46.3	12.9	<5.0	<2.0
	4/30/2011	<5.0	<5.0	8.3	<5.0	<5.0	<2.0
	7/26/2011	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	10/21/2011	<5.0	<5.0	33.9	<5.0	<5.0	<2.0
	2/14/2012	<5.0	<5.0	5.4	<5.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	42.5	5.1	<5.0	<2.0
	7/31/2012	<5.0	<5.0	62.7	5.4	<5.0	<2.0
	11/13/2012	<5.0	<5.0	27.6	<5.0	<5.0	<2.0
	3/4/2013	<5.0	<5.0	5.2	<5.0	<5.0	<2.0
MMW-12S	6/16/2009	<5.0	<5.0	9.7	<5.0	<5.0	6.5
	8/5/2009	<5.0	<5.0	47.3	<5.0	<5.0	15.2
	11/2/2009	<5.0	<5.0	28.8	<5.0	<5.0	7.1
	2/3/2010	<5.0	<5.0	11.4	<5.0	<5.0	2.1
	4/20/2010	<5.0	<5.0	5.3	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	25.4	<5.0	<5.0	7.3
	10/12/2010	<5.0	<5.0	16.8	<5.0	<5.0	<2.0
	1/18/2011	<5.0	<5.0	19.7	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	30.6	<5.0	<5.0	2.7
	7/26/2011	<5.0	<5.0	24.3	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	39.4	<5.0	<5.0	<2.0
	2/14/2012	<5.0	<5.0	24.0	<5.0	<5.0	<2.0
	4/23/2012	<5.0	<5.0	45.2	<5.0	<5.0	2.6
	7/31/2012	<5.0	<5.0	46.9	<5.0	<5.0	3.0
	11/13/2012	<5.0	<5.0	84.3	<5.0	<5.0	5.3
	3/4/2013	<5.0	<5.0	42.8	<5.0	<5.0	2.3

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Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-15S	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	11.2	<5.0	<5.0	<2.0
	8/6/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/21/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-4D	8/25/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	980	<5.0	<5.0	200
	11/10/2005	<5.0	<5.0	850	<5.0	<5.0	240
	9/5/2006	<5.0	<5.0	1,100	<5.0	<5.0	220
	2/22/2007	<5.0	<5.0	1,460	<5.0	<5.0	248
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
	6/15/2009	<5.0	<5.0	892	7.0	<5.0	142
	4/20/2010	<5.0	<5.0	719	<5.0	<5.0	237
	4/29/2011	<5.0	<5.0	1,050	<5.0	<5.0	164
	2/14/2012	<5.0	<5.0	639	<5.0	<5.0	237
	4/23/2012	<5.0	<5.0	338	<5.0	<5.0	176
	7/31/2012	<5.0	<5.0	347	<5.0	<5.0	129
	11/13/2012	<5.0	<5.0	463	<5.0	<5.0	164
	3/5/2013	<5.0	<5.0	396	<5.0	<5.0	202
MMW-5D	8/24/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	3,400	13.0	<5.0	270
	11/10/2005	<5.0	<5.0	3,900	19.0	<5.0	140
	9/5/2006	<50.0	<50	2,500	<50	<5.0	170
	2/22/2007	<50.0	<50	3,970	<50	<5.0	359
	6/2/2008	<5.0	<5.0	1,360	19.9	<5.0	207
	6/15/2009	<5.0	<5.0	1,110	14.5	<5.0	242
	4/20/2010	<5.0	<5.0	943	<5.0	<5.0	204
	4/29/2011	<5.0	<5.0	659	<5.0	<5.0	166
	4/23/2012	<5.0	<5.0	228	<5.0	<5.0	126
MMW-6D	9/10/2004	<5.0	<5.0	540	<5.0	<5.0	400
	11/10/2005	<5.0	<5.0	750	<5.0	<5.0	700
	9/5/2006	<5.0	<5.0	300	<5.0	<5.0	440
	2/21/2007	<5.0	<5.0	171	<5.0	<5.0	282
	6/2/2008	<5.0	<5.0	65.5	<5.0	<5.0	242
	6/15/2009	<5.0	<5.0	8.6	<5.0	<5.0	111
	4/20/2010	<5.0	<5.0	8.2	<5.0	<5.0	63.6
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	51.1
	2/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	43.9
	4/23/2012	<5.0	<5.0	<5.0	<5.0	<5.0	38.5
	7/31/2012	<5.0	<5.0	<5.0	<5.0	<5.0	38.1
	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	57.5
	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	61.1
MMW-11D	6/16/2009	<5.0	<5.0	25.3	6.7	<5.0	<2.0
	8/5/2009	<5.0	<5.0	485	22.6	<5.0	15.3
	11/2/2009	<5.0	<5.0	771	31.8	<5.0	18.8
	2/3/2010	<5.0	<5.0	301	28.2	<5.0	5.2
	4/22/2010	<5.0	<5.0	307	21.8	<5.0	2.6
	7/21/2010	<5.0	<5.0	396	21.8	<5.0	10.9
	10/12/2010	<5.0	<5.0	162	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	570	26.7	<5.0	5.9
	4/30/2011	<5.0	<5.0	356	17.2	<5.0	3.6
	7/26/2011	<5.0	<5.0	304	18.3	<5.0	3.6
	10/21/2011	<5.0	<5.0	751	22.7	<5.0	11.8
	2/14/2012	<5.0	<5.0	240	19.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	186	13.0	<5.0	<2.0
	7/31/2012	<5.0	<5.0	310	20.3	<5.0	3.2
	11/13/2012	<5.0	<5.0	309	14.6	<5.0	2.9
	3/4/2013	<5.0	<5.0	221	18.9	<5.0	<2.0

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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-13D	8/5/2009	<5.0	<5.0	672	<5.0	<5.0	59.2
	11/2/2009	<5.0	<5.0	949	<5.0	<5.0	182
	2/3/2010	<5.0	<5.0	819	6.2	<5.0	260
	4/22/2010	<5.0	<5.0	469	<5.0	<5.0	4.6
	7/21/2010	<5.0	<5.0	432	<5.0	<5.0	16.6
	10/12/2010	<5.0	<5.0	1,200	<5.0	<5.0	187
	1/19/2011	<5.0	<5.0	920	12.3	<5.0	179
	4/30/2011	<5.0	<5.0	527	<5.0	<5.0	15.4
	7/26/2011	<5.0	<5.0	328	<5.0	<5.0	11.9
	10/18/2011	<5.0	<5.0	771	5.2	<5.0	140
	2/14/2012	<5.0	<5.0	331	<5.0	<5.0	9.9
	4/24/2012	<5.0	<5.0	422	<5.0	<5.0	46.7
	7/31/2012	<5.0	<5.0	684	<5.0	<5.0	147
	11/13/2012	<5.0	<5.0	765	<5.0	<5.0	135
	3/4/2013	<5.0	<5.0	374	<5.0	<5.0	21.7
MMW-13D Low	6/16/2009	<5.0	<5.0	613	10.4	<5.0	17.3
MMW-13D Medium (29')	6/16/2009	<5.0	<5.0	578	12.1	<5.0	14.9
MMW-13D High (17')	6/16/2009	<5.0	<5.0	597	9.7	<5.0	21.1
MMW-14D	6/16/2009	<5.0	<5.0	648	15.6	<5.0	57.6
	8/5/2009	<5.0	<5.0	589	10.9	<5.0	79.1
	11/2/2009	<5.0	<5.0	541	9.2	<5.0	83.8
	2/3/2010	<5.0	<5.0	871	13.9	<5.0	84.9
	4/20/2010	<5.0	<5.0	763	14.1	<5.0	72.8
	7/21/2010	<5.0	<5.0	805	14.6	<5.0	60.8
	10/12/2010	<5.0	<5.0	775	8.4	<5.0	83.3
	1/18/2011	<5.0	<5.0	785	24.0	<5.0	109
	4/30/2011	<5.0	<5.0	1,070	14.7	<5.0	68.3
	7/26/2011	<5.0	<5.0	875	15.3	<5.0	81.0
	10/19/2011	<5.0	<5.0	898	11.1	<5.0	92.6
	2/14/2012	<5.0	<5.0	1080	17.4	<5.0	89.7
	4/23/2012	<5.0	<5.0	996	11.0	<5.0	79.6
	7/31/2012	<5.0	<5.0	795	13.5	<5.0	95.1
	11/13/2012	<5.0	<5.0	1010	10.0	<5.0	105
	3/4/2013	<5.0	<5.0	983	16.2	<5.0	96.4
MMW-15D	2/15/2012	<5.0	<5.0	7.3	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2012	<5.0	<5.0	11.6	<5.0	<5.0	3.1
	11/21/2012	<5.0	<5.0	10.6	<5.0	<5.0	<2.0
	3/6/2013	<5.0	<5.0	10	<5.0	<5.0	2.7

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
Monitoring Wells (Plaza)							
Shallow Wells							
MMW-P-01	11/9/2005	33	210	160	9.6	<5.0	76.0
	2/22/2007	85.2	356	274	16.7	<5.0	28.7
	6/14/2007	111	368	350	10.0	<5.0	79.6
	9/20/2007	206	322	300	11.5	<5.0	127
	12/14/2007	230	320	240	7.1	<5.0	87.0
	3/21/2008	120	170	3,100	25.0	<5.0	42.0
	6/5/2008	22.0	31.5	3,660	68.6	<5.0	123
	9/11/2008	14.2	15.1	1,690	<5.0	<5.0	87.7
	11/19/2008	<5.0	<5.0	4,320	<5.0	<5.0	116
	3/17/2009	17.5	22.6	12,300	143	<5.0	3,290
	6/17/2009	<50.0	<50.0	4,020	63.9	<50.0	1,840
	8/6/2009	97.4	<50.0	12,200	<50.0	<50.0	3,730
	11/3/2009	103	58.3	9,330	<50.0	<50.0	4,770
	2/4/2010	104	60.6	9,190	130	<50.0	13,600
	4/22/2010	90.5	79.0	9,400	94.7	<50.0	12,600
	7/7/2010	<50.0	<50.0	1,880	<50.0	<50.0	2,960
	10/14/2010	<125	<125	4,760	<125	<125	5,440
	1/20/2011	153	140	1,960	<50.0	<50.0	11,100
	5/5/2011	8.4	26.8	281	<5.0	<5.0	232
	7/28/2011	5.7	6.0	734	<5.0	<5.0	1,070
	10/24/2011	23.4	10.0	839	9.10	<5.0	1,410
	2/13/2012	15.0	<5.0	438	<5.0	<5.0	2,270
	4/25/2012	21.8	11.0	459	8.1	<5.0	1,720
	8/2/2012	12.0	8.0	377	<5.0	<5.0	1,680
	11/14/2012	24.5	13.1	619	14.1	<5.0	3,060
	3/4/2013	24.4	12.4	527	12.9	<5.0	2,810
MMW-P-02	11/8/2005	24.0	<5.0	87.0	7.3	<5.0	49.0
	2/22/2007	184	<5.0	39.4	<5.0	<5.0	27.4
	6/14/2007	17.1	<5.0	35.0	<5.0	<5.0	27.5
	9/19/2007	13.3	<5.0	66.3	5.6	<5.0	50.1
	12/13/2007	7.8	<5.0	69.0	<5.0	<5.0	53.0
	3/20/2008	19.0	<5.0	67.0	<5.0	<5.0	42.0
	6/5/2008	94.9	<5.0	44.0	<5.0	<5.0	46.4
	9/11/2008	17.5	<5.0	46.6	<5.0	<5.0	42.0
	11/19/2008	10.7	<5.0	75.4	<5.0	<5.0	69.5
	3/17/2009	23.4	<5.0	65.4	5.3	<5.0	68.4
	6/17/2009	5.1	<5.0	54.2	9.2	<5.0	80.6
	8/6/2009	5.1	<5.0	55.8	<5.0	<5.0	56.2
	11/3/2009	11.1	<5.0	60.1	<5.0	<5.0	73.9
	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
	4/22/2010	9.9	6.8	56.0	8.0	<5.0	110
	7/21/2010	24.0	<5.0	72.4	<5.0	<5.0	161
	10/13/2010	9.3	<5.0	61.0	<5.0	<5.0	95.0
	1/19/2011	15.9	<5.0	64.3	14.0	<5.0	396
	5/4/2011	9.2	<5.0	56.5	<5.0	<5.0	386
	7/27/2011	<5.0	<5.0	42.9	<5.0	<5.0	218
	10/19/2011	9.1	<5.0	36.9	<5.0	<5.0	304
	2/13/2012	<5.0	<5.0	120.0	<5.0	<5.0	479
	4/25/2012	<5.0	<5.0	53.4	<5.0	<5.0	274
	8/1/2012	6.4	<5.0	34.2	<5.0	<5.0	257
	11/14/2012	6.7	<5.0	54.0	<5.0	<5.0	803
	3/4/2013	<5.0	<5.0	52.5	<5.0	<5.0	347

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
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Indianapolis, Indiana
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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-P-03S	11/9/2005	110	<5.0	97.0	9.6	<5.0	<2.0
	2/22/2007	397	<5.0	105	10.0	<5.0	<2.0
	6/14/2007	256	<5.0	96.4	9.2	<5.0	9.3
	9/20/2007	144	<5.0	131	15.8	<5.0	16.0
	12/13/2007	67.0	<5.0	88.0	5.3	<5.0	15.0
	3/20/2008	130	<5.0	84.0	7.3	<5.0	10.0
	6/5/2008	19.4	<5.0	380	14.9	<5.0	10.6
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	6.0	494	<5.0	<5.0	40.8
	3/17/2009	7.5	<5.0	904	38.7	<5.0	283
	6/17/2009	<5.0	<5.0	332	22.3	<5.0	759
	8/6/2009	30.6	8.2	573	25.0	<5.0	843
	11/3/2009	<5.0	<5.0	141	16.1	<5.0	379
	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
	4/22/2010	14.2	8.9	156	13.4	<5.0	377
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	141
	10/13/2010	<5.0	<5.0	70.9	9.2	<5.0	542
	1/19/2011	<5.0	<5.0	79.7	19.4	<5.0	338
	5/4/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	29.3	<5.0	<5.0	245
	10/19/2011	<5.0	<5.0	33.5	6.6	<5.0	446
	2/13/2012	<5.0	<5.0	48.0	<5.0	<5.0	221
	4/25/2012	<5.0	<5.0	18.4	<5.0	<5.0	257
	8/1/2012	<5.0	<5.0	16.1	<5.0	<5.0	294
	11/14/2012	<5.0	<5.0	12.3	<5.0	<5.0	113
	3/4/2013	<5.0	<5.0	49.4	<5.0	<5.0	124
MMW-P-04	11/9/2005	180	<5.0	<5.0	<5.0	<5.0	<2.0
	2/22/2007	315	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	268	<5.0	<5.0	<5.0	<5.0	<2.0
	9/20/2007	214	<5.0	<5.0	<5.0	<5.0	<2.0
	12/13/2007	62.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	120	<5.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	154	6.0	59.7	<5.0	<5.0	<2.0
	9/11/2008	31.9	<5.0	360	7.1	<5.0	<2.0
	11/19/2008	45.0	<5.0	248	<5.0	<5.0	<2.0
	3/18/2009	19.4	5.4	304	10.8	<5.0	<2.0
	6/17/2009	35.3	5.4	827	22.0	<5.0	2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/5/2009	<5.0	<5.0	1,190	36.9	<5.0	90.9
	2/12/2010	<5.0	<5.0	144	8.3	<5.0	224
	4/21/2010	<5.0	<5.0	268	15.8	<5.0	364
	7/22/2010	<5.0	<5.0	189	12.9	<5.0	402
	10/13/2010	<5.0	<5.0	10.3	<5.0	<5.0	16.8
	2/18/2011	<5.0	<5.0	6.4	<5.0	<5.0	36.3
	5/5/2011	144	<5.0	76.2	<5.0	<5.0	124
	7/28/2011	<5.0	<5.0	30.6	<5.0	<5.0	78.8
	10/24/2011	<5.0	<5.0	14.8	<5.0	<5.0	68.7
	2/16/2012	<5.0	<5.0	6.9	<5.0	<5.0	16.1
	5/1/2012	<5.0	<5.0	<5.0	<5.0	<5.0	5.7
	8/10/2012	<5.0	<5.0	5.8	<5.0	<5.0	2.7
	11/21/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/9/2013	28.2	<5.0	50.1	<5.0	<5.0	6.1

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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-P-05	11/8/2005	<5.0	<5.0	6.2	<5.0	<5.0	<2.0
	2/22/2007	23.7	<5.0	9.1	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	12/14/2007	<5.0	<5.0	14.8	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	8.1	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	15.6	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	16.7	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	22.1	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	13.7	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	10.9	6.6	<5.0	<2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	7.6	<5.0	<5.0	2.7
	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	8.6	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	10.4	<5.0	<5.0	5.3
	10/13/2010	<5.0	<5.0	13.6	<5.0	<5.0	3.9
	1/20/2011	<5.0	<5.0	14.1	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	9.2
	7/27/2011	<5.0	<5.0	10.3	<5.0	<5.0	307
	10/19/2011	<5.0	<5.0	8.3	<5.0	<5.0	48.3
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	79.4
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	80.9
	8/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	157
	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	151
	3/4/2013	<5.0	<5.0	<5.0	<5.0	<5.0	173
MMW-P-06	11/8/2005	<5.0	<5.0	200	24.0	<5.0	21.0
	2/22/2007	<5.0	<5.0	158	19.2	<5.0	<2.0
	6/14/2007	<5.0	<5.0	214	22.7	<5.0	13.3
	9/19/2007	<5.0	<5.0	283	38.2	<5.0	26.1
	12/14/2007	<5.0	<5.0	260	40.0	<5.0	31.0
	3/20/2008	<5.0	<5.0	250	31.0	<5.0	26.0
	6/5/2008	<5.0	<5.0	265	30.9	<5.0	40.1
	9/11/2008	<5.0	<5.0	271	33.3	<5.0	<2.0
	11/19/2008	<5.0	<5.0	292	<5.0	<5.0	61.4
	3/17/2009	<5.0	<5.0	292	35.3	<5.0	<2.0
	6/17/2009	<5.0	<5.0	145	22.2	<5.0	90.6
	8/6/2009	<5.0	<5.0	136	14.3	<5.0	301
	11/3/2009	<5.0	<5.0	107	15.2	<5.0	292
	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
	4/22/2010	<5.0	<5.0	23.7	8.0	<5.0	2,470
	7/21/2010	<50.0	<50.0	<50.0	<50.0	<50.0	5,870
	10/14/2010	<100	<100	<100	<100	<100	12,900
	1/20/2011	<100	<100	2,700	<100	<100	15,000
	5/4/2011	<50.0	<50.0	2,850	<50.0	<50.0	14,400
	7/28/2011	<50.0	<50.0	1,670	<50.0	<50.0	15,600
	10/24/2011	<50.0	<50.0	10,100	<50.0	<50.0	11,300
	2/13/2012	<50.0	<50.0	2,800	<50.0	<50.0	10,100
	4/26/2012	<5.0	<5.0	3,220	29.2	<5.0	7,090
	8/2/2012	<5.0	<5.0	6,420	47.0	<5.0	6,510
	11/14/2012	<5.0	<5.0	4,640	<5.0	<5.0	6,170
	3/4/2013	<50.0	<50.0	2,230	<50.0	<50.0	5,010

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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-P-07	2/22/2007	3,060	81.5	82.0	8.8	<5.0	<2.0
	6/14/2007	2,850	90.0	82.5	<50.0	<50.0	<20.0
	9/20/2007	5,200	109	121	16.1	<5.0	2.0
	12/13/2007	1,440	157	930	8.8	7.4	80.0
	3/21/2008	31.0	7.6	1,700	27.0	<5.0	110
	6/5/2008	<5.0	<5.0	938	15.6	<5.0	466
	9/11/2008	<5.0	<5.0	1,870	55.2	<5.0	1,620
	11/19/2008	<5.0	<5.0	797	<5.0	<5.0	749
	3/17/2009	<5.0	<5.0	361	17.7	<5.0	1,830
	6/17/2009	<5.0	<5.0	87.1	9.4	<5.0	1,130
	8/6/2009	<5.0	<5.0	48.7	<5.0	<5.0	787
	11/3/2009	<5.0	<5.0	809	14.1	<5.0	1,510
	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
	4/22/2010	<5.0	7.0	1,050	23.7	<5.0	2,080
	7/22/2010	<5.0	<5.0	247	7.8	<5.0	1,680
	10/14/2010	<25.0	<25.0	665	<25.0	<25.0	2,310
	1/20/2011	<5.0	<5.0	295	13.9	<5.0	562
	5/4/2011	<5.0	<5.0	72.0	<5.0	<5.0	2,170
	7/28/2011	<5.0	<5.0	73.6	<5.0	<5.0	978
	10/24/2011	<5.0	<5.0	37.3	<5.0	<5.0	388
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	330
	4/25/2012	<5.0	<5.0	11.6	<5.0	<5.0	266
	8/2/2012	<5.0	<5.0	33.7	<5.0	<5.0	405
	11/14/2012	<5.0	<5.0	42.2	<5.0	<5.0	607
	3/4/2013	<5.0	<5.0	23.9	<5.0	<5.0	386
MMW-P-08	2/22/2007	6,280	281	240	26.7	<5.0	<2.0
	6/14/2007	6,440	310	169	<50.0	<50.0	<20.0
	9/20/2007	9,780	494	201	25.3	<5.0	6.5
	12/14/2007	390	210	5,800	<50.0	<50.0	<20.0
	3/21/2008	6.7	11.0	6,500	130	<5.0	55.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	562
	9/11/2008	5.8	5.0	18,300	686	<50.0	4,740
	11/19/2008	<50.0	<50.0	5,690	91.4	<50.0	13,000
	3/17/2009	<5.0	<5.0	1,130	47.1	<5.0	5,680
	6/17/2009	<125	<125	356	145	<5.0	7,200
	8/6/2009	<125	<125	601	<50.0	<50.0	8,960
	11/3/2009	<50.0	<50.0	86.7	<50.0	<50.0	2,860
	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
	4/22/2010	<5.0	<5.0	45.7	8.1	<5.0	2,180
	7/22/2010	<5.0	<5.0	97.8	<5.0	<5.0	1,320
	10/14/2010	<25.0	<25.0	39.5	<25.0	<25.0	676
	1/20/2011	<5.0	<5.0	590	14.8	<25.0	1,770
	5/4/2011	<5.0	<5.0	288	<5.0	<5.0	2,030
	7/27/2011	<5.0	<5.0	35.9	<5.0	<5.0	274
	10/24/2011	<5.0	<5.0	32.5	<5.0	<5.0	136
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	52.5
	4/25/2012	<5.0	<5.0	5.0	<5.0	<5.0	85.2
	8/2/2012	<5.0	<5.0	879	13.9	<5.0	561
	11/14/2012	<5.0	<5.0	18.4	<5.0	<5.0	436
	3/4/2013	<5.0	<5.0	111	<5.0	<5.0	934

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-P-09S	2/22/2007	10.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/1/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10S	6/14/2007	36.1	36.3	61.6	6.9	<5.0	<2.0
	7/6/2007	87.9	54.9	92.1	10.2	<5.0	<2.0
	9/19/2007	192	82.6	126	14.4	<5.0	<2.0
	12/14/2007	71.0	<5.0	<5.0	<5.0	<5.0	2.4
	3/20/2008	26.8	19.2	250	12.2	<5.0	<2.0
	6/5/2008	15.0	9.7	537	16.0	<5.0	114
	9/11/2008	74.8	36.5	1,650	74.0	<5.0	27.7
	11/19/2008	78.6	28.0	1,510	<5.0	<5.0	22.3
	3/17/2009	11.9	8.6	1,160	71.5	<5.0	<2.0
	6/17/2009	<5.0	<5.0	331	20.5	<5.0	63.9
	8/6/2009	<5.0	<5.0	158	16.1	<5.0	395
	11/3/2009	<5.0	<5.0	29.6	<5.0	<5.0	288
	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
	4/22/2010	<5.0	<5.0	16.2	<5.0	<5.0	118
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.5
	10/14/2010	<5.0	<5.0	5.4	<5.0	<5.0	381
	1/20/2011	<5.0	<5.0	11.7	<5.0	<5.0	27.8
	5/5/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	12.5
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	26.8
	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	2.3
	2/28/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-12S	9/9/2011	<5.0	<5.0	741	14.1	<5.0	50.8
	10/24/2011	<5.0	<5.0	642	19.2	<5.0	60.7
	2/15/2012	<5.0	<5.0	777	14.5	<5.0	61.4
	5/1/2012	<5.0	<5.0	454	12.4	<5.0	50.9
	8/7/2012	<5.0	<5.0	679	20.3	<5.0	51.8
	11/19/2012	<5.0	<5.0	763	15.8	<5.0	76.1
	3/9/2013	<5.0	<5.0	505	18.0	<5.0	63.0

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
Deep Wells							
MMW-P-03D	11/9/2005	22.0	<5.0	42.0	<5.0	<5.0	2.0
	2/22/2007	48.9	<5.0	57.8	<5.0	39.0	15.6
	6/14/2007	21.7	<5.0	74.9	<5.0	<5.0	34.5
	9/19/2007	14.3	<5.0	76.1	7.3	<5.0	36.6
	12/13/2007	11.0	<5.0	40.0	<5.0	<5.0	20.0
	39527	<5.0	<5.0	170	6.0	<5.0	18.0
	39604	<5.0	<5.0	150	7.4	<5.0	26.0
	39702	<5.0	<5.0	95.7	6.4	<5.0	<2.0
	11/19/2008	<5.0	<5.0	80.6	<5.0	<5.0	36.9
	3/17/2009	<5.0	<5.0	65.2	<5.0	<5.0	69.8
	6/17/2009	<5.0	<5.0	14.9	5.9	<5.0	137
	8/6/2009	<5.0	<5.0	16.7	<5.0	<5.0	248
	11/3/2009	<5.0	<5.0	8.5	<5.0	<5.0	168
	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
	4/22/2010	<5.0	<5.0	7.2	<5.0	<5.0	211
	7/21/2010	6.6	<5.0	271	8.1	<5.0	305
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.2
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	5/4/2011	<5.0	<5.0	64.3	<5.0	<5.0	118
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	10.5
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	61.5
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	4.0
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	16.6
	8/1/2012	<5.0	<5.0	<5.0	<5.0	<5.0	175
	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	17.3
	3/4/2013	<5.0	<5.0	<5.0	<5.0	<5.0	51.7
MMW-P-09D	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	83.1
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	71.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	100
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	97.2
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	85.1
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	73.5
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	80.8
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	87.1
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	76.9
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	81.2
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	70.6
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	66.9
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	74.5
	7/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0	83.3
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	71.9
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	70.7
	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	56.6
	8/1/2012	<5.0	<5.0	<5.0	<5.0	<5.0	69.2
	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	61.6
	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	96.4

Table 3
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Quarter 1 - 2013
Michigan Plaza
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Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-P-10D	6/14/2007	<5.0	10.6	481	7.7	<5.0	98.7
	7/6/2007	<5.0	<5.0	498	9.0	<5.0	118
	9/19/2007	<5.0	<5.0	350	<5.0	<5.0	76.1
	12/14/2007	<5.0	<5.0	270	<5.0	<5.0	77.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	508	<5.0	<5.0	267
	9/11/2008	<5.0	<5.0	435	<5.0	<5.0	288
	11/19/2008	<5.0	<5.0	3,390	<5.0	<5.0	5,030
	3/17/2009	<5.0	<5.0	4,860	12.9	<5.0	2,500
	6/17/2009	<5.0	<5.0	3,710	9.6	<5.0	9,070
	8/6/2009	<5.0	<5.0	2,520	5.1	<5.0	3,400
	11/3/2009	<5.0	<5.0	2,740	<5.0	<5.0	3,500
	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
	4/22/2010	<5.0	<5.0	30.5	<5.0	<5.0	364
	7/22/2010	<5.0	<5.0	120	<5.0	<5.0	865
	10/14/2010	<25.0	<25.0	<25.0	<25.0	<25.0	707
	1/20/2011	<5.0	<5.0	21.4	<5.0	<5.0	1,210
	5/5/2011	<5.0	<5.0	8.1	<5.0	<5.0	272
	7/27/2011	<5.0	<5.0	46.5	<5.0	<5.0	825
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	444
	2/13/2012	<5.0	<5.0	28.7	<5.0	<5.0	1790
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	289
	8/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	475
	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	964
	2/28/2013	<5.0	<5.0	8.9	<5.0	<5.0	181
MMW-P-12D	9/9/2011	<5.0	<5.0	678	15.9	<5.0	63.0
	10/24/2011	<5.0	<5.0	644	14.2	<5.0	71.3
	2/15/2012	<5.0	<5.0	727	15.0	<5.0	65.1
	5/1/2012	<5.0	<5.0	591	15.2	<5.0	69.4
	8/7/2012	<5.0	<5.0	750	18.8	<5.0	67.6
	11/20/2012	<5.0	<5.0	793	17.4	<5.0	91.8
	3/9/2013	<5.0	<5.0	619	20.6	<5.0	71.4
ENVIRON Monitoring Wells (Off-site)							
Shallow Wells							
MW-167S	11/7/2005	<5.0	<5.0	<5.0	<5.0	<5.0	14.0
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-168S	11/7/2005	280	16.0	53.0	<5.0	<5.0	3.0
	2/21/2007	30.1	8.8	155	<5.0	<5.0	29.6
	6/14/2007	<5.0	<5.0	40.8	<5.0	<5.0	34.0
	9/19/2007	32.6	8.0	82.4	<5.0	<5.0	3.5
	12/13/2007	52.0	14.0	78.0	<5.0	<5.0	4.1
	3/20/2008	92.0	12.0	46.0	<5.0	<5.0	4.2
	6/5/2008	80.4	10.1	41.1	<5.0	<5.0	3.6
	9/11/2008	68.5	10.8	66.9	<5.0	<5.0	5.5
	8/7/2009	62.6	10.2	118	<5.0	NS	9.9
	4/21/2010	14.0	7.0	21.9	<5.0	<5.0	<2.0
	3/8/2013	76.0	11.7	75.7	<5.0	<5.0	57.1
MW-169S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0

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Quarter 1 - 2013
Michigan Plaza
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Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MW-170S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	21.2
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	5.5
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/16/2012	<5.0	<5.0	6.3	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	6.0	<5.0	<5.0	<2.0
	8/3/2012	<5.0	<5.0	7.9	<5.0	<5.0	<2.0
	11/16/2012	<5.0	<5.0	6.1	<5.0	<5.0	<2.0
	3/8/2013	<5.0	<5.0	7.9	<5.0	<5.0	<2.0
MW-171S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MW-165D	7/7/2010	<5.0	<5.0	122	<5.0	<5.0	202
MW-167D	11/7/2005	<5.0	<5.0	750	<5.0	<5.0	110
	2/21/2007	<5.0	<5.0	375	10.0	<5.0	59.3
	6/5/2008	<5.0	<5.0	616	28.0	<5.0	43.8
	6/17/2009	<5.0	<5.0	612	22.1	<5.0	23.8
	4/21/2010	<5.0	<5.0	626	22.1	<5.0	25.6
	4/29/2011	<5.0	<5.0	392	18.9	<5.0	14.9
	2/16/2012	<5.0	<5.0	541	<5.0	<5.0	20.0
	5/2/2012	<5.0	<5.0	377	16.9	<5.0	21.7
	8/3/2012	<5.0	<5.0	422	26.4	<5.0	8.4
	11/16/2012	<5.0	<5.0	480	19.9	<5.0	9.2
	3/8/2013	<5.0	<5.0	382	19.1	<5.0	13.5
MW-168D	11/7/2005	<5.0	<5.0	6.8	<5.0	<5.0	49.0
	2/21/2007	<5.0	<5.0	8.4	<5.0	<5.0	58.1
	6/14/2007	<5.0	<5.0	5.2	<5.0	<5.0	47.5
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	89.7
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	74.0
	3/20/2008	<5.0	<5.0	8.0	<5.0	<5.0	39.0
	6/5/2008	<5.0	<5.0	13.4	<5.0	<5.0	65.9
	9/11/2008	<5.0	<5.0	5.5	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	16.5	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	14.5
	8/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0	36.2
	11/4/2009	<5.0	<5.0	<5.0	<5.0	<5.0	99.1
	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
	4/21/2010	<5.0	<5.0	13.2	<5.0	<5.0	134
	7/22/2010	<5.0	<5.0	6.0	<5.0	<5.0	122
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	134
	4/29/2011	<5.0	<5.0	<5.0	10.0	<5.0	96.4
	7/28/2011	<5.0	<5.0	<5.0	<5.0	<5.0	228
	10/24/2011	<5.0	<5.0	8.9	<5.0	<5.0	137
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	108
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	130
	8/3/2012	<5.0	<5.0	<5.0	<5.0	<5.0	104
	11/16/2012	<5.0	<5.0	6.9	<5.0	<5.0	81.3
	3/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	80.5
MW-169D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	11.9
	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	5.1
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	14.3
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.1
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	9.1
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	27.1

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MW-170D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	105
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	230
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	174
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	161
	7/7/2010	<5.0	<5.0	<5.0	<5.0	<5.0	233
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	100
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	88.8
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	91.0
	8/3/2012	<5.0	<5.0	<5.0	<5.0	<5.0	77.2
	11/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	62.8
	3/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	76.9
MW-171D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.3
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	9.5
Floral Park Cemetery Wells (Off-site)							
Shallow Wells							
MMW-C-01	11/20/2008	15.7	8.3	296	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	508	7.3	<5.0	<2.0
	6/18/2009	23.2	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	84.8	<5.0	66.9	<5.0	<5.0	35.2
	11/3/2009	12.6	<5.0	211	8.9	<5.0	2,720
	2/3/2010	<5.0	<5.0	176	10.1	<5.0	1,790
	4/21/2010	15.3	<5.0	165	7.1	<5.0	1,660
	7/22/2010	40.9	<5.0	22.4	<5.0	<5.0	8.1
	10/14/2010	<5.0	<5.0	69.1	<5.0	<5.0	1,100
	1/19/2011	<5.0	<5.0	14.7	<5.0	<5.0	215
	5/5/2011	22.2	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	36.7	<5.0	17.1	<5.0	<5.0	150
	10/21/2011	18.7	<5.0	20.6	<5.0	<5.0	59
	2/15/2012	23.8	<5.0	6.0	<5.0	<5.0	21
	4/24/2012	11.9	<5.0	10.6	<5.0	<5.0	45.3
	8/1/2012	<5.0	<5.0	8.9	<5.0	<5.0	29.2
	11/15/2012	24.6	<5.0	10.9	<5.0	<5.0	26.7
	3/5/2013	17.5	<5.0	<5.0	<5.0	<5.0	10.1
MMW-C-02S	11/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/1/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/5/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-16S	8/6/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level		5	5	70	100	80	2
MMW-P-11S	9/9/2011	76.1	<5.0	5.9	<5.0	<5.0	9.1
	10/24/2011	592	<5.0	<5.0	<5.0	<5.0	2.5
	2/15/2012	658	<5.0	<5.0	<5.0	<5.0	2.3
	5/1/2012	351	<5.0	9.1	<5.0	<5.0	8.5
	8/8/2012	88.1	<5.0	14.7	<5.0	<5.0	11.4
	11/15/2012	538	<5.0	6.5	<5.0	<5.0	18.7
	3/6/2013	703	<5.0	<5.0	<5.0	<5.0	18.8
MMW-P-13S	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	8.3
	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	19.8
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/7/2012	<5.0	<5.0	<5.0	<5.0	<5.0	8.9
	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	3.6
	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14S	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/7/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-C-02D	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	30.7
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	55.1
	8/8/2012	<5.0	<5.0	<5.0	<5.0	<5.0	95.1
	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	125
	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	162
MMW-C-16D	8/6/2012	<5.0	<5.0	<5.0	<5.0	<5.0	224
	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	349
	3/6/2013	<5.0	<5.0	<5.0	<5.0	<5.0	316
MMW-C-17D	8/8/2012	<5.0	<5.0	<5.0	<5.0	<5.0	2.7
	11/20/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	2.1
MMW-P-11DR	2/15/2012	<5.0	<5.0	8.4	<5.0	<5.0	95.1
	5/1/2012	<5.0	<5.0	8.5	<5.0	<5.0	102
	8/7/2012	<5.0	<5.0	11.7	<5.0	<5.0	102
	11/15/2012	<5.0	<5.0	10.4	<5.0	<5.0	117
	3/6/2013	<5.0	<5.0	10.6	<5.0	<5.0	201
MMW-P-13D	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	139
	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	116
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	155
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	132
	8/7/2012	<5.0	<5.0	<5.0	<5.0	<5.0	167
	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	154
	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	140
MMW-P-14D	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	49.6
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	49.5
	8/7/2012	<5.0	<5.0	<5.0	<5.0	<5.0	58.1
	11/20/2012	<5.0	<5.0	<5.0	<5.0	<5.0	58.3
	3/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	32.3

Notes:

All Values Over IDEM RISC Default Industrial Cleanup Level in RED.

All Values Over IDEM RISC Default Residential Cleanup Level in BLUE.

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene.

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections.

"J" desgination indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations.

All analytical results presented in micrograms per liter (ug/L).

Table 4
Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-1S	2/22/2007	8.00	4.800	290	920.0																	
	9/19/2007	7.20	3.100	240	1100.0																	
	12/13/2007		6.400	430	910.0																	
	3/21/2008		1.650	230	3752.6	8.3				37.5												
	6/3 & 6/6/2008		1.286		3346.1	2.5				36.6	9.0	0.14	0.35	<0.10	<0.070	0.35	<0.070	1.4	<0.070	<0.025	<0.025	270
	9/11/2008					5.8				95.0												
	11/20/2008	6.80	824	533	3044.0	<0.10				71.3												
	3/16/2009	6.70	4.879	454	2794.0	7.3				67.6												
	6/16/2009					9.3				42.8												
	8/5/2009					<0.10				150												
	11/2/2009	6.68	1.900	-26	1235.4	<0.10				12.4										0.12	0.18	14,000
	2/3/2010	6.68	5.359	-47	1163.7	<0.10				13.3										0.086	0.10	18,000
	4/22/2010	6.78	2.753	-43	1309.1	9.6				33.6												
	7/21 & 7/22/2010	6.56	2.413	18	1543.3	5.6				51.4												
	10/12/2010	6.61	5.576	-229	1518.3	<0.10				60.0												
	1/19/2011	6.84	2.245		1190.3	<0.10				76.4	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.77	2.771	-79	1258.1	19.3	<0.10	0.0	1.8	35.0	0.12	<0.050	<0.050	<0.050	<0.15	0.38	<0.070	0.072	<0.15	<0.025	0.048	12.0
	7/28/2011	6.56	7.30	-179	1474.0	<0.10	<0.10	0.0	3.1	96.0	0.25	0.092	<0.050	<0.050	<0.15	0.87	<0.070	0.068	<0.15	<0.025	0.160	9,000
	10/19/2011	6.76	1.70	40	1172.0	<0.10	<0.10	2.3	1.7	56.2	0.083	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.054	<0.15	0.029	0.280	13,000
	2/14/2012	6.76	2.024	71	1006.0	45.0	<0.80	0.0	2.6	40.8	0.010 J	<0.050	<0.050	<0.050	<0.15	0.067 J	<0.070	<0.050	<0.15	0.039	0.099	200
	4/25/2012	6.82	341	30	1198.0	18.9	<2.40	0.0	2.8	51.0	0.04 J J	<0.050	<0.050	0.918	<0.15	0.14	<0.070	<0.050	<0.15	0.011J	2.5	9,000
	8/2/2012	6.73	1.13	9	1054.0	<0.10		0.2	2.3	12.2	0.013J	<0.050	<0.050	<0.050	<0.15	0.071J	<0.070	<0.050	<0.15	0.024J	1.9	15,000
	11/15/2012	6.53	343	72	1314.0	3.4	<0.10	0.0	3.1	62	0.040J	<0.050	<0.050	<0.050	<0.15	0.032J	<0.070	<0.050	<0.15	0.034	0.11	390
	2/28/2013	6.78	2.96	88	957.6	25.1	<0.40	0.0	2.8	44.1	<0.070	<0.050	<0.10	<0.050	<0.15	0.071 J	<0.070	<0.050	<0.15	<0.025	0.018 J	54
*MMW-2S	6/2/2008	7.03			867.7																	
	4/22/2010	7.16	7.865	107	786.4																	
	4/30/2011	7.29	9.482	21	619.5																	
	4/23/2012	7.19	5.290	61	694.0																	
*MMW-3S	6/6/2008	7.02	5.05		2673.1																	
	4/20/2010	7.21	4.54	75	932.6																	
	5/4/2011	7.17	5.87	-228	892.3																	
	4/23/2012	7.16	1.018	-54	893.3																	
*MMW-4D	6/2/2008	6.95	153		1541.2																	
	4/20/2010	7.06	379	0	1209.8																	
	4/29/2011	7.07	764	-104	1227.6																	
	2/14/2012	7.08	5.95	-71	1117.0																	
	4/23/2012	7.15	242	-110	1200.0																	
	7/31/2012	7.06	181	-90	1530.0																	
	11/13/2012	6.87	6.25	-96	1660.0																	
	3/5/2013	7.01	0.20	-86	1491																	
*MMW-5D	6/2/2008	7.14			1090.6																	
	4/20/2010	7.13	304	126	1064.0																	
	4/29/2011	7.31	266	-233	1472.3																	
	4/23/2012	7.53	243	-116	667.8																	
*MMW-6D	6/6/2008	7.42	514		2907.3																	
	4/20/2010	7.41	362	51	1060.9																	
	4/29/2011	7.32	142	-251	1238.8																	
	2/14/2012	7.19	671	-34	697.9																	
	4/23/2012	7.45	95	-100	733.1																	
	7/31/2012	7.32	153	-136	767.3																	
	11/13/2012	7.11	455	-134	819.5																	
	3/5/2013	7.11	0.16	-89	834.6																	
*MMW-7S	6/6/2008	6.38	441		3118.3																	
	4/20/2010	6.84	637	200	1013.2																	
	5/4/2011	6.85	1.321	-205	1080.1																	
	4/25/2012	7.14	36	-114	632.9																	

Table 4
Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-8S	9/19/2007	7.70	2,300	-43	780.0																	
	12/13/2007	6.00		220	1.5																	
	3/20/2008		180		0.3																	
	6/6/2008		1,271		3,385.2																	
	11/20/2008	7.05	487	515	2,761.4																	
	3/16/2009	6.58	2,158	698	2647.0																	
	6/5/2009	7.08	2,439	-160	1024.3																	
	11/2/2009	7.02	1,805	-71	955.4																	
	2/3/2010	7.00	4,638	-49	840.9																	
	4/22/2010	7.06	1,303	-47	891.8																	
	7/21/2010	6.95	1,709	-32	995.1																	
	10/12/2010	7.06	124	-274	879.8																	
	1/19/2011	6.71	969		1002.3																	
	4/30/2011	6.83	200	-164	1905.7	16.3	<0.40	2.5	2.2	108	0.10	<0.050	<0.050	<0.050	<0.15	0.22	<0.070	0.065	<0.15	0.07	33.0	7,600
	7/28/2011	6.58	2,202	-47	2259.3	<0.10	<0.10	3.5	1.1	227	<0.070	<0.050	<0.050	<0.050	<0.15	0.20	<0.070	<0.050	<0.15	0.16	26.0	8,500
	10/24/2011	7.01	190	-60	1016.0	<0.10	<0.10	3.8	1.4	250	<0.070	<0.050	<0.050	<0.050	<0.15	0.45	<0.070	<0.050	<0.15	0.18	78.0	20,000
	2/14/2012	7.00	140	-106	970.1	<0.10	<0.10	5.1	1.6	213	0.017 J	<0.050	<0.050	<0.050	<0.15	0.030 J	<0.070	<0.050	<0.15	0.10	27	14,000
	4/25/2012	6.93	90	-200	986.5	<0.10	<0.10	5.0	1.6	152	0.037 J	0.054	<0.050	<0.050	<0.15	0.096 J	<0.070	<0.050	<0.15	0.094	28	12,000
	8/27/2012	6.97	74	-97	1099.0	<0.10		3.4	1.9	160	0.0075J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.093	19	14,000
	11/15/2012	6.79	284	-80	1145.0	<0.10	<0.10	1.75	1.7	192	<0.070	<0.050	<0.050	<0.050	<0.15	0.040J	<0.070	<0.050	<0.15	0.017J	10	13,000
	2/28/2013	6.98	0.27	-82	977.1	<0.10	<0.10	3.75	1.8	138	<0.070	<0.050	<0.10	<0.050	<0.15	0.061 J	<0.070	<0.50	<0.15	0.054	11	12,000
MMW-9S	9/20/2007	7.70	3,000	260	1500.0																	
	12/13/2007		9,300	180	1300.0																	
	3/21/2008		44	918	5173.4					230												
	6/6/2008	6.86			1223.7	<0.10				154	3.0	<0.070	<0.10	<0.10	<0.070	0.28	<0.070	1.1	0.22	0.10	0.48	4,400
	6/11/2008					<0.10				152												
	11/20/2008	6.49	4.19	556	4141.3	<0.10				98.5												
	3/16/2009	6.77	4,601	222	3678.1	<0.10				74.2												
	6/16/2009				12.0	<0.10				23.7												
	8/5/2009					<0.10				208												
	11/2/2009	6.56	1,861	35	1396.4	<0.10				135										0.13	160	6,200
	2/3/2010	6.55	5,596	11	1372.2	<0.10				116										0.12	150	9,400
	2/4/2010																					
	4/22/2010	6.57	1,456	-61	2012.4	<0.10				94.0												
	7/21/2010	6.58	3,403	-60	1485.9	<0.10				125												
	10/12/2010	6.56	564	-308	1540.1	<0.10				122												
	1/19/2011	6.90	2,815		1500.3	0.22				83.2	<0.070	<0.050	<0.050	<0.050	<0.15	0.21 B	<0.070	<0.050	<0.15			
	5/4/2011	6.69	235	-255	1878.6	<0.10	<0.10	6.0	3.8	189	0.094	<0.050	<0.050	<0.050	<0.15	0.34	<0.070	0.06	<0.15	1.5	82.0	12,000
	7/27/2011	6.52	4.34	-187	1635.3	<0.10	<0.10	3.2	1.7	217	<0.070	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.050	<0.15	1.6	46.0	16,000
	10/24/2011	6.62	180	-40	2035.0	<0.10	<0.10	2.3	2.6	164	0.078	<0.050	<0.050	<0.050	<0.15	0.15	<0.070	0.075	<0.15	2.2.0	1.9	7,000
	2/13/2012	6.67	103	-180	1671.0	<0.10	0.14	3.8	4.4	125	0.013 J	<0.050	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	2.0	65.0	12,000
	4/25/2012	6.64	123	-160	1864.0	<0.10	<0.10	3.0	3.8	176	0.052 J	<0.050	<0.050	<0.050	<0.15	0.13	<0.070	0.016 J	<0.15	2.0	36	7,400
	8/27/2012	6.58	38	-129	1448.0	<0.10			4.0	90.5	0.036J	<0.050	<0.050	<0.050	<0.15	0.070J	<0.070	<0.050	<0.15	0.8	28	17,000
	11/14/2012	6.66	1,504	-81	1224.0	<0.10	<0.10	1.75	4.7	62.5	0.072	<0.050	<0.050	<0.050	<0.15	0.12	<0.070	<0.050	<0.15	1.3	27	5,800
	2/28/2013	6.62	0.16	-91	1570	<0.10	<0.10	3.75	5.0	116	<0.070	<0.050	<0.10	<0.050	<0.15	0.071 J	<0.070	<0.050	<0.15	2.4	36	9,800
MMW-10S	9/19/2007	7.40	1,900	260	1400.0																	
	12/13/2007		6,000	250	1300.0																	
	3/21/2008		109		5514.0																	
	6/6/2008	6.70	2.30		1604.6																	
	9/16/2008	6.46	308		4517.3																	
	11/20/2008	6.61	545	585	4320.5																	
	3/16/2009	6.93	5,003	159	3510.4																	
	11/2/2009	6.64	1,970	-15	1653.6																	
	2/3/2010	6.63	5,474	-43	1547.1																	
	4/22/2010	6.61	1,396	-91	1835.1																	
	7/20/2010	6.62	2,423	-56	1806.6																	
	10/12/2010	6.64	951	-261	1852.2																	
	1/19/2011	6.91	2,654		1523.3																	
	5/4/2011	6.67	243	-247	1630.2	<0.10	<0.10	4.5	3.0	368	0.083	<0.070	<0.10	<0.10	<0.070	0.40	<0.070	0.063	<0.15	0.028	14.0	9,700
	7/27/2011	6.58	5.13	-158	1,734.6	<0.10	<0.10	3.0	3.4	414	<0.070	<0.070	<0.10	<0.10	0.150	0.28	<0.070	0.049	<0.15	0.15	29.0	13,000
	10/19/2011	6.73	200	-70	1,646.0	<0.10	<0.10	2.9	2.6	130	<0.070	<0.070	<0.10	<0.10	<0.070	0.12	<0.070	0.069	<0.15	0.084	12.0	10,000
	2/14/2012	6.71	169	-81	1,730.0	<0.10	<0.10	4.9	4.3	285	0.016 J	<0.070	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	0.11	21	12,000
	4/24/2012	6.77	236	-118	1,884.0	<0.10	<0.10	4.5	4.7	408	0.50	<0.05	<0.050	<0.050	<0.15	0.090 J	<0.070	0.082	<0.15	0.15	32	12,000
	8/2/2012	6.65	76	-95	1,765.0	<0.10		3.5	4.6	260	0.018J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.11	11	7,300
	11/15/2012	6.54	223	-67	1,652.0	<0.10	<0.10	2.2	3.8	139	0.051J	<0.050	0.12	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.084	9.4	9,800
	2/28/2013	6.69	0.16	-74	1,608	<0.10	0.14	4.75	5.2	257	<0.070	<0.050	<0.10	<0.050	<0.15	0.065 J	<0.070	<0.050	<0.15	0.091	11	12,000

Table 4
Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm							mg/L									ug/l	
		FIELD MEASUREMENTS				LAB RESULTS																
MW-11S	9/19/2007	7.60	2,300	220	880.0																	
	12/13/2007			300	720.0																	
	3/20/2008		200		3617.6					93.6												
	6/5 & 6/6/2008	7.13			723.8	<0.10				87.5	0.19	<0.070	<0.10	<0.10	<0.070	0.23	<0.070	<0.070	<0.070	0.26	0.21	18.0
	9/10 & 9/11/2008	6.83	338		0.3	<0.10				147												
	11/20/2008	6.99	7.62	518	2954.9	<0.10				138												
	3/16/2009	6.57	2,540	736	2987.2	5.6				187												
	6/16/2009					<0.10				202												
	8/5/2009	6.95	2,457	127	951.5	<0.10				176												
	11/2/2009	6.89	1,847	40	981.8	1.2				159										0.035	0.044	2.9
	2/3/2010	6.91	4,936	-24	1043.2	3.6				159										0.013	0.026	0.26
	4/22/2010	7.03	1,807	103	959.6	4.1				192												
	7/21 & 7/22/2010	6.97	1,751	-50	1037.3	0.20				216												
	10/12/2010	6.95	301	-217	954.2	0.48				108												
	1/19/2011	6.70	305		975.5	5.1				173	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	7.16	4,373	-30	850.1																	
	7/26/2011	6.87	250	-169	764.5																	
	10/21/2011	7.00	260	140	1108.0																	
	2/14/2012	7.03	1,601	70	997.1																	
	4/24/2012	7.11	567	66	858.0																	
	7/31/2012	7.03	92	232	992.0																	
	11/13/2012	6.90	237	107	1174.0																	
	3/4/2013	7.01	3.72	75	893.4																	
MW-11D	3/16/2009	6.61	2,969	715	2745.4																	
	8/5/2009	7.06	2,356	41	830.1																	
	11/2/2009	7.01	2,495	-23	889.3																	
	2/3/2010	6.94	4,812	-1	939.2																	
	4/22/2010	7.02	1,325	96	945.6																	
	7/21/2010	7.00	1,820	36	980.9																	
	10/12/2010	7.02	209	-221	954.0																	
	1/19/2011	6.69	292		885.7																	
	4/30/2011	7.04	349	-123	906.1																	
	7/26/2011	6.82	394	-156	689.5																	
	10/21/2011	7.10	200	0	917.0																	
	2/14/2012	7.03	266	40	997.5																	
	4/24/2012	7.11	2,467	84	959.7																	
	7/31/2012	7.00	112	23	1140.0																	
	11/13/2012	6.99	377	11	1003.0																	
	3/4/2013	6.98	0.20	49	1058																	
MW-12S	3/16/2009	6.62	4,079	606	2817.7																	
	11/2/2009	6.93	1,885	116	948.2																	
	2/3/2010	6.80	5,624	251	1038.5																	
	4/20/2010	6.99	234	170	1046.2																	
	7/20/2010	7.00	10,359	160	932.5																	
	10/12/2010	6.92	349	-155	1026.0																	
	1/18/2011	6.57	640		1050.5																	
	4/30/2011	6.92	296	-118	1075.0																	
	7/26/2011	6.76	400	-114	1006.6																	
	10/18/2011	6.50	180	220	1063.0																	
	2/14/2012	6.95	352	57	1089.0																	
	4/23/2012	7.02	74	76	1105.0																	
	7/31/2012	6.53	40	142	1060.0																	
	11/13/2012	6.32	255	59	1032.0																	
	3/4/2013	6.90	0.28	101	1066																	
MW-13D	3/16/2009	6.58	3,463	662	2420.6																	
	8/5/2009	7.20	2,502	-49	867.0																	
	11/2/2009	7.24	1,790	-61	664.9																	
	2/3/2010	7.21	5,090	-75	700.2																	
	4/22/2010	7.08	1,743	-55	828.3																	
	7/20/2010	7.17	1,906	-38	823.8																	
	10/12/2010	7.27	116	-255	759.8																	
	1/19/2011	6.64	230		697.0																	
	4/30/2011	7.18	340	-128	877.9																	
	7/26/2011	7.03	1,428	-204	913.7																	
	10/18/2011	7.28	180	-100	789.9																	
	2/14/2012	7.23	135	-82	814.1																	
	4/24/2012	7.25	169	-60	904.3																	
	7/31/2012	7.27	136	-112	942.2																	
	11/13/2012	7.23	486	-118	903.2																	
	3/4/2013	7.21	0.21	-56	749.6																	

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Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-14D	3/21/2008		78	895	5197.5																	
	6/5/2008	7.08			1003.5																	
	9/11/2008	6.95	14		0.4																	
	11/19/2008	6.90	1.070																			
	3/18/2009	6.71	8.50	780	2,193.7																	
	6/5/2009	7.14	2.440	-83	763.8																	
	11/2/2009	7.10	1.820	1	782.7																	
	2/3/2010	7.01	5.793	303	779.2																	
	4/20/2010	7.14	2.31	111	750.8																	
	7/20/2010	7.13	4.430	-55	803.6																	
	10/12/2010	7.13	2.21	-224	820.2																	
	1/18/2011	6.67	2.47		812.7																	
	4/30/2011	7.16	3.97	-150	738.4																	
	7/26/2011	6.96	2.62	-183	827.0																	
	10/19/2011	6.78	2.40	-50	844.7																	
	2/14/2012	7.16	7.93	-52	815.2																	
	4/23/2012	7.24	4.37	-93	8.0																	
	7/31/2012	6.74	5.36	-41	851.8																	
	11/13/2012	6.25	2.28	-38	960.7																	
	3/4/2013	6.82	0.22	-61	972.6																	
MMW-15S	2/15/2012	7.09	4.26	38	935.4																	
	4/26/2012	7.33	1.26	-13	804.3																	
	8/6/2012	7.02	1.67	119	878.8																	
	11/21/2012	6.96	3.95	105	859.0																	
	3/6/2013	7.05	0.46	68	832.8																	
MMW-15D	2/15/2012	7.33	4.22	-94	998.1																	
	4/26/2012	7.00	1.384	-6	920.5																	
	8/6/2012	7.39	5.9	-135	702.0																	
	11/21/2012	7.39	2.33	-149	649.0																	
	3/6/2013	7.35	0.16	-94	693.2																	
MMW-P-01	3/26/2008		21		5679.1																	
	6/7/2008		1.252		0.4																	
	11/19/2008	6.72	2.21																			
	3/17/2009	6.79	9.29	468	3419.4																	
	11/3/2009	6.74	1.774	-48	1824.2																	
	2/4/2010	6.87	6.97	-132	1530.4																	
	4/22/2010	7.07	1.376	-255	1493.8																	
	7/7/2010										2.5	<0.05	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	7/21/2010	6.78	2.113	-130	1421.3																	
	10/14/2010	6.76	2.03	-164	1382.5																	
	1/20/2011	6.79	1.354		1609.8																	
	5/5/2011	6.68	1.003	-176	1977.6	1.9	0.15	2.4	6.3	28.5	0.10	<0.070	<0.10	<0.10	<0.070	0.45	<0.070	0.071	<0.15	0.12	240	3,000
	7/28/2011	6.70	6.28	-161	1508.8	<0.10	<0.10	3.2	3.4	14.5	<0.070	<0.050	<0.050	<0.050	<0.15	0.28	<0.070	0.050	<0.15	0.76	670	13,000
	10/24/2011	6.76	1.20	-90	1694.0	<0.10	<0.10	5.0	2.6	81.5	1.0	<0.050	<0.050	<0.050	<0.15	0.82	<0.070	0.086	<0.15	0.72	1,600	12,000
	2/13/2012	6.77	8.9	-200	1737.0	<0.10	<0.10	2.9	3.8	56.0	0.021 J	<0.050	<0.050	<0.050	<0.15	0.047 J	<0.070	<0.050	<0.15	0.85	1,700	14,000
	4/25/2012	6.71	4.9	-205	1698.0	<0.10	<0.10	4.25	3.3	80.0	0.044 J	<0.050	<0.050	<0.050	<0.15	0.085 J	<0.070	<0.050	<0.15	0.6	1,300	13,000
	8/2/2012	6.74	5.6	-90	1901.0	<0.10		3.20	4.5	45.8	0.022J	<0.050	<0.050	<0.050	<0.15	0.097J	<0.070	<0.050	<0.15	0.63	1,500	15,000
	11/14/2012	6.65	2.77	-103	1889.0	<0.10	<0.10	2.25	3.2	106	0.058J	<0.050	<0.050	<0.050	<0.15	0.050J	<0.070	<0.050	<0.15	0.43	540	10,000
	3/4/2013	6.67	0.14	-83	1721	<0.10	<0.10	2.8	4.1	118	<0.070	<0.050	<0.10	<0.050	<0.15	0.057 J	<0.070	<0.050	<0.15	0.35	540	12,000
MMW-P-02	3/26/2008		1.56		4637.4																	
	6/7/2008		1.180		4112.8																	
	9/11/2008	6.88	1.01		0.3																	
	11/19/2008	6.85	5.74																			
	3/17/2009	6.70	8.52	858	3641.0																	
	11/3/2009	6.97	2.066	98	1005.2																	
	2/4/2010	6.82	6.93	272	1324.1																	
	4/22/2010	6.99	1.48	256	1346.3																	
	7/21/2010	6.92	1.838	-10	1121.8																	
	10/13/2010	6.92	2.81	-209	1089.7																	
	1/19/2011	6.74	1.617		1256.8																	
	5/4/2011	6.92	3.21	-245	1263.9	<0.10	<0.10	1.8	1.7	33.2	0.13	<0.070	<0.10	<0.10	<0.070	0.32	<0.070	0.076	<0.15	1.1	1,600	17,000
	7/27/2011	6.86	3.22	-225	1083.8	<0.10	<0.10	2.5	1.0	190	<0.070	<0.050	<0.050	<0.050	<0.150	0.28	<0.070	<0.050	<0.15	1.2	240	4,300
	10/19/2011	6.93	2.10	-50	1174.0	<0.10	<0.10	2.2	1.4	84.2	0.08	<0.050	<0.050	<0.050	<0.150	0.44	<0.070	0.069	<0.15	1.4	670	13,000
	2/13/2012	6.78	1.055	-5	1285.0	0.12	<0.10	3.0	3.3	85.5	0.43	<0.050	<0.050	<0.050	<0.150	0.027 J	<0.070	<0.050	<0.15	1.4	140	12,000
	4/25/2012	6.84	7.5	-179	1437.0	<0.10	<0.10	2.9	2.1	105	0.039 J	<0.050	<0.050	<0.050	<0.150	0.16	<0.070	<0.050	<0.15	1.6	180	13,000
	8/1/2012	6.80	-7.4	-74	1415.0	<0.10		3.0	2.3	93.5	<0.070	<0.050	<0.050	<0.050	<0.15	0.018J	<0.070	<0.050	<0.15	1.5	160	15,000
	11/14/2012	6.72	1.45	-132	1579.0	<0.10	<0.10	2.75	2.9	14.4	<0.070	<0.050	0.67J	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.20	570	12,000
	3/4/2013	6.83	0.15	-88	1286	<0.10	<0.10	1.25	2.7	69.4	<0.070	<0.050	<0.10	<0.050	<0.15	0.070 J	<0.070	<0.050	<0.15	1.20	74	15,000

Table 4
Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-03S	3/20/2008				5093.3					86.8												
	6/5, 6/6 & 6/7/2008		1.176		4004.7	<0.10				84.9	31.0	0.45	0.14	<0.10	0.12	1.400	1.200	31.0	0.37	5.3	0.82	59.0
	9/11/2008					<0.10				117												
	11/19/2008	6.84	1.27			<0.10				43.8												
	3/17/2009	6.66	8.12	809	3372.1	<0.10				42.1												
	6/17/2009					<0.10				<5.0												
	8/6/2009					<0.10				9.4												
	11/3/2009	6.91	1.783	-81	1162.9	<0.10				8.1										2.1	7.1	17,000
	2/3 & 2/4/2010	6.85	7.51	-63	1303.5	<0.10				38.4										0.63	11.0	18,000
	4/22/2010	6.92	1.70	-63	970.5	<0.10				18.8												
	7/21/2010	6.75	2.016	-72	1300.2	<0.10				<5.0												
	10/13/2010	6.88	2.70	-27.4	1333.0	<0.10				21.4												
	1/19/2011	6.77	1.417		905.3																	
	5/4/2011	6.83	2.34	-28.7	1227.4	<0.10	<0.10	2.8	4.2	<5.0	4.1	<0.070	<0.10	<0.10	<0.070	0.37	<0.070	0.23	<0.15	9.6	4.10	21,000
	7/27/2011	6.75	4.12	-17.5	1290.2	<0.10	<0.10	5.0	2.3	51.4	0.06	<0.050	<0.050	<0.050	<0.150	0.31	<0.070	0.051	<0.15	0.8	1,200	14,000
	10/19/2011	6.84	1.90	-90	1416.0	<0.10	<0.10	3.2	2.0	35.5	0.08	<0.050	<0.050	<0.050	<0.150	0.34	<0.070	0.071	<0.15	2.0	9.30	17,000
	2/13/2012	6.83	1.71	-44	924.0	<0.10	<0.10	2.5	2.9	39.8	0.25	<0.050	<0.050	<0.050	<0.150	0.045 J	<0.070	<0.050	<0.15	0.5	1.70	14,000
	4/25/2012	6.85	8.9	-22.6	971.7	<0.10	<0.10	2.0	2.4	46.8	0.078	<0.050	<0.050	<0.050	<0.150	0.14	<0.070	<0.050	<0.15	0.81	6.70	14,000
	8/1/2012	6.87	7.9	-13.3	1151.0	<0.10		2.0	3.4	9.9	0.260	<0.050	<0.050	<0.050	<0.15	0.11	<0.070	0.041J	<0.15	1.70	1,500	17,000
	11/14/2012	6.86	1.74	-17.7	729.6	<0.10	<0.10	2.2	1.9	32.0	0.0421	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.74	2.40	12,000
	3/4/2013	6.83	0.16	-13.7	784.2	<0.10	<0.10	2.75	3.1	27.9	<0.070	<0.050	<0.10	<0.050	<0.15	0.053 J	<0.070	<0.050	<0.15	1.1	8.0	12,000
MMW-P-03D	3/20/2008		5.6		1718.8																	
	6/5 & 6/6/2008					<0.10				46.0	53.0	0.43	<0.10	<0.10	0.23	1.2	0.380	24.0	0.85	0.39	0.94	1,200
	9/11/2008					<0.10				22.3												
	11/19/2008					<0.10				<5.0												
	3/17/2009	6.65	8.06	757	3253.2	<0.10				<5.0												
	6/17/2009					<0.10				6.8												
	8/6/2009					<0.10				32.1												
	11/3/2009	6.83	1.791	-48	1408.3	<0.10				<5.0										2.2	4.8	17,000
	2/4/2010	6.67	6.61	64	1350.5	<0.10				<5.0										2.7	8.3	25,000
	4/22/2010	6.86	1.43	-16	1143.8	<0.10				<5.0												
	7/21/2010	6.81	2.235	-12.5	1084.8	<0.10				6.8												
	10/13/2010	6.73	2.69	-24.6	1358.0	<0.10				<5.0												
	1/19/2011	6.28	2.351		1149.7	<0.10				25.8	0.80	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.82	2.67	-29.4	1194.9	<0.10	<0.10	2.9	3.8	35.5	0.22	<0.070	<0.10	<0.10	<0.070	0.48	<0.070	0.084	<0.15	0.40	1.10	14,000
	7/27/2011	6.81	3.67	-19.2	1284.7	<0.10	<0.10	5.3	1.8	25.6	0.34	<0.050	<0.050	<0.050	<0.15	0.25	<0.070	0.067	<0.15	25.0	1,400	26,000
	10/18/2011	6.87	1.50	-15.0	1377.0	<0.10	<0.10	2.9	9.5	10.7	18.0	0.13	<0.050	<0.050	<0.15	<0.10	<0.070	1.0	<0.15	5.8	2,200	20,000
	2/13/2012	6.90	2.00	-26	1158.0	<0.10	<0.10	3.1	10.1	<5.0	18	0.092	<0.050	<0.050	0.084 J	0.46 J	<0.070	0.50	<0.15	5.0	2,400	24,000
	4/25/2012	6.81	5.1	-22.9	1374.0	<0.10	<0.10	3.2	25.0	<5.0	52	0.68	<0.050	<0.050	0.22	1.2	<0.070	1.0	0.055 J	8.4	2,400	24,000
	8/1/2012	6.82	3.5	-15.9	1415.0	<0.10		4.5	7.3	<5.0	8.6	0.046J	<0.050	<0.050	<0.15	<0.10	<0.070	0.38	<0.15	18.0	3,200	21,000
	11/14/2012	6.75	1.57	-18.9	1085.0	<0.10	<0.10	2.5	11.3	8.8	16.0	0.083	<0.050	<0.050	0.055J	<0.10	<0.070	0.43J	<0.15	47.0	8.20	20,000
	3/4/2013	6.82	0.11	-13.4	1210	<0.10	<0.10	2.7	4.3	19.9	0.57	<0.050	<0.10	<0.050	<0.15	0.044 J	<0.070	0.014 J	<0.75	67	1,000	22,000
MMW-P-04	3/20/2008		2.33		0.3																	
	6/6/2008	6.87			1416.9																	
	9/11/2008	7.03			0.5																	
	11/19/2008	6.96	8.11																			
	2/12/2010	6.89	1.005	199	827.4																	
	4/21/2010	6.95	2.37	-47	808.1																	
	7/23/2010	6.74	3.591	-40	964.2																	
	10/13/2010	6.68	8.69	-20.3	1025.3																	
	5/5/2011	7.07	1.389	-18.5	1036.9	1.2	0.18	0.0	43.0	26.9	2.3	0.10	0.64	0.24	<0.070	1.4	<0.070	0.46	<0.15	0.044	11.0	10,000
	7/28/2011	6.67	1.011	-17.4	1363.1	<0.10	<0.10	4.7	18.1	<0.10	24	0.22	<0.050	<0.050	<0.15	<1.0	<0.070	1.7	<0.15	0.44	5.70	18,000
	10/24/2011	6.87	5.20	-15.0	874.0	<0.10	<0.10		11.6	39.8	5.0	0.11	<0.050	<0.050	<0.15	0.3	<0.070	0.31	<0.15	1.7	26.0	18,000
	2/17/2012	6.81	9.90	-20.0	694.8	<0.10	<0.10	2.5	5.5	<5.0	1.6	0.072	<0.050	<0.050	<0.15	0.2	<0.070	0.33	<0.15	0.2	6.4	19,000
	5/1/2012	6.70	9.94	-20.2	769.2	<0.10	<0.10	2.1	4.2	15.4	1.4	0.053	<0.050	<0.050	<0.15	<1.0	<0.070	0.029 J	<0.15	0.1	3.2	19,000
	8/8/2012	Insufficient water to sample																				
	11/21/2012	6.82	9.73	-22.7	726.5			3.1														
	3/9/2013	Sampled with bailer				<0.10	<0.10		Container froze at lab. unable to analyze	5.1	18	3.30	2.2	<0.05	0.42	0.13	1.3	16	0.42	0.47	5.4	18000

Table 4
Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-05	3/20/2008				6086.2																	
	6/5/2008	6.86			1150.6																	
	9/11/2008	7.06			0.3																	
	11/19/2008	6.79	8.70	3,652																		
	3/17/2009	6.61	8.64	838	2669.5																	
	11/3/2009	6.98	1.842	-70	1036.9																	
	2/4/2010	6.98	7.24	-63	787.2																	
	4/22/2010	6.99	1.663	-26	1003.1																	
	7/21/2010	6.86	2.067	-80	1101.5																	
	10/13/2010	6.93	250	-240	917.8																	
	1/20/2011	6.69	174		987.9																	
	4/30/2011	6.99	209	-257	1036.9															0.025	58.0	9,900
	7/27/2011	6.80	607	-184	1436.7															0.23	1,300	15,000
	10/19/2011	7.11	2.30	-120	559.7															0.12	93.0	3,700
	2/13/2012	6.99	1.12	-286	822.8	<0.10	<0.10	1.9	19.0	59.5	4.2	0.065	<0.050	<0.050	0.055 J	<1.0	<0.070	0.26 J	<0.15	0.20	63	11,000
	4/25/2012	7.00	65	-251	734.1	<0.10	<0.10	3.0	3.8	46	0.3	<0.050	<0.050	<0.050	<0.15	0.15	<0.070	0.034 J	<0.15	0.20	51	7,200
	8/27/2012	7.21	60	-124	466.5	<0.10		1.2	1.5	39.1	0.013J	<0.050	<0.050	<0.050	<0.15	0.11J	<0.070	<0.050	<0.15	0.21	15	1,800
	11/14/2012	6.94	237	-215	907.0	<0.10	<0.10	1.2	4.2	86.8	0.24	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.19	4.8	6,300
	3/4/2013	6.98	0.14	-152	759.4	<0.10	<0.10	3.0	27.1	44.3	10	0.38	<0.10	<0.050	0.069 J	<0.10	0.029 J	1.7	0.10 J	0.47	17.0	6,400
MMW-P-06	3/20 & 3/21/2008		29	900	4293.5					62.6												
	6/5 & 6/6/2008	7.07			980.4	<0.10				30.5	60.0	1.7	<0.10	<0.10	0.21	1.4	1.2	29.0	0.44	0.47	0.54	290
	9/11/2008	6.82			0.7	<0.10				39.1												
	11/19/2008	6.85	7.15			<0.10				130												
	3/17/2009	6.69	1,083	710	3864.4	<0.10				9.4												
	6/17/2009					<0.10				61.7												
	8/6/2009					<0.10				29.7												
	11/3/2009	6.89	1,631	-105	1276.4	<0.10				73.2										1.9	200	18,000
	2/4/2010	7.04	7.25	-86	927.1	<0.10				10.3										0.66	300	15,000
	4/22/2010	6.93	1.405	-106	1129.2	0.10				15.3												
	7/21/2010	6.96	2.001	-112	1448.3	<0.10				38.7												
	10/14/2010	6.94	162	-121	1194.9																	
	1/20/2011	6.80	1.082		1263.5	<0.10				65.8	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.89	2.25	-296	1338.1															0.51	2,400	17,000
	7/28/2011	6.85	8.12	-198	1302.6															0.92	3,700	20,000
	10/24/2011	6.92	160	-80	1169.0															0.78	2,500	14,000
	2/13/2012	6.90	141	-213	1132.0	<0.10	<0.10	2.0	3.9	38.0	0.370	<0.050	<0.050	<0.050	<0.15	0.048 J	<0.070	<0.050	<0.15	0.87	1,800	17,000
	4/26/2012	6.64	7.1	-231	172.0	<0.10	<0.10	3.25	4.4	65.5	1.200	<0.050	<0.050	<0.050	<0.15	0.240	<0.070	0.031	<0.15	1.0	1,300	17,000
	8/27/2012	6.85	7.4	-96	1263.0	<0.10		2.8	3.7	54.5	0.069J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.010	<0.050	<0.15	0.92	1,100	15,000
	11/14/2012	6.82	204	-191	1237.0	<0.10	<0.10	3.1	2.3	82.5	0.063J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.010	<0.050	<0.15	0.74	500	16,000
	3/4/2013	6.78	0.11	-125	1242	<0.10	<0.10	2.25	4.4	44.1	0.98	<0.050	<0.10	<0.050	<0.15	0.045 J	<0.010	<0.050	<0.15	0.75	620	17,000
MMW-P-07	3/21/2008		9	937	6055.8																	
	6/7/2008		1.200		5032.7																	
	9/11/2008	6.74			0.7																	
	11/19/2008	6.53	846																			
	3/17/2009	6.83	880	745	4022.3																	
	11/3/2009	6.62	1.745	-72	2224.1																	
	2/4/2010	6.72	721	-92	1800.3																	
	4/22/2010	6.68	1.400	-154	1924.8																	
	7/22/2010	6.60	3.369	-55	1605.5																	
	10/14/2010	6.59	359	-148	2187.6																	
	1/20/2011	6.74	1.377		1347.0																	
	5/4/2011	6.67	349	-242	1632.1	<0.10	<0.10	3.0	3.9	97.5	2.0	<0.050	<0.050	<0.050	<0.15	0.50	<0.070	0.15	<0.15	0.049	520	6,000
	7/28/2011	8.33	765	-161	2098.5	<0.10	<0.10	3.8	4.0	33.1	3.9	0.14	<0.050	<0.050	<0.15	0.98	<0.070	0.23	<0.15	0.12	480	8,100
	10/24/2011	6.66	1.10	-60	1492.0	<0.10	<0.10	3.8	2.1	31.6	0.078	<0.050	<0.050	<0.050	<0.15	0.46	<0.070	0.071	<0.15	0.31	330	12,000
	2/13/2012	6.79	541	-167	1754.0	<0.10	<0.10	2.9	3.3	82.5	0.52	0.041 J	<0.050	<0.050	<0.15	0.023 J	<0.070	<0.050	<0.15	0.26	190	12,000
	4/25/2012	6.69	77	-209	1841.0	<0.10	<0.10	4.25	3.3	73.5	0.020 J	<0.050	<0.050	<0.050	<0.15	0.051 J	<0.070	<0.050	<0.15	0.28	360	8,900
	8/2/2012	6.71	84	-98	1747.0	<0.10		4.6	3.5	30.5	0.033J	<0.050	<0.050	<0.050	<0.15	0.037J	<0.070	<0.050	<0.15	0.46	95	16,000
	11/12/2012	6.63	275	-120	2295.0	<0.10	<0.10	2.5	4.0	81.0	0.051J	<0.050	<0.050	<0.050	<0.15	0.055J	<0.070	<0.050	<0.15	0.13	180	6,200
	3/4/2013	6.72	0.15	-106	1945	<0.10	<0.10	2.25	7.0	81.4	0.13	0.023 J	<0.10	<0.050	<0.15	0.050 J	<0.070	<0.050	<0.15	0.16	250	5,700

Table 4
Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-08	3/20 & 3/21/2008	2.29	245		3645.7					129												
	6/5 & 6/6/2008	7.00			1118.2	0.12				<5.0	0.12	<0.070	<0.10	<0.10	<0.070	0.22	<0.070	<0.070	<0.070	0.30	2.0	2,800
	9/10 & 9/11/2008	7.29	467		0.3	<0.10				<5.0												
	11/19/2008	7.00	1.129			<0.10				7.2												
	3/17/2009	6.77	8.76	674	4083.5	<0.10				5.1												
	6/17/2009					<0.10				5.0												
	8/6/2009					<0.10				38.3												
	11/3/2009	6.52	1.676	-74	1547.6	<0.10				23.6										0.081	3.20	8,000
	2/4/2010	6.63	6.31	-86	1629.4					<5.0										0.075	6.40	17,000
	4/22/2010	6.74	1.408	-202	1804.3	<0.10				8.5												
	7/22/2010	6.79	3.994	-70	939.3	<0.10				34.0												
	10/14/2010	6.65	3.95	-175	1923.7	<0.10				<5.0												
	1/28/2011	6.79	1.907		1965.5	<0.10				21.0	19.0	0.27	<0.050	<0.050	<0.15	<0.10	<0.070	2.1	<0.15			
	5/4/2011	6.81	221	-272	920.7	<0.10	<0.10	3.0	6.2	44.5	0.16	0.10	<0.050	<0.050	<0.15	0.26	<0.070	0.077	<0.15	0.34	4.30	6,800
	7/27/2011	6.54	5.97	-146	2323.7	<0.10	<0.10	3.8	3.0	18.5	0.096	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.050	<0.15	0.098	5.00	6,400
	10/24/2011	6.68	1.10	-90	1308.0	<0.10	<0.10	2.8	2.9	59.0	0.10	<0.050	<0.050	<0.050	<0.15	0.16	<0.070	0.074	<0.15	0.28	2.10	3,200
	2/13/2012	6.68	8.1	-220	1663.0	<0.10	<0.10	2.9	5.5	52.0	0.040 J	<0.050	<0.050	<0.050	<0.15	0.020 J	<0.070	<0.050	<0.15	3.4	2.20	8,000
	4/23/2012	6.62	2.7	-224	1709.0	<0.10	<0.10	3.2	4.6	87.0	0.056 J	<0.050	<0.050	<0.050	<0.15	0.12	<0.070	<0.050	<0.15	11	1.70	12,000
	8/27/2012	6.69	1.9	-111	1623.0	<0.10		4.2	3.9	48.2	0.034J	<0.050	<0.050	<0.050	<0.15	<0.15	<0.070	<0.050	<0.15	4.5	3.90	9,200
	11/14/2012	6.61	1.27	-162	1868.0	<0.10	<0.10	3.10	4.2	36.3	0.030J	<0.050	<0.050	<0.050	<0.15	0.044J	<0.070	<0.050	<0.15	9.30	2.30	7,000
	3/4/2013	6.64	0.10	-107	1625	<0.10	<0.10	2.50	5.0	16.2	0.074	0.035 J	<0.10	<0.050	<0.15	0.058 J	<0.070	<0.050	<0.15	12	3.20	9,200
MMW-P-09S	3/20/2008	2.49	2.30		3920.3	1.5				78.7												
	6/5 & 6/6/2008	6.97			963.6	5.1				161	3.5	<0.070	0.26	<0.10	<0.070	0.29	0.14	5.3	<0.070	0.033	<0.025	8.0
	9/10 & 9/11/2008	7.13	2.00		0.3	<0.10				114												
	11/19/2008	7.09	1.108			<0.10				133												
	3/17/2009	6.52	1.019	858	2249.3	0.72				82.4												
	6/16/2009					1.1				64.0												
	8/7/2009					0.60				45.7												
	11/3/2009	6.92	2.892	174	8.10.2	0.78				87.2										<0.025	0.037	6.5
	2/3 & 2/4/2010	6.94	3.997	-51	701.4	0.58				85.8										<0.025	<0.025	4.7
	4/22/2010	7.05	2.699	69	640.1	0.62				44.8												
	7/22/2010	7.00	5.477	27	1077.9	0.80				92.4												
	10/13/2010	6.89	1.026	-105	725.6	0.10				57.4												
	1/19/2011	6.56	1.732		711.5	0.10				106	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	7.12	5.228	0	587.1																	
	7/26/2011	6.78	1.473	-85	882.4																	
	10/18/2011	6.90	7.60	160	850.9																	
	2/15/2012	6.95	2.621	164	786.3																	
	4/24/2012	7.08	1.364	30	706.7																	
	8/1/2012	6.94	5.37	88	866.6																	
	11/13/2012	6.93	8.03	196	678.9																	
	3/5/2013	6.96	1.84	87	650.2																	
MMW-P-09D	3/20/2008	1.40	1.07		8894.3																	
	6/7/2008		4.43		3784.4																	
	11/19/2008	6.85	1.106		NS																	
	3/17/2009	6.57	8.19	834	2616.0																	
	11/3/2009	7.11	1.717	-59	897.8																	
	2/3/2010	7.10	4.243	-78	862.0																	
	4/22/2010	7.12	1.360	-64	884.7																	
	7/22/2010	7.18	3.702	-59	929.0																	
	10/13/2010	7.08	6.94	-282	903.0																	
	1/19/2011	6.12	1.079		788.7																	
	4/30/2011	7.17	3.47	-184	851.5																	
	7/26/2011	6.98	5.67	-198	919.1																	
	10/21/2011	7.17	2.00	-80	855.0																	
	2/15/2012	7.15	2.83	-103	830.4																	
	4/24/2012	7.24	2.54	-128	879.9																	
	8/1/2012	7.16	3.18	-95	920.5																	
	11/13/2012	7.13	1.70	-102	861.4																	
	3/5/2013	7.10	0.26	-87	856.5																	

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Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-10S	3/20/2008	1.73			4589.7	0.52				50.8												
	6/5, 6/6 & 6/7/2008		1.078		3508.2	<0.10				71.8	0.11	<0.070	<0.10	<0.10	<0.070	0.21	<0.070	<0.070	<0.070	0.16	1.3	50.0
	9/11/2008	7.04	45		0.4	<0.10				111												
	11/19/2008	6.85	1.034			<0.10				34.4												
	3/17/2009	6.77	863	653	3958.2	<0.10				54.6												
	6/17/2009					<0.10				9.4												
	8/6/2009					<0.10				<5.0												
	11/3/2009	6.83	1.566	-112	705.5	<0.10				9.5										0.77	27.0	2,300
	2/4/2010	6.65	614	-93	1863.5	<0.10				69.2										1.7	230	14,000
	4/22/2010	6.97	1.564	-200	971.3	<0.10				15.8												
	7/21/2010	6.91	1.895	-105	900.8	<0.10				<5.0												
	10/14/2010	6.63	404	-154	1681.7	<0.10				85.8												
	1/28/2011	6.74	1.102		1009.0	0.12				29.2	4.7	0.15	<0.050	<0.050	<0.15	<0.10	<0.070	0.26	<0.15			
	5/5/2011	7.51	101	-34.1	329.6	<0.10	<0.10	1.8	2.7	17.6	0.16	<0.050	<0.050	<0.050	<0.15	0.37	<0.070	<0.050	<0.15	2.2	6.1	5,800
	7/27/2011	6.69	543	-170	1583.3	<0.10	<0.10	3.2	3.7	87.9	<0.070	<0.050	<0.050	<0.050	<0.15	0.21	<0.070	0.052	<0.15	1.4	120	13,000
	10/21/2011	6.90	110	-90	592.0	<0.10	<0.10	2.1	1.7	13.9	0.078	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.070	<0.15	1.8	22.0	4,300
	2/13/2012	6.90	112	-221	653.0	<0.10	<0.10	3.1	2.3	17.1	0.18	<0.050	<0.050	<0.050	<0.15	0.13	<0.070	<0.050	<0.15	2.8	15	9,000
	4/25/2012	6.86	45	-233	672.6	<0.10	<0.10	2.5	1.9	15.4	0.075	<0.050	<0.050	<0.050	<0.15	0.092 J	<0.070	<0.050	<0.15	4.0	30	10,000
	8/2/2012	6.69	50	-115	1721.0	<0.10		3.8	3.6	116	0.014J	<0.050	0.17	<0.050	<0.15	0.031J	<0.070	<0.050	<0.15	4.6	75	12,000
	11/14/2012	6.67	171	-163	1107.0	<0.10	<0.10	2.0	3.1	26.6	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	2.2	10	7,400
	2/28/2013	6.67	0.15	-103	1271	<0.10	<0.10	2.75	4.4	35.5	<0.070	<0.050	<0.10	<0.050	<0.15	0.046 J	<0.070	<0.050	<0.15	3.2	11	11,000
MMW-P-10D	6/7/2008	1.71	1.134		4183.6																	
	3/17/2009	6.64	536	574	2733.7																	
	11/3/2009	6.80	1.699	-98	1104.1																	
	2/4/2010	6.76	619	-101	992.6																	
	4/22/2010	7.05	1.371	-192	857.0																	
	7/22/2010	6.83	2.694	-27	913.1																	
	10/14/2010	6.68	351	-165	1341.4																	
	1/28/2011	6.74	1.155		1338.7						0.072	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/5/2011	7.08	160	-300	597.7	<0.10	<0.10	1.8	2.8	43.0	0.10	<0.050	<0.050	<0.050	<0.15	0.19	<0.070	0.071	<0.15	1.2	200	18,000
	7/27/2011	6.82	539	-162	1073.2	<0.10	<0.10	5.0	2.1	64.1	<0.070	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	1.8	530	23,000
	10/21/2011	6.86	160	-80	1039.0	<0.10	<0.10	2.3	1.7	55.0	0.10	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.078	<0.15	1.3	580	20,000
	2/13/2012	6.75	210	-184	1233.0	<0.10	<0.10	3.75	3.7	112	0.014 J	0.036 J	<0.050	<0.050	<0.15	0.025 J	<0.070	0.011 J	<0.15	2.6	260	16,000
	4/25/2012	6.79	85	-221	1225.0	<0.10	<0.10	3.5	2.5	76.5	0.036 J	<0.050	<0.050	<0.050	<0.15	0.17	<0.070	<0.050	<0.15	1.7	190	23,000
	8/2/2012	6.83	26	-109	1123.0	<0.10		2.7	2.9	87.5	0.011J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.3	140	20,000
	11/14/2012	6.76	159	-159	1359.0	<0.10	<0.10	2.7	5.0	84.5	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	2	160	22,000
	2/28/2013	6.83	0.13	-104	1070	<0.10	<0.10	2.75	2.9	82.1	<0.070	<0.050	<0.10	<0.050	<0.15	0.058 J	<0.070	<0.050	<0.15	0.68	43	17,000
MMW-P-11S	10/24/2011	6.97	490	-100	802.3	<0.10	<0.10	0.2	1.7	166	0.082	<0.050	<0.050	<0.050	<0.15	0.21	<0.070	0.070	<0.15	6.2	0.097	690
	2/16/2012	6.95	578	-58	913.2	0.60	<0.10	1.7	1.9	13.2	0.013 J	<0.050	<0.050	<0.050	<0.15	0.072 J	<0.070	<0.070	<0.15	0.15	2.8	1,600
	5/1/2012	6.94	353	-108	860.7	<0.10	<0.10	2.75	1.6	20.3	0.026 J	<0.050	<0.050	<0.050	<0.15	0.084 J	<0.070	0.014 J	<0.15	0.19	5.9	1,300
	8/7/2012	7.00	31	-61	777.0	<0.10		3.2	1.7	18.9	0.017 J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.22	5.6	980
	11/15/2012	6.77	315	-27	1154.0	<0.10	<0.10	1.2	1.8	14.8	0.046J	<0.050	<0.050	<0.050	<0.15	0.035J	<0.070	<0.050	<0.15	0.18	3.8	5,200
	3/6/2013	6.95	1.27	-4	953.2	0.32	<0.10		2.0	18.3	<0.070	<0.050	<0.10	<0.050	<0.15	0.057 J	<0.070	<0.050	<0.15	0.16	1.2	1,300
MMW-P-11DR	2/16/2012	7.02	134	-104	1244.0	<0.10	<0.10	3.8	2.0	27.5	0.031 J	<0.050	<0.050	<0.050	<0.15	0.040 J	<0.070	<0.070	<0.15	1.4	6.8	3,800
	5/1/2012	6.96	233	-97	1289.0	<0.10	<0.10		1.9	27.5	0.024 J	<0.050	<0.050	<0.050	<0.15	0.079 J	<0.070	<0.050	<0.15	1.1	7.4	1,000
	8/7/2012	6.98	28	-81	1401.0	<0.10		3.1	2.1	21.9	0.034 J	<0.050	<0.050	<0.050	<0.15	0.042 J	<0.070	<0.050	<0.15	1.3	7.7	590
	11/15/2012	6.87	140	-72	1291.0	<0.10	<0.10		1.8	14.7	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.2	19	6,200
	3/6/2013	7.02	0.10	-75	1155	<0.10	<0.10	2.75	2.0	16.5	<0.07	<0.05	<0.10	<0.05	<0.15	0.050 J	<0.070	<0.050	<0.15	1.3	12	1,400
MMW-P-12S	10/24/2011	7.05	240	-80	1106.0	<0.10	<0.10	2.1	1.4	15.6	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.070	<0.15	1.3	0.83	24
	2/15/2012	7.07	267	-76	1092.0	<0.10	<0.10	3.0	1.7	16.2	0.010 J	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.070	<0.15	0.92	0.65	94
	5/1/2012	6.97	76	-121	1173.0	<0.10	<0.10		1.6	17.6	0.026 J	<0.050	<0.050	<0.050	<0.15	0.093 J	<0.070	<0.050	<0.15	0.86	0.26	28
	8/7/2012	7.01	59	-102	1058.0	<0.10		2.7	1.9	13.5	0.019 J	<0.050	<0.050	<0.050	<0.15	0.040 J	<0.070	<0.050	<0.15	0.85	0.32	17
	11/15/2012	6.97	7.26	-101	1164.0	<0.10	<0.10	1.2	1.7	14.6	0.052J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.88	0.67	33
	3/6/2013	6.99	0.29	-78	1088	<0.10	<0.10	2.1	2.0	14.8	<0.07	<0.05	<0.10	<0.05	<0.15	0.08 J	<0.07	<0.05	<0.15	0.69	0.27	19
MMW-P-12D	10/24/2011	7.17	210	-100	1070.0	<0.10	<0.10	2.1	1.9	12.4	0.22	<0.050	<0.050	<0.050	<0.15	1.2	<0.070	0.13	<0.15	1.5	0.77	26
	2/15/2012	7.11	216	-84	1227.0	<0.10	<0.10	2.0	1.9	16.4	0.0075 J	<0.050	<0.050	<0.050	<0.15	0.040 J	<0.070	<0.070	<0.15	1.2	0.7	18
	5/1/2012	7.03	106	-214	1323.0	<0.10	<0.10	2.5	1.8	13.5	0.022 J	0.041 J	<0.050	<0.050	<0.15	0.089 J	<0.070	0.014 J	<0.15	1.1	0.65	24
	8/7/2012	7.05	30	-118	1320.0	<0.10		3.0	2.0	26.2	0.017 J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.1	0.4	19
	11/15/2012	7.00	531	-116	1437.0	<0.10	0.67	0.75	1.9	16.5	0.052J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.2	0.65	20
	3/6/2013	7.04	0.12	-83	1286.0	<0.10	<0.10	2.0	2.1	18.1	<0.070	<0.050	<0.10	<0.050	<0.15	0.064 J	<0.070	<0.050	<0.15	0.91	0.33	23
MMW-P-13S	10/24/2011	7.03	1.350	70	925.3	0.75	<0.10	0.0	1.4	19.5	0.09	<0.050	<0.050	<0.050	<0.15	0.34	<0.070	0.070	<0.15	0.18	0.18	3.8
	2/16/2012	7.02	8.865	171	550.3																	
	4/26/2012	7.06	8.078	80	566.0																	
	8/7/2012	6.78	6.19	280	1109.0																	
	11/15/2012	6.95	4.503	105	1114.0																	
	3/7/2013	7.04	8.36	111	556.0																	

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Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/L		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-13D	10/24/2011	7.20	190	-110	909.0	<0.10	<0.10	3.5	1.8	131	0.08	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	2.0	1.3	20.0
	2/16/2012	7.17	176	-95	8450.7																	
	4/26/2012	7.13	105	-83	871.0																	
	8/7/2012	8.99	9	-102	998.0																	
	11/19/2012	7.11	340	-68	1294.0																	
	3/7/2013	7.12	0.22	-81	944.0																	
MMW-P-14S	2/16/2012	6.91	2.198	85	822.1																	
	4/26/2012	6.87	1.885	83	1242.0																	
	8/7/2012	6.92	364	221	1172.0																	
	11/28/2012	6.83	891	80	1213.0																	
	3/7/2013	6.91	2.52	74	1037																	
MMW-P-14D	2/16/2012	7.07	384	-49	1074.0																	
	4/26/2012	7.02	88	-50	1114.0																	
	8/7/2012	7.10	21	-75	1080.0																	
	11/28/2012	7.02	308	-89	1376.0																	
	3/7/2013	7.06	0.50	-29	1045																	
MW-165D	7/7/2010										<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
*MW-167S	4/21/2010	6.93	173	102	1212.3																	
	4/29/2011	7.10	7.894	75	916.5																	
	5/2/2012	6.82	168	-106	1626.0																	
	8/3/2012	Insufficient water to sample																				
	3/8/2013	Sampled with bailer																				
*MW-167D	6/7/2008	0.08	454		2800.6																	
	4/21/2010	7.22	163	64	803.3																	
	4/29/2011	7.14	251	-116	910.1																	
	2/16/2012	7.14	142	-88	995.8																	
	5/2/2012	7.14	45	-78	855.8																	
	8/3/2012	7.11	147	-88	994.2																	
	11/16/2012	7.15	316	-94	852.1																	
	3/8/2013	7.08	0.43	-34	1242																	
MW-168S	3/20/2008					2.2				251												
	6/5 & 6/6/2008	6.76			1395.0	3.8				190	0.12	<0.070	<0.10	<0.10	<0.070	0.21	<0.070	<0.070	<0.070	0.052	<0.025	17.0
	9/11/2008					1.1				6.8												
	4/22/2010					<0.10				140												
	4/25/2012	Insufficient water to sample																				
	3/8/2013	Sampled with bailer																				
MW-168D	3/20/2008									109												
	6/5/2008	6.92			1283.4	<0.10				31.0												
	9/11/2008									114												
	11/20/2008	6.88	530	504	3318.8	<0.10				39.3												
	3/17/2009	6.64	871	795	2948.1	<0.10				43.0												
	6/16/2009					<0.10				50.5												
	8/7/2009					<0.10																
	11/3 & 11/4/2009	6.77	7.162	-107	1070.8	<0.10				59.4										0.55	22.0	16,000
	2/4/2010	6.87	469	-74	941.8	<0.10				50.8										0.41	11.0	15,000
	4/21/2010	6.86	190	53	1128.5	<0.10				79.7												
	7/22/2010	6.94	4.678	-53	1194.6	<0.10				82.2												
	10/13/2010	6.77	350	-230	1184.4	<0.10				80.8												
	4/29/2011	6.93	206	-199	1056.7																	
	7/28/2011	6.75	526	-163	1476.1																	
	10/24/2011	6.87	200	-100	1209.0																	
	2/17/2012	6.89	136	-174	1131.0																	
	5/2/2012	6.79	27	-179	1383.0																	
	8/3/2012	6.87	35	-92	1243.0																	
	11/16/2012	6.90	211	-104	1186.0																	
	3/8/2013	6.94	0.18	-84	1018																	
*MW-169S	4/21/2010	7.05	228	-49	848.4																	
	4/29/2011	6.91	3.567	19	975.4																	
	5/2/2012	Insufficient water to sample																				
	6/7/2008		636		3354.6																	
*MW-169D	4/21/2010	7.13	207	-53	783.5																	
	4/29/2011	7.04	232	-177	880.0																	
	5/2/2012	7.00	87	-148	1062.0																	
MW-170S	6/3/2008	7.09	187		1437.8																	
	4/21/2010	7.02	162	90	1489.9																	
	4/29/2011	6.99	486	-44	1241.0																	
	2/16/2012	6.93	483	79	1718.0																	
	5/2/2012	6.93	768	118	1486.0																	
	8/3/2012	6.89	379	300	1564.0																	
	11/16/2012	6.93	2.316	171	1484.0																	
	3/8/2013	6.90	0.31	161	1377																	

Table 4
Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 1 - 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm							mg/L									ug/l	
		FIELD MEASUREMENTS				LAB RESULTS																
MW-170D	6/3/2008		7		969.5																	
	7/7/2010										<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/21/2010	7.11	190	87	1148.6																	
	4/29/2011	7.12	282	-142	1039.7																	
	2/16/2012	7.02	243	-74	1698.0																	
	5/2/2012	7.00	82	-62	1587.0																	
	8/3/2012	7.04	68	-62	1690.0																	
	11/16/2012	7.04	200	-119	1224.0																	
	3/8/2013	7.03	0.13	-84	1234																	
*MW-171S	6/7/2008	7.21	6.26		2714.6																	
	4/29/2011	6.98	4.282	70	798.8																	
	5/2/2012	6.80	7.2	211	791.5																	
	3/8/2013	6.90	0.31	161	1377																	
*MW-171D	6/7/2008	7.32	4.15		3178.5																	
	4/21/2010	7.07	171	16	846.3																	
	7/22/2010	7.05	4.607	-47	1001.9																	
	4/29/2011	7.01	377	-164	887.8																	
	5/2/2012	6.96	46	-174	891.3																	
	3/8/2013	7.02	0.13	-84	1234																	
MW-C-01	9/10/2008	7.51	4.77		0.3																	
	11/20/2008	6.79	4.91	480	2907.9																	
	3/17/2009	6.57	7.70	693	2702.0														3			
	11/3/2009	6.92	1.765	-100	983.5																	
	2/3/2010	6.94	3.818	-59	758.5																	
	4/21/2010	7.10	174	57	723.4																	
	7/22/2010	6.96	5.588	47	792.0																	
	10/13/2010	6.93	3.883	-29	834.6																	
	1/19/2011	6.77	1.522		741.5																	
	5/5/2011	7.41	9.253	-75	463.2	14.7	<0.40	0.0	<1.0	31.2	0.110	<0.050	<0.050	<0.050	<0.15	0.28	<0.070	<0.050	<0.15	<0.025	<0.025	0.14
	7/27/2011	6.80	7.07	-190	1156.7	0.79	<0.10	0.0	1.8	113	<0.070	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	0.12	1.70	12,000
	10/21/2011	6.92	3.40	-30	756.5	0.79	<0.10	1.2	2.4	89.0	0.10 J	<0.050	<0.050	<0.050	<0.15	0.37	<0.070	0.086	<0.15	0.081	.94	12,000
	2/15/2012	6.98	1.682	-31	780.0	7.7	<0.10	2.0	1.9	73.5	0.007 J J	<0.050	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	0.22	5.6	10,000
	4/24/2012	7.05	1.78	-64	791.4	<0.10	<0.10	2.75	2.2	71.0	0.034 J	<0.050	0.27	<0.050	<0.15	0.11	<0.070	<0.050	<0.15	0.20	24	12,000
	8/1/2012	6.97	1.90	-96	828.6	<0.10		2.2	2.5	36.2	0.006 J	<0.050	<0.050	<0.050	<0.15	0.094 J	<0.070	<0.050	<0.15	0.13	3.7	14,000
	11/15/2012	6.50	5.10	-31	757.3	0.43	<0.10	1.2	2.2	68.0	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.026	2.3	11,000
	3/8/2013	6.91	0.84	-1	847.6	4.5	<0.10	0.75	2.1	114.0	<0.070	<0.050	<0.10	<0.050	<0.15	0.082	<0.070	<0.050	<0.15	0.15	0.56	8,100
MW-C-02S	11/20/2008	6.97	9.31	476	2806.7																	
	3/17/2009	6.55	8.11	867	2506.9																	
	11/3/09	6.80	1.811	24	784.9																	
	2/3/2010	6.77	3.782	76	778.9																	
	4/21/2010	6.92	177	202	786.3																	
	7/22/2010	6.88	2.670	30	755.8																	
	10/13/2010	6.80	2.12	-175	717.4																	
	1/19/2011	6.58	1.651		705.0	0.14				76.8	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	6.89	3.184	-17	689.2																	
	7/27/2011	6.72	6.94	-146	811.9																	
	10/18/2011	6.82	1.60	80	779.9																	
	2/15/2012	6.83	1.56	27	747.9																	
	4/24/2012	6.92	2.12	17	738.5																	
	8/1/2012	6.94	2.02	-8	657.5																	
	11/13/2012	6.27	1.66	11	665.5																	
	3/8/2013	6.82	0.37	33	707.4																	
MW-C-02D	2/15/2012	7.03	1.65	-105	902.3																	
	4/26/2012	7.03	57	-158	809.9																	
	8/8/2012	8.03	4.0	-139	918.0																	
	11/19/2012	6.93	4.86	-102	1,226.0																	
	3/7/2013	6.98	0.12	-78	855.9																	
MW-C-16S	8/6/2012	6.69	108	4	1141.0																	
	11/19/2012	6.59	8.07	5	1373.0																	
	3/6/2013	6.68	0.34	25	1106																	
MW-C-16D	8/6/2012	6.96	4.2	-101	1241.0																	
	11/19/2012	6.92	4.72	-83	1368.0																	
	3/6/2013	6.89	0.13	-84	1246																	
MW-C-17D	8/6/2012	7.17	7.8	-114	910.0																	
	11/20/2012	7.06	2.93	-140	1183.0																	
	3/7/2013	7.12	0.10	-118	857.0																	

Notes

Sampling locations outlined in GREEN have been identified as "Indicator Compound Locations." These locations will be sampled quarterly for VOCs, Nitrate/Nitrite, Sulfate, Methane, Ethane, Ethene, Volatile Fatty Acids and Ferrous Iron, beginning 2nd Quarter 2011.

Gray shading indicates that no data is available. Lack of data is generally due to equipment malfunction in the field or absence of the parameter from the quarterly sampling plan.

* Indicates sampling locations at the Site sampled on an **ANNUAL** basis. All other sampling locations are sampled quarterly.

J Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
GP-01 (15.5') (MMW-P-01)	8/18/2004	<0.005	<0.005	0.0054	<0.005	<0.002
GP-02 (7') (MMW-P-02)	8/18/2004	0.035	<0.005	<0.005	<0.005	<0.002
GP-03 (16') (MMW-P-03D)	8/18/2004	0.23	<0.005	<0.005	<0.005	<0.002
GP-04 (16') (MMW-P-04)	8/18/2004	0.2	<0.005	<0.005	<0.005	<0.002
GP-05 (17') (MMW-P-05)	8/13/2004	<0.005	<0.005	<0.005	<0.005	<0.002
GP-06 (13-14') (MMW-P-06)	9/26/2005	<0.005	<0.005	<0.005	<0.005	<0.002
GP-06 (9-10') (MMW-P-06)	9/26/2005	<0.005	<0.005	<0.005	<0.005	<0.002
GP-20 (16.0-18.0')	12/7/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-20 (40.0-42.0')	12/7/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-21 (18.0-20.0')	12/7/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-21 (40.0-42.0')	12/7/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-22 (18.0-20.0')	12/8/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-22 (36.0-38.0')	12/8/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-23 (17.0-19.0')	12/8/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-23 (39.0-40.0')	12/8/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-24 (17.0-19.0')	12/12/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-25 (18.0-20.0')	12/9/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-26 (18.0-20.0')	12/9/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-27 (17.0-18.0')	12/8/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-28 (17.0-19.0')	12/9/2011	<0.005	<0.005	<0.005	<0.005	<0.002

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
GP-29 (16.0-18.0')	12/14/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-30 (16.0-18.0')	12/13/2011	<0.005	<0.005	<0.005	<0.005	<0.002
GP-30 (35.0-35.5')	12/13/2011	<0.005	<0.005	<0.005	<0.005	0.0268
GP-31 (16.0-17.5')	12/13/2011	0.0685	<0.005	<0.005	<0.005	<0.002
GP-A-01 (4-5')	9/26/2005	<0.005	<0.005	<0.005	<0.005	<0.002
GP-A-02 (7-8')	9/27/2005	<0.005	<0.005	<0.005	<0.005	<0.002
GP-A-06 (19-20')	1/11/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-A-07 (11-12')	1/12/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-A-08 (14-15')	1/12/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-A-09 (15-17')	1/12/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-C-01 (18-19')	1/12/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-C-01 (7-8')	1/12/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-C-02 (15-16')	1/12/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-C-03 (14-15')	1/15/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-C-04 (15-16')	1/15/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-C-05 (17-19')	1/15/2007	<0.005	<0.005	<0.005	<0.005	<0.002
GP-C-06 (12-14') (MMW-C-01)	7/31/2008	0.0128	<0.0054	<0.0054	<0.0054	<0.0054
GP-C-06 (18-20') (MMW-C-01)	7/31/2008	0.226	<0.0053	<0.0053	<0.0053	<0.0053

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
GP-C-06 (28')	7/31/2008	0.0151	<0.0054	0.0268	<0.0054	<0.0054
GP-C-07 (22-24')	7/31/2008	<0.0062	<0.0062	0.0238	<0.0062	<0.0062
GP-C-08 (18-20')	7/31/2008	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
GP-C-08 (18-20')	7/31/2008	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
GP-C-08 (24')	7/31/2008	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
GP-C-08 (24')	7/31/2008	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
GP-C-09 (26-28') (MMW-C-02)	8/1/2008	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
GP-C-09 (26-28') (MMW-C-02)	8/1/2008	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
MMW-01S (14-15')	9/10/2004	2.1	0.019	<0.005	<0.005	<0.002
MMW-02S (13')	9/10/2004	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-03S (9-10')	9/10/2004	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-04D (9-10')	9/10/2004	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-05D (11')	9/10/2004	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-06D (11-12')	9/10/2004	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-07S (15.5-16.5')	9/10/2004	<0.005	<0.005	0.028	<0.005	<0.002
MMW-08S (14-15')	1/11/2007	11	0.018	<0.005	<0.005	<0.002
MMW-09S (15-16')	1/11/2007	4.1	0.11	0.081	0.014	<0.002
MMW-09S-A (16-18')	3/6/2013	0.0439	0.0051	4.02	0.0161	0.192
MMW-09S-A (32-34')	3/6/2013	<0.0040	<0.0040	<0.0040	<0.0040	0.0066
MMW-10S (14-16')	1/11/2007	19	0.023	<0.005	<0.005	<0.002

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MMW-10S-A (10-12')	3/6/2013	1.64	<0.0052	<0.0052	<0.0052	<0.0052
MMW-10S-A (34-36')	3/6/2013	<0.0038	<0.0038	<0.0038	<0.0038	0.0256
MMW-11S (8-10')	11/21/2008	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
MMW-12S (10-12')	11/24/2008	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
MMW-13D (6-8')	11/21/2008	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
MMW-13D-A (56-58')	3/11/2013	<0.005	<0.005	0.197	<0.005	0.0147
MMW-13D-A (58-60')	3/11/2013	<0.0037	<0.0037	0.0806	<0.0037	0.0103
MMW-14D (6')	12/10/2008	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
MMW-14D-A (44-46')	3/7/2013	<0.0048	<0.0048	4.98	0.0055	0.0263
MMW-14D-A (50-52')	3/7/2013	<0.005	<0.005	2.93	<0.005	0.0262
MMW-15D (13.0-15.0')	12/14/2011	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-15D (38.5-39.0')	12/14/2011	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-C-02D (17.5-19.0')	12/5/2011	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-C-02D (40.0-42.0')	12/6/2011	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-P-02-A (12-14')	3/7/2013	0.118	<0.0049	<0.0049	<0.0049	<0.0049
MMW-P-02-A (20-22')	3/7/2013	60.4	2.85	3.64	<0.114	<0.114
MMW-P-03D-A (38-40')	3/7/2013	<0.004	<0.004	<0.004	<0.004	0.0124
MMW-P-04A (16-18')	3/8/2013	0.198	<0.0043	<0.0043	<0.0043	<0.0043
MMW-P-07 (19-20')	1/11/2007	26	0.12	0.064	0.0074	<0.002
MMW-P-07-A (20-22')	3/8/2013	0.016	<0.0041	2.88	0.0148	0.982

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MMW-P-08 (19-20')	1/11/2007	9	0.18	0.065	0.005	<0.002
MMW-P-10S (16-17')	5/31/2007	0.0809	0.0108	< 0.0052	< 0.0052	< 0.0052
MMW-P-10D-A (22-24')	3/8/2013	<0.0033	<0.0033	0.0041	<0.0033	0.0108
MMW-P-10D-A (32-34')	3/8/2013	<0.0048	<0.0048	<0.0048	<0.0048	0.0311
MMW-P-10D-A (36-38')	3/8/2013	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
MMW-P-11D (29.0')	8/31/2011	<0.005	<0.005	<0.005	<0.005	0.0475
MMW-P-11D (39.0')	8/31/2011	<0.005	<0.005	<0.005	<0.005	0.0361
MMW-P-12D (26.0')	9/1/2011	<0.005	<0.005	0.221	<0.005	0.035
MMW-P-12D (36.0')	9/1/2011	<0.005	<0.005	0.125	<0.005	0.0648
MMW-P-13D (24.0')	8/31/2011	<0.005	<0.005	<0.005	<0.005	0.0868
MMW-P-13D (32.0')	8/31/2011	<0.005	<0.005	<0.005	<0.005	0.0479
MMW-P-14D (19.0-20.0')	12/6/2011	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-P-14D (38.0-40.0')	12/6/2011	<0.005	<0.005	<0.005	<0.005	<0.002
MMW-C-16D (18-20')	6/4/2012	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
MMW-C-16D (36-38')	6/5/2012	<0.0040	<0.0040	<0.0040	<0.0040	0.0646
DUP-1 (MMW-C-16D (36-38'))		<0.0038	<0.0038	<0.0038	<0.0038	0.0782
MMW-C-16D (40-42')	6/5/2012	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034
MMW-C-17D (18-20')	6/5/2012	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
MMW-C-17D (38.0-38.8')	6/5/2012	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-01 (14-15')	2/3/2009	0.012	<0.005	<0.005	<0.005	<0.002
SB-01 (6-7')	2/3/2009	0.010	<0.005	<0.005	<0.005	<0.002
SB-01(11-12')	2/3/2009	<0.005	<0.005	<0.005	<0.005	<0.002
SB-02 (11-12')	2/3/2009	0.006	<0.005	<0.005	<0.005	<0.002
SB-02 (7-8')	2/3/2009	<0.005	<0.005	<0.005	<0.005	<0.002
SB-02 (15-16')	2/3/2009	0.017	<0.005	<0.005	<0.005	<0.002
SB-03 (2-3')	2/3/2009	0.071	<0.005	<0.005	<0.005	<0.002
SB-03 (11-12')	2/3/2009	6.09	<0.005	<0.005	<0.005	<0.002
SB-03 (15-16')	2/3/2009	3.60	<0.005	<0.005	<0.005	<0.002
SB-04 (10-11')	2/3/2009	0.118 E	<0.005	<0.005	<0.005	<0.002
SB-04 (16-17')	2/3/2009	8.43	<0.005	<0.005	<0.005	<0.002
SB-04 (6-7')	2/3/2009	0.061	<0.005	<0.005	<0.005	<0.002
SB-05 (15-16')	2/5/2009	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
SB-05 (3-4')	2/5/2009	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
SB-05 (9-10')	2/5/2009	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061
SB-06 (5-6')	2/5/2009	0.0059	<0.0053	<0.0053	<0.0053	<0.0053
SB-06 (7-8')	2/5/2009	0.0065	<0.0052	<0.0052	<0.0052	<0.0052
SB-06 (14-15')	2/5/2009	0.0264	<0.0059	<0.0059	<0.0059	<0.0059
SB-07 (15-16')	2/4/2009	0.010	<0.005	<0.005	<0.005	<0.002
SB-07 (3-4')	2/4/2009	0.009	<0.005	<0.005	<0.005	<0.002

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-07 (10-11')	2/4/2009	0.010	<0.005	<0.005	<0.005	<0.002
SB-08 (12-13')	2/16/2009	0.0739	<0.0051	<0.0051	<0.0051	<0.0051
SB-08 (15-16')	2/16/2009	0.168	<0.0052	<0.0052	<0.0052	<0.0052
SB-08 (5-6')	2/16/2009	0.02	<0.0052	<0.0052	<0.0052	<0.0052
SB-09 (12-13')	2/16/2009	0.0104	<0.0052	<0.0052	<0.0052	<0.0052
SB-09 (15-16')	2/16/2009	0.0183	<0.0052	<0.0052	<0.0052	<0.0052
SB-09 (6-7')	2/16/2009	0.0065	<0.0052	<0.0052	<0.0052	<0.0052
SB-10 (14-16')	2/17/2009	0.0858	<0.0052	<0.0052	<0.0052	<0.0052
SB-10 (4-6')	2/17/2009	0.0181	<0.0052	<0.0052	<0.0052	<0.0052
SB-10 (8-10')	2/17/2009	0.0234	<0.0052	<0.0052	<0.0052	<0.0052
SB-11 (12-13')	2/13/2009	7.69	0.0364	0.0067	<0.0053	<0.0053
SB-11 (5-6')	2/13/2009	3.89	0.0253	<0.0052	<0.0052	<0.0052
SB-11 (8-9')	2/13/2009	4.32	0.034	<0.0052	<0.0052	<0.0052
SB-12 (13-14')	2/13/2009	6.29	0.0359	0.0123	<0.0052	<0.0052
SB-12 (17-18')	2/13/2009	19.1	0.0849	0.0458	<0.0053	<0.0053
SB-12 (18-19')	2/13/2009	53.4	0.154	1.66	0.0154	0.0378
SB-13 (10-11')	2/13/2009	1.64	0.0557	0.0458	<0.0054	<0.0054
SB-13 (17-18')	2/13/2009	55	0.105	0.831	0.0081	0.246
SB-13 (9-10')	2/13/2009	1.41	0.0452	0.0325	<0.0055	<0.0055
SB-14 (13-14')	2/13/2009	21	0.0135	0.0086	<0.0054	<0.0054

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-14 (16-17')	2/13/2009	31.6	0.0154	0.0073	<0.0053	<0.0053
SB-14 (17-18')	2/13/2009	41.1	0.0276	<0.0058	<0.0058	<0.0058
SB-15 (12-14')	2/17/2009	7.64	0.0117	<0.0052	<0.0052	<0.0052
SB-15 (4-6')	2/17/2009	0.11	<0.0054	<0.0054	<0.0054	<0.0054
SB-15 (8-10')	2/17/2009	0.13	<0.0052	<0.0052	<0.0052	<0.0052
SB-16 (12-14')	2/17/2009	0.091	0.0080	0.0504	<0.0054	<0.0054
SB-16 (4-6')	2/17/2009	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058
SB-16 (8-10')	2/17/2009	0.011	<0.0056	<0.0056	<0.0056	<0.0056
SB-17 (10-12')	2/17/2009	10.5	0.0096	<0.0055	<0.0055	<0.0055
SB-17 (12-14')	2/17/2009	30.6	0.0158	<0.0053	<0.0053	<0.0053
SB-17 (4-6')	2/17/2009	0.0772	<0.0058	<0.0058	<0.0058	<0.0058
SB-100 (8-10')	3/6/2013	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
SB-100 (32-33')	3/6/2013	<0.0037	<0.0037	<0.0037	<0.0037	0.0244
SB-101 (14-16')	3/6/2013	37.3	0.0708	0.0363	<0.0045	<0.0045
SB-101 (26-28')	3/6/2013	<0.0045	<0.0045	0.0986	<0.0045	0.0345
SB-101 (40-42')	3/6/2013	0.0072	<0.0043	0.0796	<0.0043	0.0059
SB-102 (12-14')	3/7/2013	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-103 (4-6')	3/8/2013	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
SB-103 (16-18')	3/8/2013	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
SB-103 (34-36')	3/8/2013	<0.0046	<0.0046	1.26	0.0098	0.0141

Table 5
Cumulative Soil Analytical Results
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEM RISC Industrial Default Cleanup Level		0.64	0.35	5.8	14	0.027
IDEM RISC Residential Default Cleanup Level		0.058	0.057	0.4	0.68	0.013
IDEM RISC Industrial Direct Contact		16	24	140	230	6.4
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sewer Exc. (4')	10/1/2007	0.243	0.0577	0.0117	<0.0056	<0.0056
Sewer Exc. (9')	10/1/2007	2.3	0.0554	0.0154	<0.0055	<0.0055
TP-3-1 (2')	4/27/2005	0.049	<0.005	<0.005	<0.005	<0.002
TP-3-2 (2')	4/27/2005	0.073	<0.005	<0.005	<0.005	<0.002
TP-3-3 (4')	4/27/2005	0.0096	<0.005	<0.005	<0.005	<0.002
TP-3-4 (4')	4/27/2005	0.067	<0.005	<0.005	<0.005	<0.002
TP-3-5 (6')	4/27/2005	0.06	<0.005	<0.005	<0.005	<0.002
TP-3-6 (6')	4/27/2005	0.081	<0.005	<0.005	<0.005	<0.002
TP-3-7 (6')	4/27/2005	0.053	<0.005	<0.005	<0.005	<0.002

FIGURES

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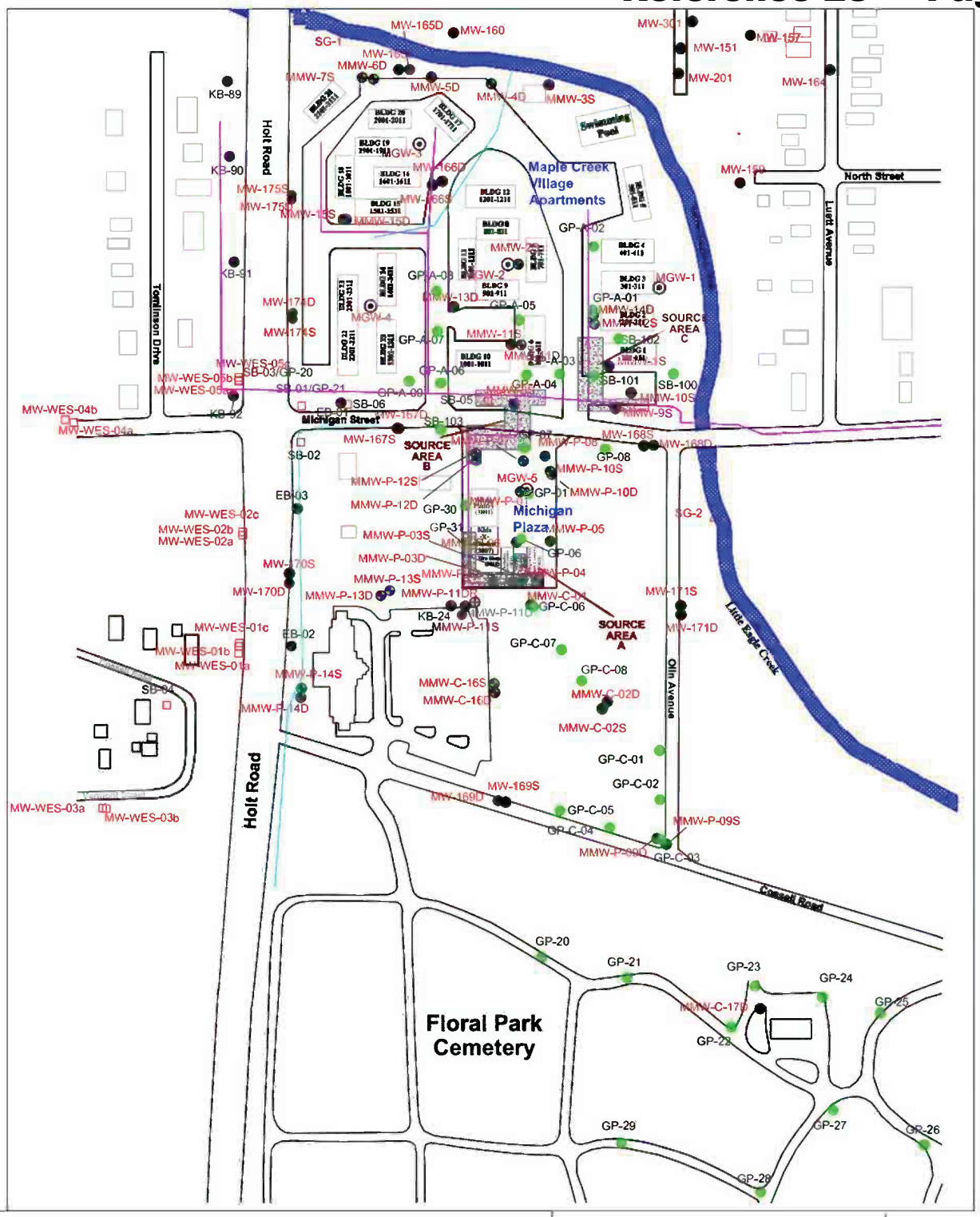
Figure 17	PCE Concentration Trends & Cumulative Pounds Removed (B1 through B4)
Figure 18	PCE Concentration Trends & Cumulative Pounds Removed (B5 through B7)



LEGEND

——	Fence
MMW-P-06 ⊕	MUNDELL Monitoring Well
MW-160/ KB-90 ●	ENVIRON Monitoring Well/Soil Boring
MW-WES-O1A/ SB-02 □	U.S. EPA Monitoring Well/Soil Boring
SG-1 △	Stream Gauge Location
MGW-O1 ⊙	MUNDELL Soil Gas Well
GP-29 ●	Soil Boring
——	Sanitary Sewer
——	Storm Sewer

**Note that soil borings were advanced adjacent to monitoring wells MMW-8S, MMW-9S, MMW-10S, MMW-11D, MMW-13D, MMW-14D, MMW-P-02, MMW-P-03D, MMW-P-04, MMW-P-07, and MMW-P-10D, in March of 2013.

N

SCALE 0 200 feet

ENVIRON/Keramida/EPA Monitoring Well Locations Referenced from December, 2011 EPA Survey.

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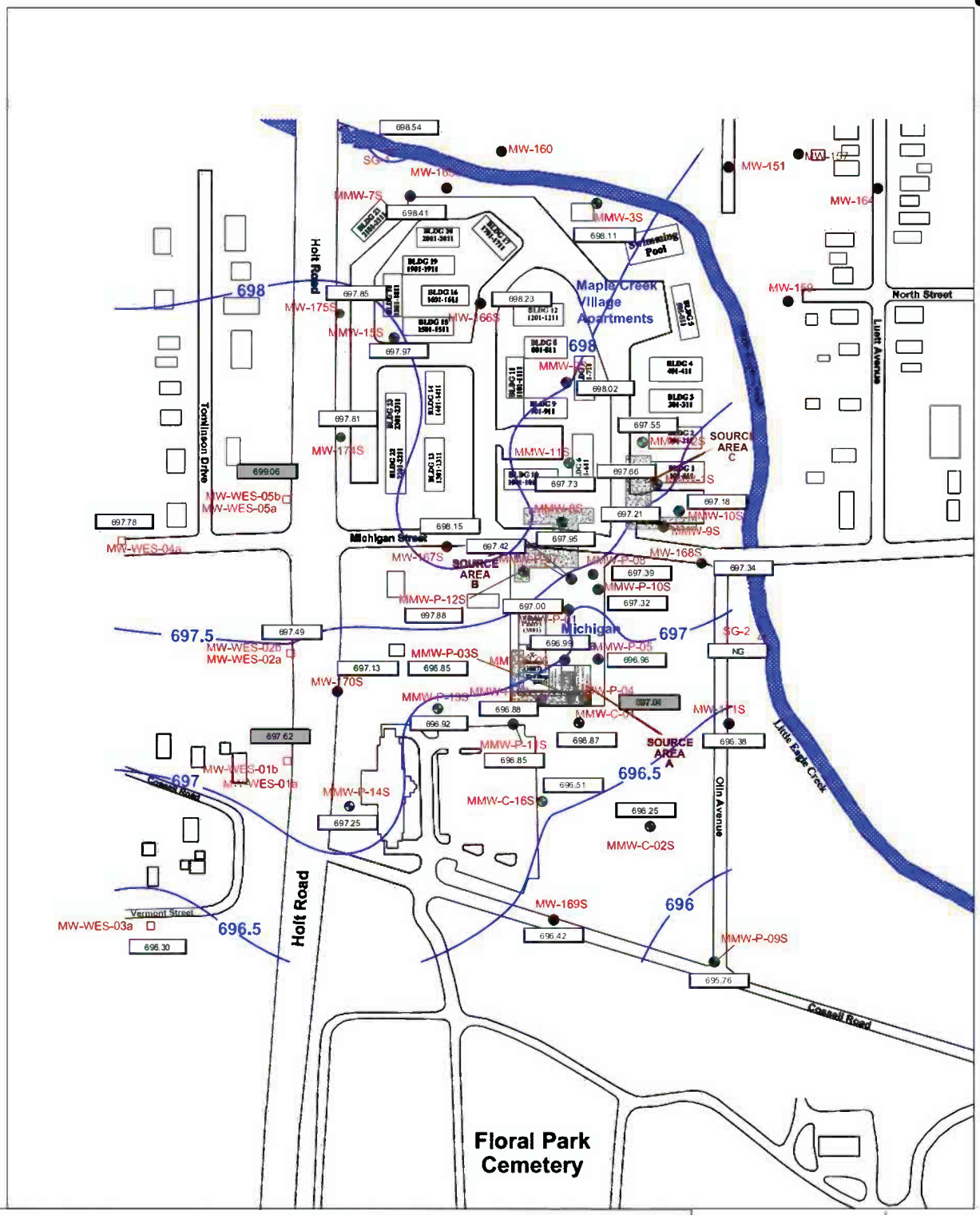
Project Number:	M01046
Drawing File:	1Q13 QMR
Date Prepared:	04-11-13
Scale:	1"=200'

SITE PLAN

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 1



LEGEND

MMW-P-06	MUNDELL Monitoring Well	NG = Not Gauged
MW-160	ENVIRON Monitoring Well	696.68 — Static water elevation (ft-MSL)
MW-WES-O1A	U.S. EPA Monitoring Well	695.64 — Static water elevation not used to contour potentiometric surface map.
SG-1	Stream Gauge Location	
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet	

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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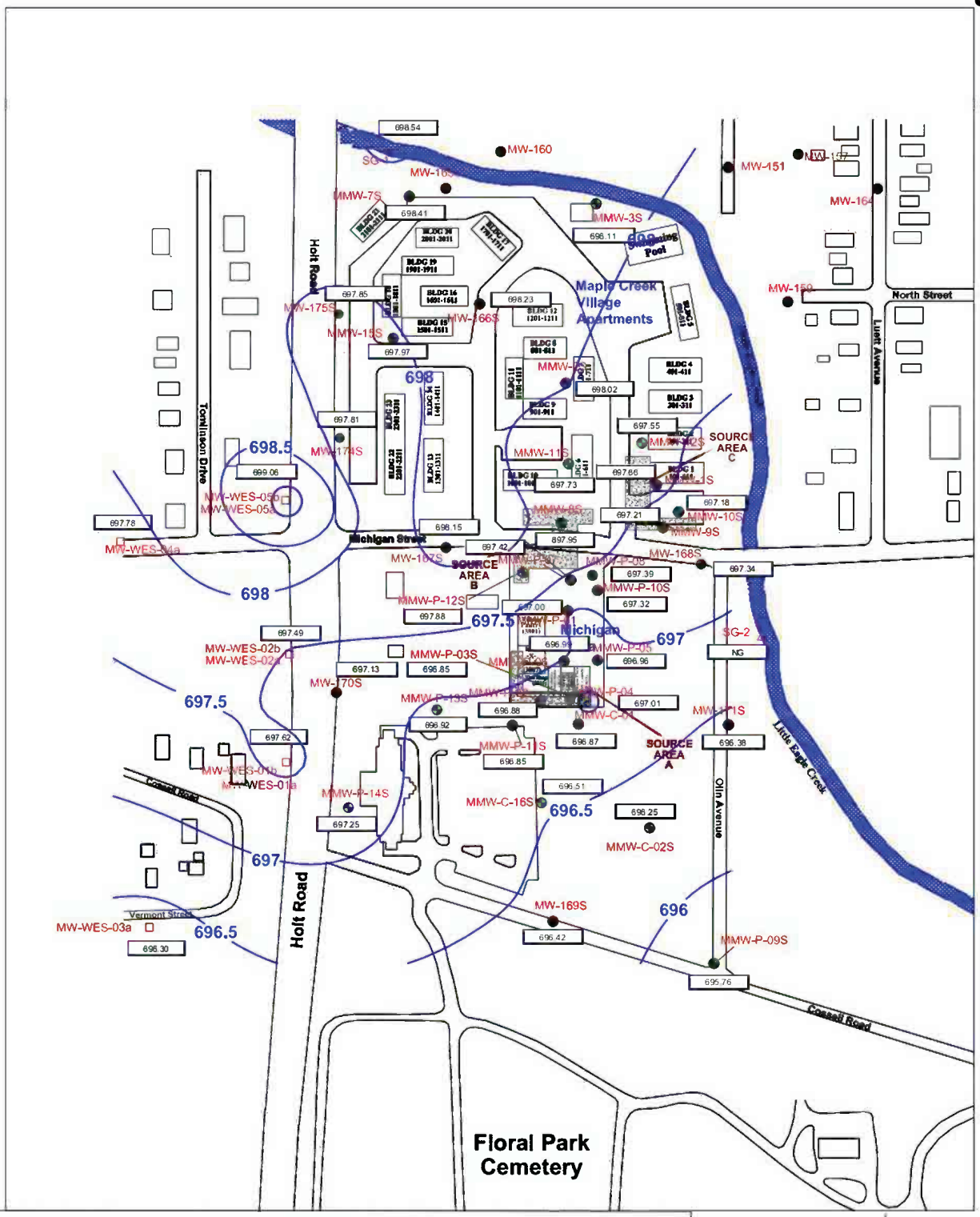
Drawing File:	1Q13 QMR
Date Prepared:	4-23-13
Scale:	1"=200'

SHALLOW POTENTIOMETRIC SURFACE - 1ST QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 2A



LEGEND

MMW-P-06	MUNDELL Monitoring Well	NG = Not Gauged
MW-160	ENVIRON Monitoring Well	696.68 — Static water elevation (ft-MSL)
MW-WES-O1A	U.S. EPA Monitoring Well	695.64 — Static water elevation not used to contour potentiometric surface map.
SG-1	Stream Gauge Location	
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet	

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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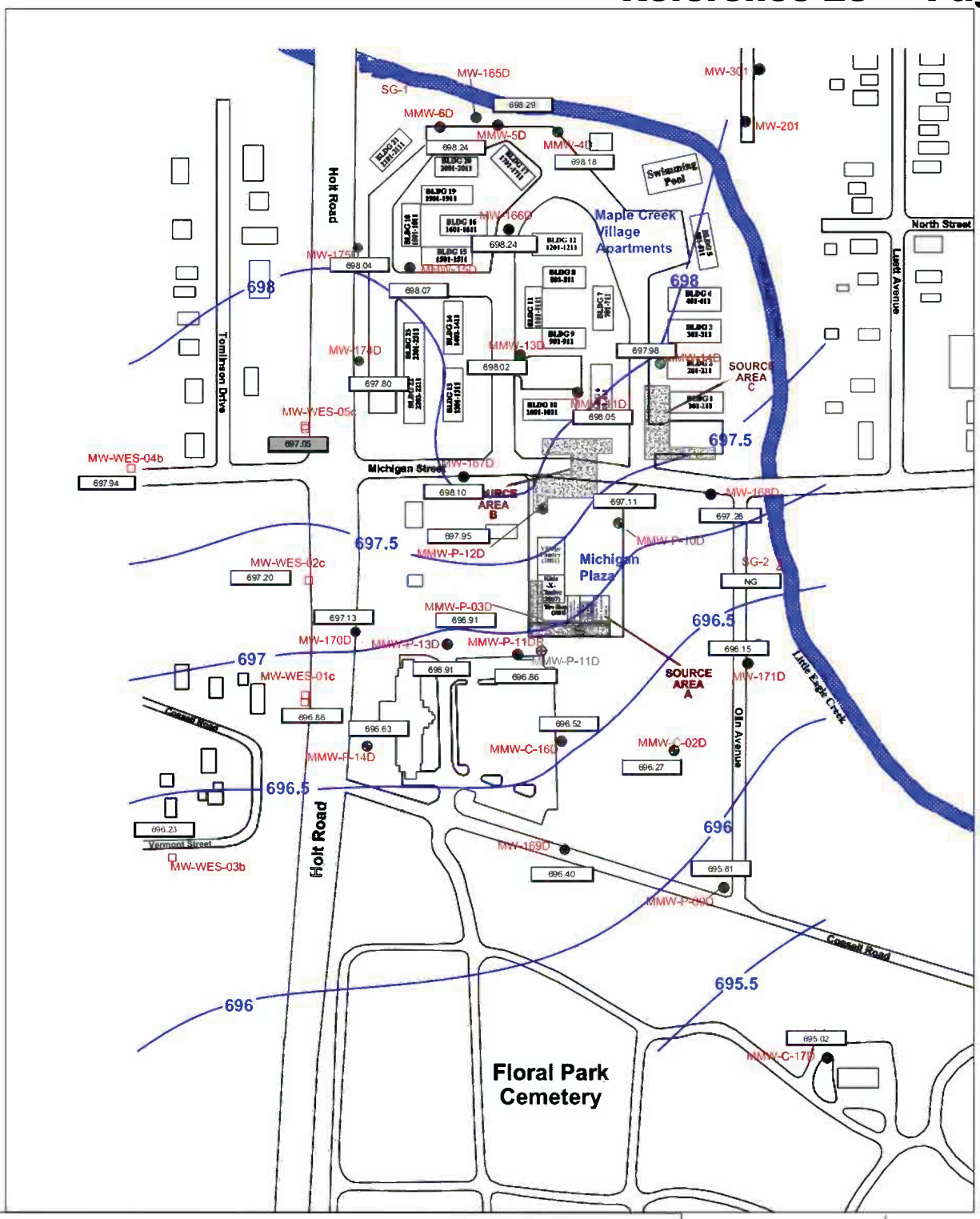
Date Prepared:	4-23-13
Scale:	1"=200'

SHALLOW POTENTIOMETRIC SURFACE - 1ST QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 2B



LEGEND

MMW-P-06	MUNDELL Monitoring Well	696.68	Static water elevation (ft-MSL)
MW-160	ENVIRON Monitoring Well	695.64	Static water elevation not used to contour potentiometric surface map.
MW-WES-O1A	U.S. EPA Monitoring Well		
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet		

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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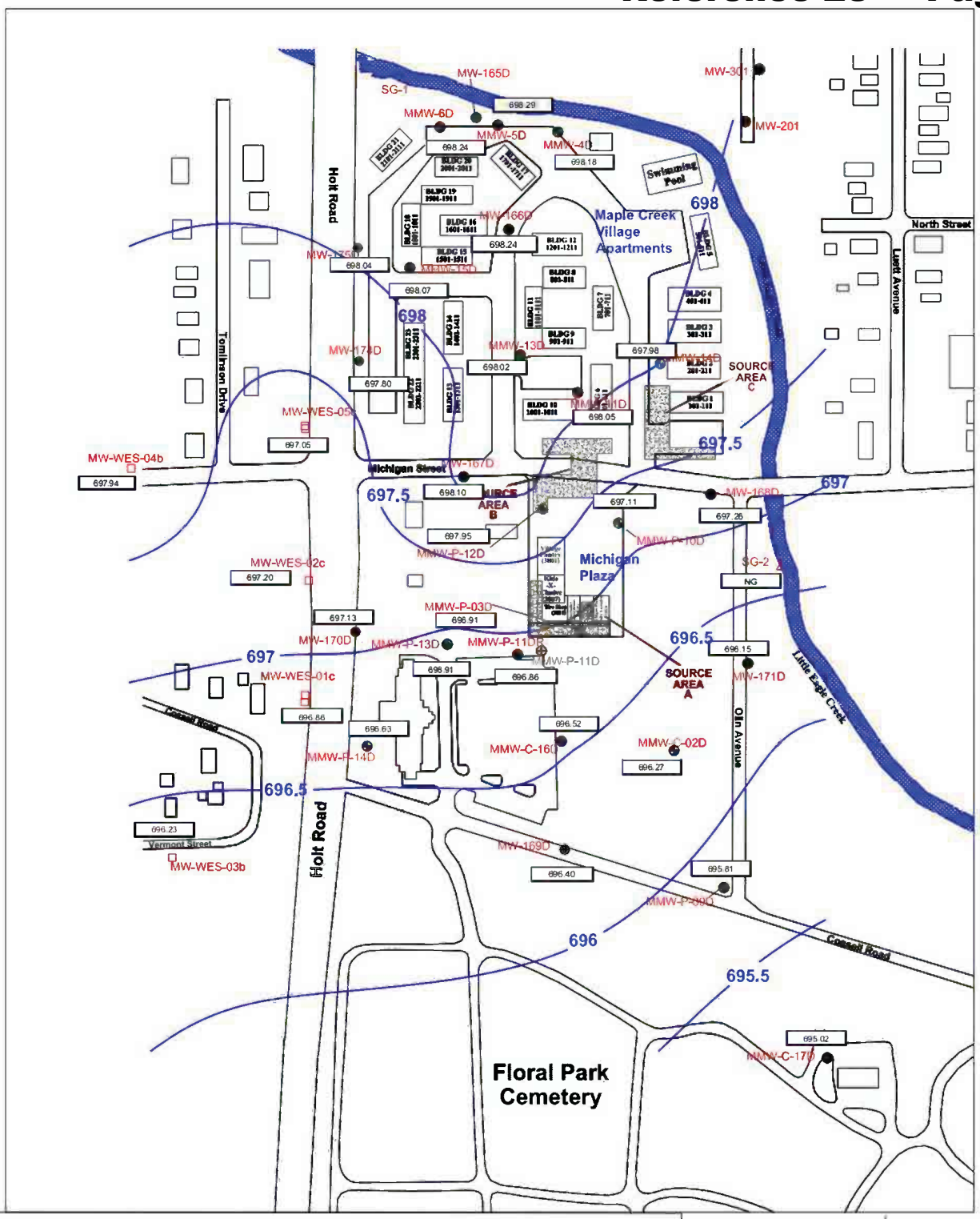
Date Prepared:	4-23-13
Scale:	1"=200'

DEEP POTENTIOMETRIC SURFACE - 1ST QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 3A



LEGEND

MMW-P-06	MUNDELL Monitoring Well	696.68	Static water elevation (ft-MSL)
MW-160	ENVIRON Monitoring Well	695.64	Static water elevation not used to contour potentiometric surface map.
MW-WES-01A	U.S. EPA Monitoring Well		
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet		

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

Mundell Consulting Professionals for the Earth and the Environment

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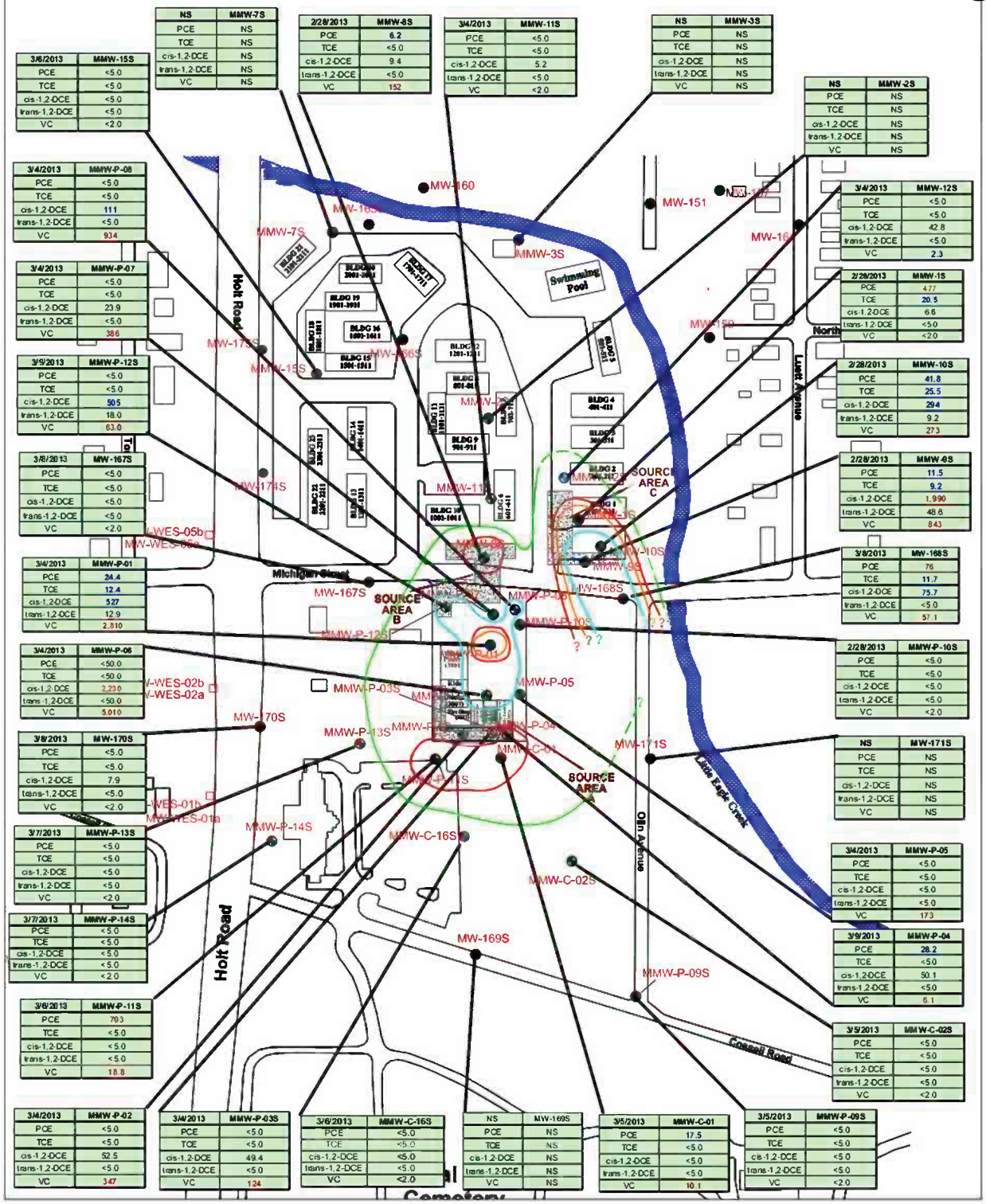
Project Number:	M01046
Drawing File:	1Q13 QMR
Date Prepared:	4-23-13
Scale:	1"=200'

DEEP POTENTIOMETRIC SURFACE - 1ST QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 3B



NS	MMW-7S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

2/28/2013	MMW-6S
PCE	6.2
TCE	<5.0
cis-1,2-DCE	9.4
trans-1,2-DCE	<5.0
VC	152

3/4/2013	MMW-11S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	5.2
trans-1,2-DCE	<5.0
VC	<2.0

NS	MMW-3S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

3/6/2013	MMW-15S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

NS	MMW-2S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

3/4/2013	MMW-P-08
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	111
trans-1,2-DCE	<5.0
VC	934

3/4/2013	MMW-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	42.8
trans-1,2-DCE	<5.0
VC	2.3

3/4/2013	MMW-P-07
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	23.9
trans-1,2-DCE	<5.0
VC	386

2/28/2013	MMW-1S
PCE	477
TCE	20.5
cis-1,2-DCE	6.6
trans-1,2-DCE	<5.0
VC	<2.0

3/9/2013	MMW-P-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	505
trans-1,2-DCE	18.0
VC	63.0

2/28/2013	MMW-10S
PCE	41.8
TCE	25.5
cis-1,2-DCE	294
trans-1,2-DCE	9.2
VC	273

3/8/2013	MW-167S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

2/28/2013	MMW-9S
PCE	11.5
TCE	9.2
cis-1,2-DCE	1,990
trans-1,2-DCE	48.6
VC	843

3/4/2013	MMW-P-01
PCE	24.4
TCE	12.4
cis-1,2-DCE	527
trans-1,2-DCE	12.9
VC	2,810

3/8/2013	MW-168S
PCE	76
TCE	11.7
cis-1,2-DCE	75.7
trans-1,2-DCE	<5.0
VC	57.1

3/4/2013	MMW-P-06
PCE	<50.0
TCE	<50.0
cis-1,2-DCE	2,230
trans-1,2-DCE	<50.0
VC	5,010

2/28/2013	MMW-P-10S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

3/8/2013	MW-170S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	7.9
trans-1,2-DCE	<5.0
VC	<2.0

NS	MW-171S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

3/7/2013	MMW-P-13S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

3/4/2013	MMW-P-05
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	173

3/7/2013	MMW-P-14S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

3/9/2013	MMW-P-04
PCE	28.2
TCE	<5.0
cis-1,2-DCE	50.1
trans-1,2-DCE	<5.0
VC	6.1

3/6/2013	MMW-P-11S
PCE	703
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	18.8

3/5/2013	MMW-C-02S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

3/4/2013	MMW-P-02
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	52.5
trans-1,2-DCE	<5.0
VC	347

3/4/2013	MMW-P-03S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	49.4
trans-1,2-DCE	<5.0
VC	124

3/6/2013	MMW-C-16S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

NS	MW-169S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

3/5/2013	MMW-C-01
PCE	17.5
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	10.1

3/5/2013	MMW-P-09S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

LEGEND

MMW-P-06 — MUNDELL Monitoring Well

MW-160 — ENVIRON Monitoring Well

MW-WES-01A — U.S. EPA Monitoring Well

Inferred Extent of PCE > 5 ug/L

Inferred Extent of TCE > 5 ug/L

Inferred Extent of Cis-1,2 - DCE > 70 ug/L

Inferred Extent of VC > 2 ug/L

NS = Not Sampled

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/l				
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEM RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap Residential	5	5	70	100	2

2/28/2013	MMW-1S
PCE	477
TCE	20.5
cis-1,2-DCE	6.6
trans-1,2-DCE	<5.0
VC	<2.0

All Values Over IDEM RISC Industrial Default Cleanup Levels in Red
All Values Over IDEM RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level in Blue
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ug/l = micrograms per liter
NS = Not Sampled
All analytical results presented in micrograms per liter (ug/l)

N

SCALE 0 200 feet

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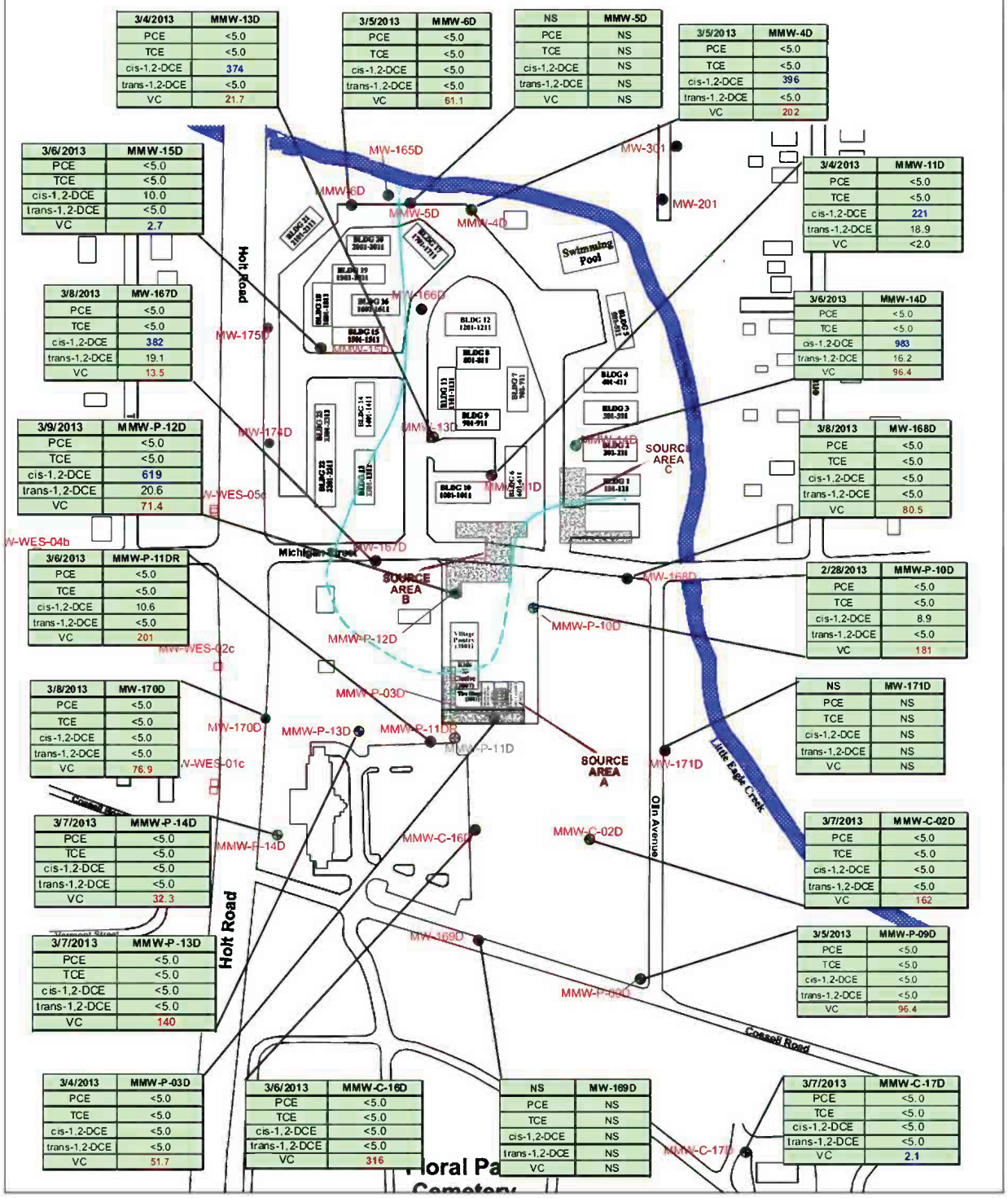
GROUNDWATER ANALYTICAL MAP - SHALLOW
1ST QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
4



3/4/2013	MMW-13D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	374
trans-1,2-DCE	<5.0
VC	21.7

3/5/2013	MMW-6D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	61.1

NS	MMW-5D
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

3/5/2013	MMW-4D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	396
trans-1,2-DCE	<5.0
VC	202

3/6/2013	MMW-15D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	10.0
trans-1,2-DCE	<5.0
VC	2.7

3/4/2013	MMW-11D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	221
trans-1,2-DCE	18.9
VC	<2.0

3/8/2013	MW-167D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	382
trans-1,2-DCE	19.1
VC	13.5

3/6/2013	MMW-14D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	983
trans-1,2-DCE	16.2
VC	96.4

3/9/2013	MMW-P-12D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	619
trans-1,2-DCE	20.6
VC	71.4

3/8/2013	MW-168D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	80.5

3/6/2013	MMW-P-11DR
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	10.6
trans-1,2-DCE	<5.0
VC	201

2/28/2013	MMW-P-10D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	8.9
trans-1,2-DCE	<5.0
VC	181

3/8/2013	MW-170D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	76.9

NS	MW-171D
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

3/7/2013	MMW-P-14D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	32.3

3/7/2013	MMW-C-02D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	162

3/7/2013	MMW-P-13D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	140

3/5/2013	MMW-P-09D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	96.4

3/4/2013	MMW-P-03D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	51.7

3/6/2013	MMW-C-16D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	316

NS	MW-169D
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

3/7/2013	MMW-C-17D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	2.1

LEGEND

MMW-P-09D — MUNDELL Monitoring Well

MW-169D — ENVIRON Monitoring Well

MW-WES-05C — U.S. EPA Monitoring Well

Inferred Extent of PCE > 5 ug/L

Inferred Extent of TCE > 5 ug/L

Inferred Extent of Cis-1,2 - DCE > 70 ug/L

Inferred Extent of VC > 2 ug/L

NS = Not Sampled

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/L				
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEM RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap Residential	5	5	70	100	2

4/25/2012	MMW-1S
PCE	270
TCE	11.2
cis-1,2-DCE	34.2
trans-1,2-DCE	<5.0
VC	39

All Values Over IDEM RISC Industrial Default Cleanup Levels In Red
All Values Over IDEM RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level In Blue
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ug/L = micrograms per liter
NS = Not Sampled
All analytical results presented in micrograms per liter (ug/L)

N

SCALE 0 200 feet

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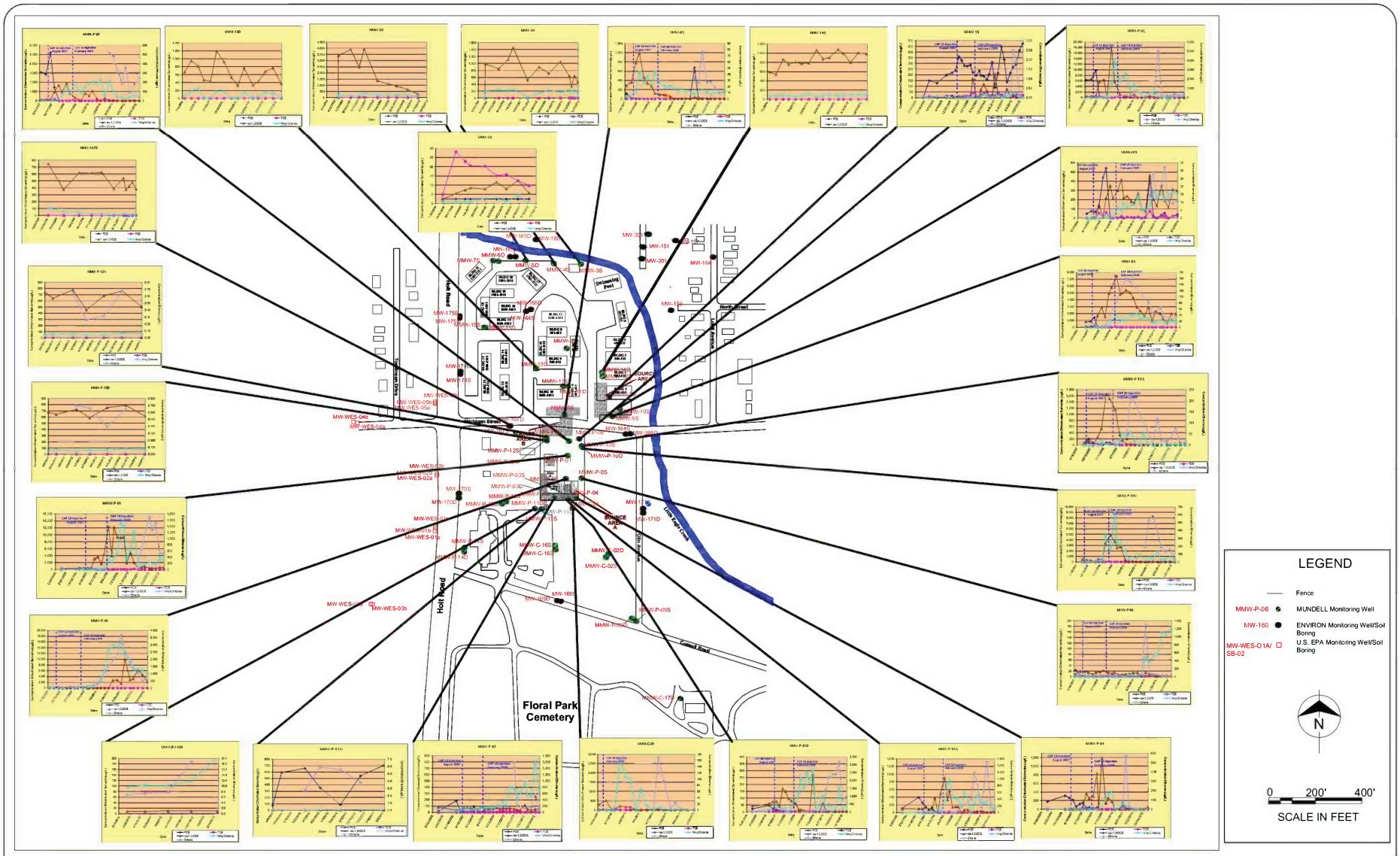
Drawing File:	1Q13 QMR
Date Prepared:	4-11-13
Scale:	1"=200'

GROUNDWATER ANALYTICAL MAP - DEEP
1ST QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
5



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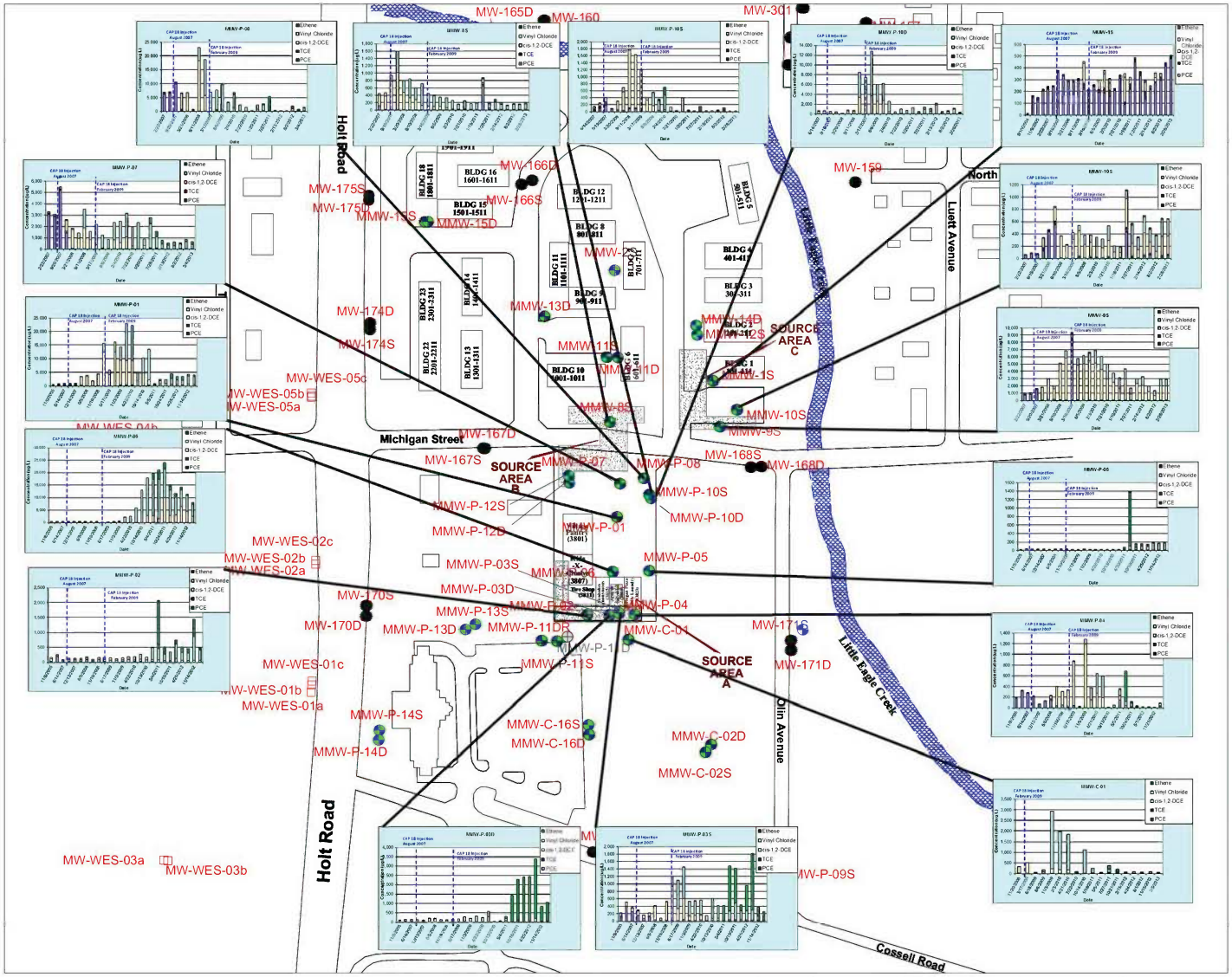
REV.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: M01046 FILE NO.:GW Quarterly.DWG
DRAWING: 1"=200' PLOT SIZE: ANSI D

DRAFTED BY: MTB DATE: 4/15/13
CHECKED BY: SVE DATE: 4/15/13
APPROVED BY: MEB DATE: 4/23/13

Indicator Compound Trends in Groundwater
Michigan Plaza
3801 - 3823 Michigan Street
Indianapolis, Indiana

FIGURE 6



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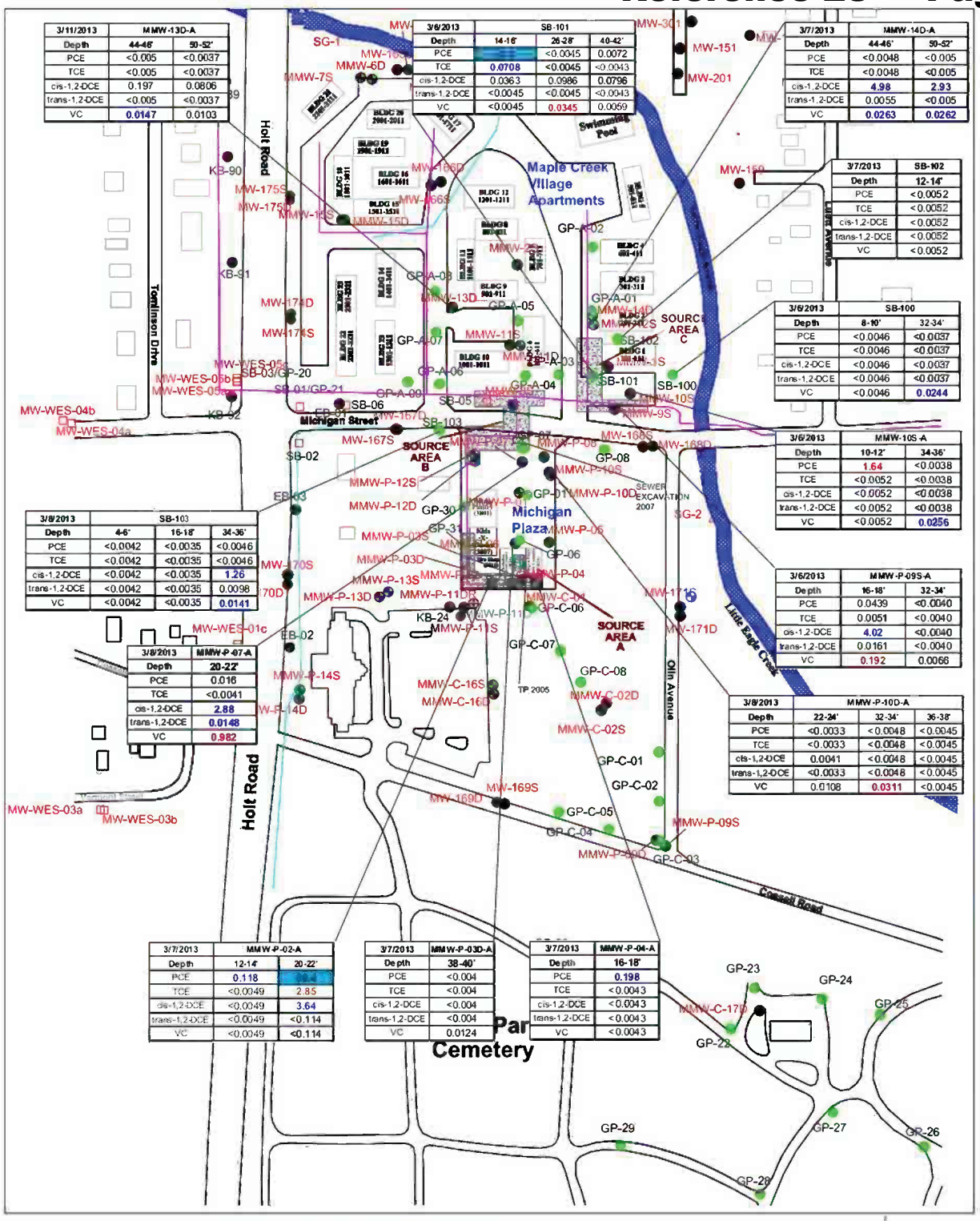
REV.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: M01046 FILE NO.:GW Quarterly.DWG
DRAWING: 1"=100' PLOT SIZE: ANSI D

DRAFTED BY: MEB DATE: 4/15/13
CHECKED BY: MEB DATE: 4/15/13
APPROVED BY: MEB DATE: 4/23/13

Parent and Daughter Compound Trends in Groundwater
Michigan Plaza
3801 - 3823 Michigan Street
Indianapolis, Indiana

FIGURE 7



3/11/2013	MMW-13D-A	
Depth	44-46'	50-52'
PCE	<0.005	<0.0037
TCE	<0.005	<0.0037
cis-1,2-DCE	0.197	0.0806
trans-1,2-DCE	<0.005	<0.0037
VC	0.0147	0.0103

3/6/2013	SB-101		
Depth	14-16'	26-28'	40-42'
PCE		<0.0045	0.0072
TCE	0.0708	<0.0045	<0.0043
cis-1,2-DCE	0.0363	0.0986	0.0796
trans-1,2-DCE	<0.0045	<0.0045	<0.0043
VC	<0.0045	0.0345	0.0059

3/7/2013	MMW-14D-A	
Depth	44-46'	50-52'
PCE	<0.0048	<0.005
TCE	<0.0048	<0.005
cis-1,2-DCE	4.98	2.93
trans-1,2-DCE	0.0055	<0.005
VC	0.0263	0.0262

3/7/2013	SB-102
Depth	12-14'
PCE	<0.0052
TCE	<0.0052
cis-1,2-DCE	<0.0052
trans-1,2-DCE	<0.0052
VC	<0.0052

3/6/2013	SB-100	
Depth	8-10'	32-34'
PCE	<0.0046	<0.0037
TCE	<0.0046	<0.0037
cis-1,2-DCE	<0.0046	<0.0037
trans-1,2-DCE	<0.0046	<0.0037
VC	<0.0046	0.0244

3/6/2013	MMW-10S-A	
Depth	10-12'	34-36'
PCE	1.64	<0.0038
TCE	<0.0052	<0.0038
cis-1,2-DCE	<0.0052	<0.0038
trans-1,2-DCE	<0.0052	<0.0038
VC	<0.0052	0.0256

3/8/2013	SB-103		
Depth	4-6'	16-18'	34-36'
PCE	<0.0042	<0.0035	<0.0046
TCE	<0.0042	<0.0035	<0.0046
cis-1,2-DCE	<0.0042	<0.0035	1.26
trans-1,2-DCE	<0.0042	<0.0035	0.0098
VC	<0.0042	<0.0035	0.0141

3/6/2013	MMW-P-09S-A	
Depth	16-18'	32-34'
PCE	0.0439	<0.0040
TCE	0.0051	<0.0040
cis-1,2-DCE	4.02	<0.0040
trans-1,2-DCE	0.0161	<0.0040
VC	0.192	0.0066

3/8/2013	MMW-P-07-A
Depth	20-22'
PCE	0.016
TCE	<0.0041
cis-1,2-DCE	2.88
trans-1,2-DCE	0.0148
VC	0.982

3/8/2013	MMW-P-10D-A		
Depth	22-24'	32-34'	36-38'
PCE	<0.0033	<0.0048	<0.0045
TCE	<0.0033	<0.0048	<0.0045
cis-1,2-DCE	0.0041	<0.0048	<0.0045
trans-1,2-DCE	<0.0033	<0.0048	<0.0045
VC	0.0108	0.0311	<0.0045

3/7/2013	MMW-P-02-A	
Depth	12-14'	20-22'
PCE	0.118	
TCE	<0.0049	2.85
cis-1,2-DCE	<0.0049	3.64
trans-1,2-DCE	<0.0049	<0.114
VC	<0.0049	<0.114

3/7/2013	MMW-P-03D-A
Depth	38-40'
PCE	<0.004
TCE	<0.004
cis-1,2-DCE	<0.004
trans-1,2-DCE	<0.004
VC	0.0124

3/7/2013	MMW-P-04-A
Depth	16-18'
PCE	0.198
TCE	<0.0043
cis-1,2-DCE	<0.0043
trans-1,2-DCE	<0.0043
VC	<0.0043

LEGEND

- GP-29 — Soil Boring
- Fence
- Sanitary Sewer
- Storm Sewer
- MMW-P-06 — MUNDELL Monitoring Well
- MW-160/ KB-90 — ENVIRON Monitoring Well/Soil Boring
- MW-WES-O1A/ SB-02 — U.S. EPA Monitoring Well/Soil Boring
- SG-1 — Stream Gauge Location
- MGW-O1 — MUNDELL Soil Gas Well

Soil		Soil Direct	IDCL	RDCL
Tetrachloroethene	mg/kg	16	0.64	0.058
Trichloroethene	mg/kg	24	0.35	0.057
cis-1,2-Dichloroethene	mg/kg	140	5.8	0.4
trans-1,2-Dichloroethene	mg/kg	230	14	0.68
Vinyl Chloride	mg/kg	6.4	0.027	0.013

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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Drawing File: 1Q13 QMR
Date Prepared: 4-24-2013
Scale: 1"=200'

SOIL ANALYTICAL MAP - MARCH 2013 SOIL BORINGS

Michigan Plaza
3801 - 3823 West Michigan Street
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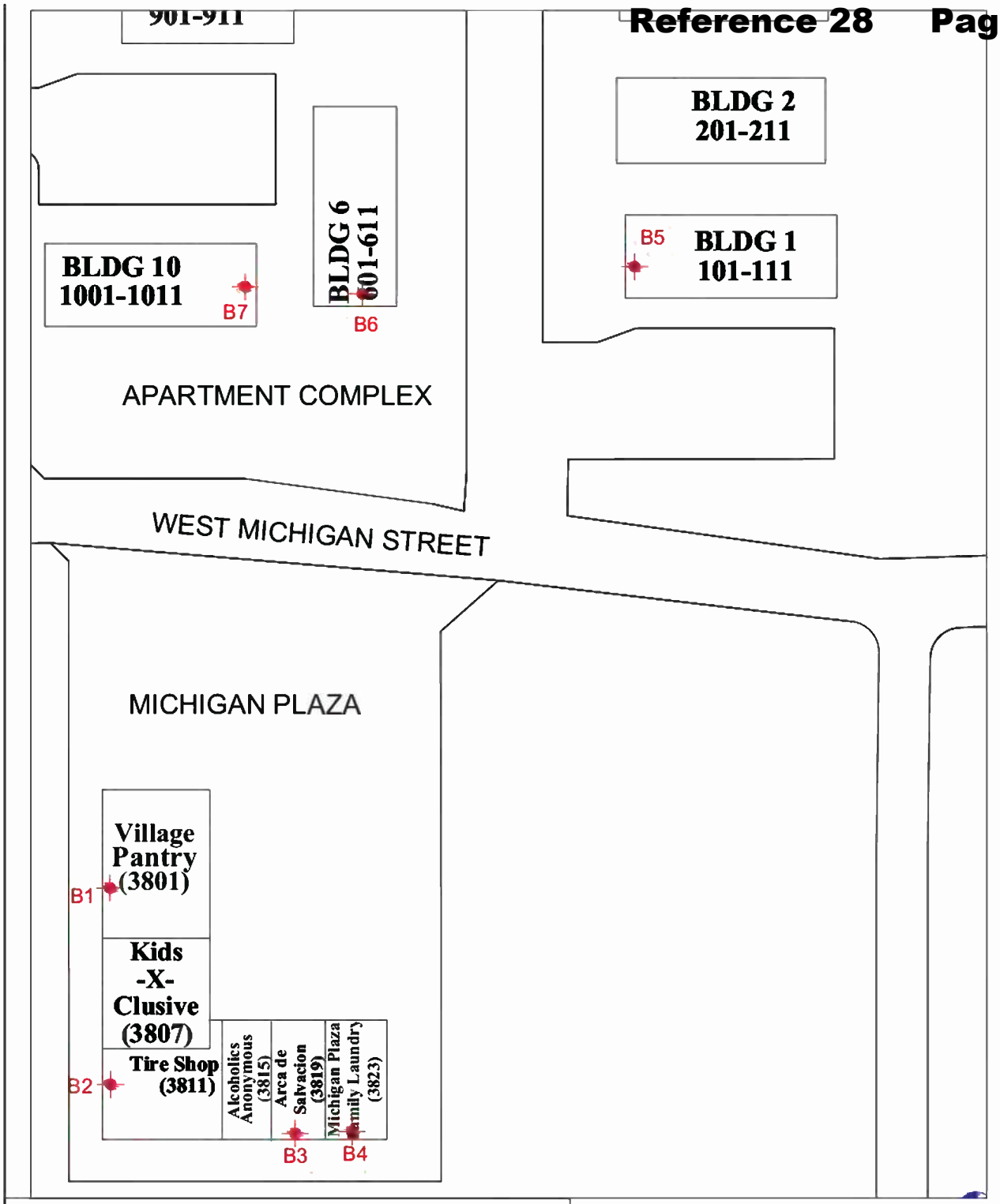
FIGURE 8



LEGEND

B1 System Location

N

SCALE 0 50 feet

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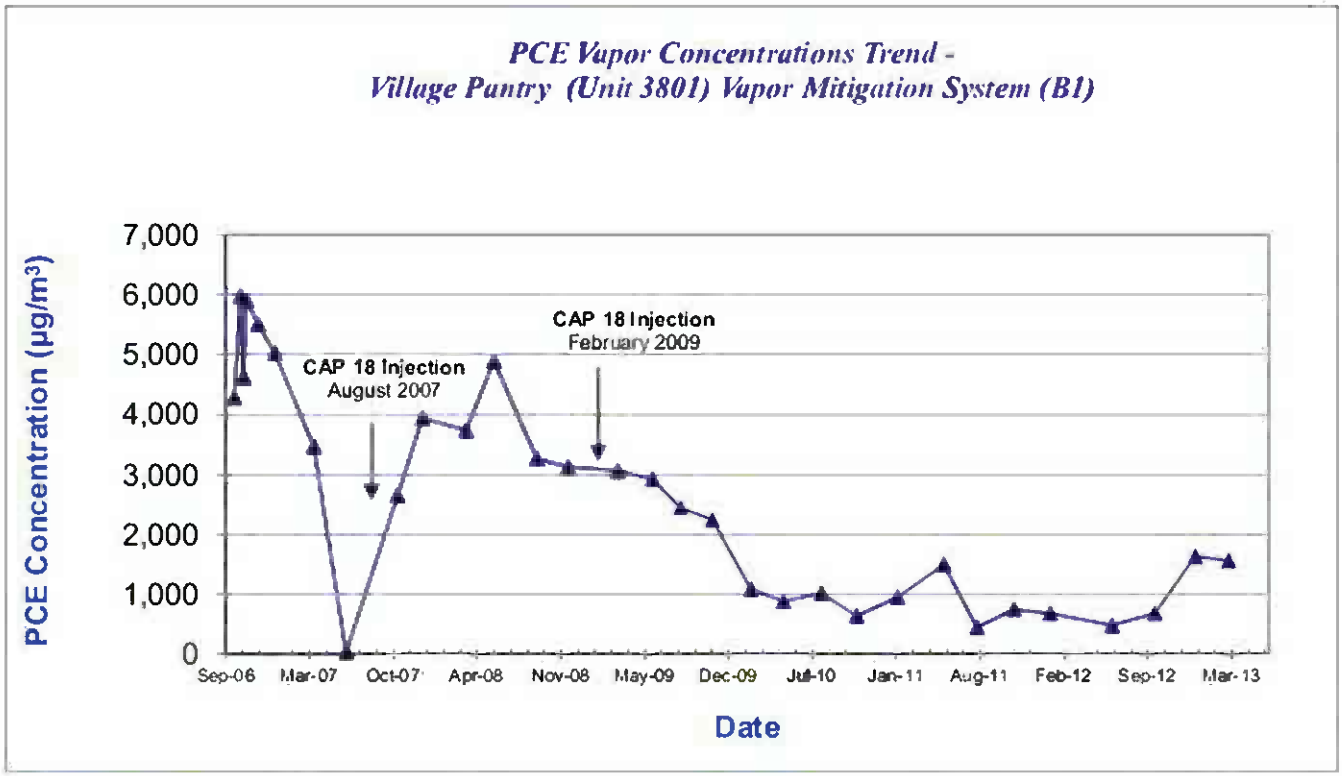
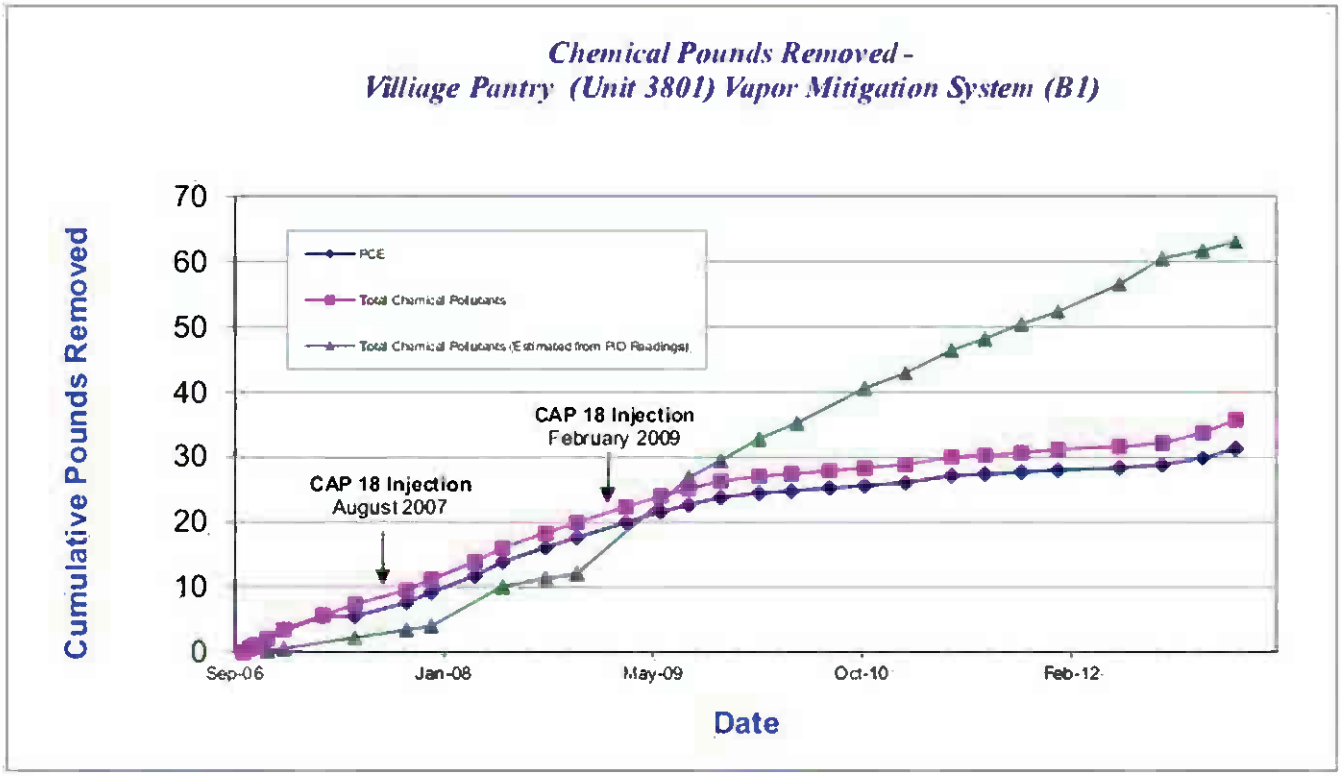
Drawing File:	1Q13 QMR
Date Prepared:	4/23/13
Scale:	1"=50'

SYSTEM LOCATION MAP

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 9





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110 South Downey Avenue
Indianapolis, Indiana 46219
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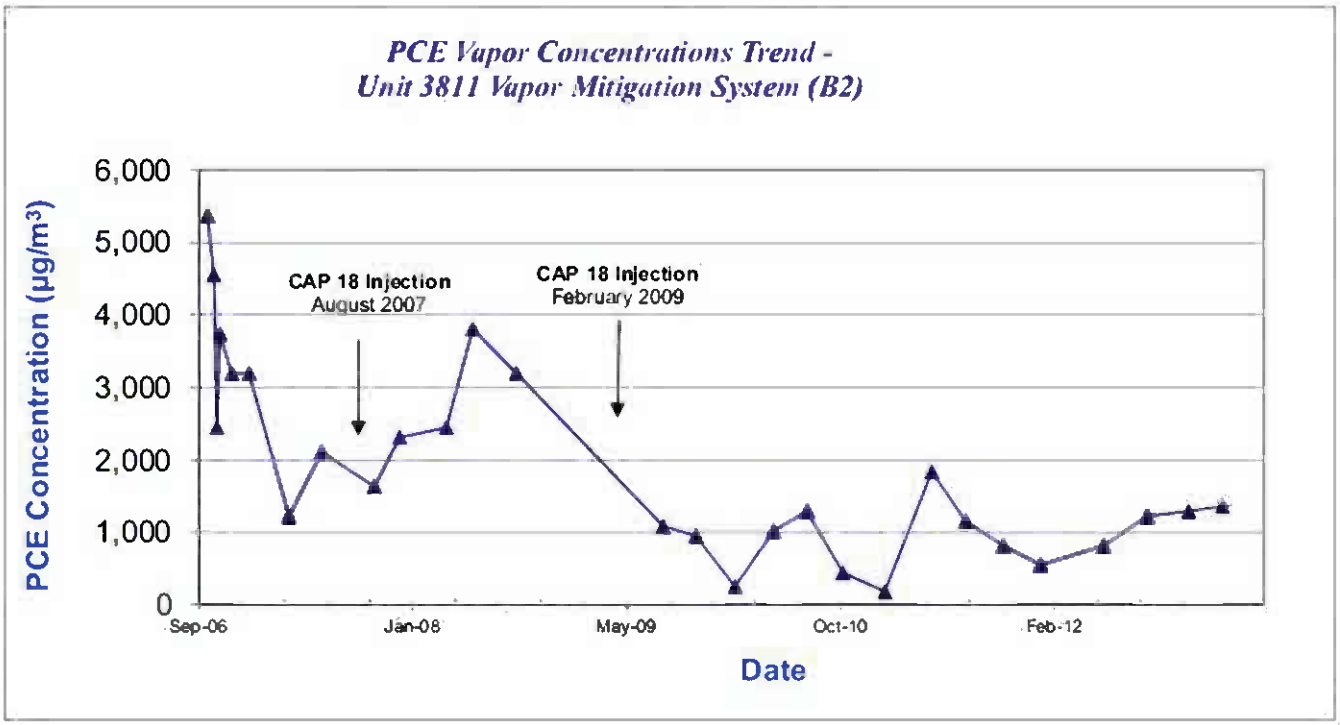
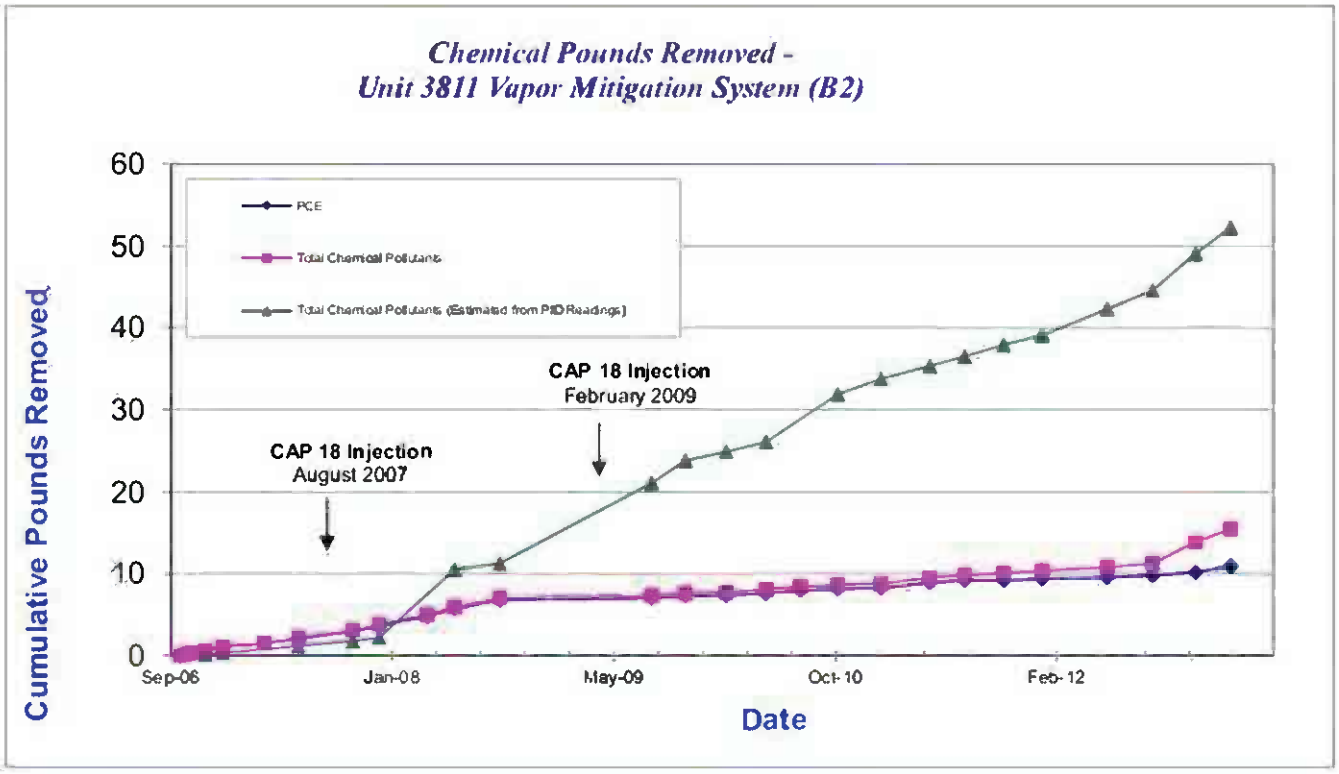
Project Number:	M010-46
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-1 (Villiage Pantry - Unit 3801)
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
10





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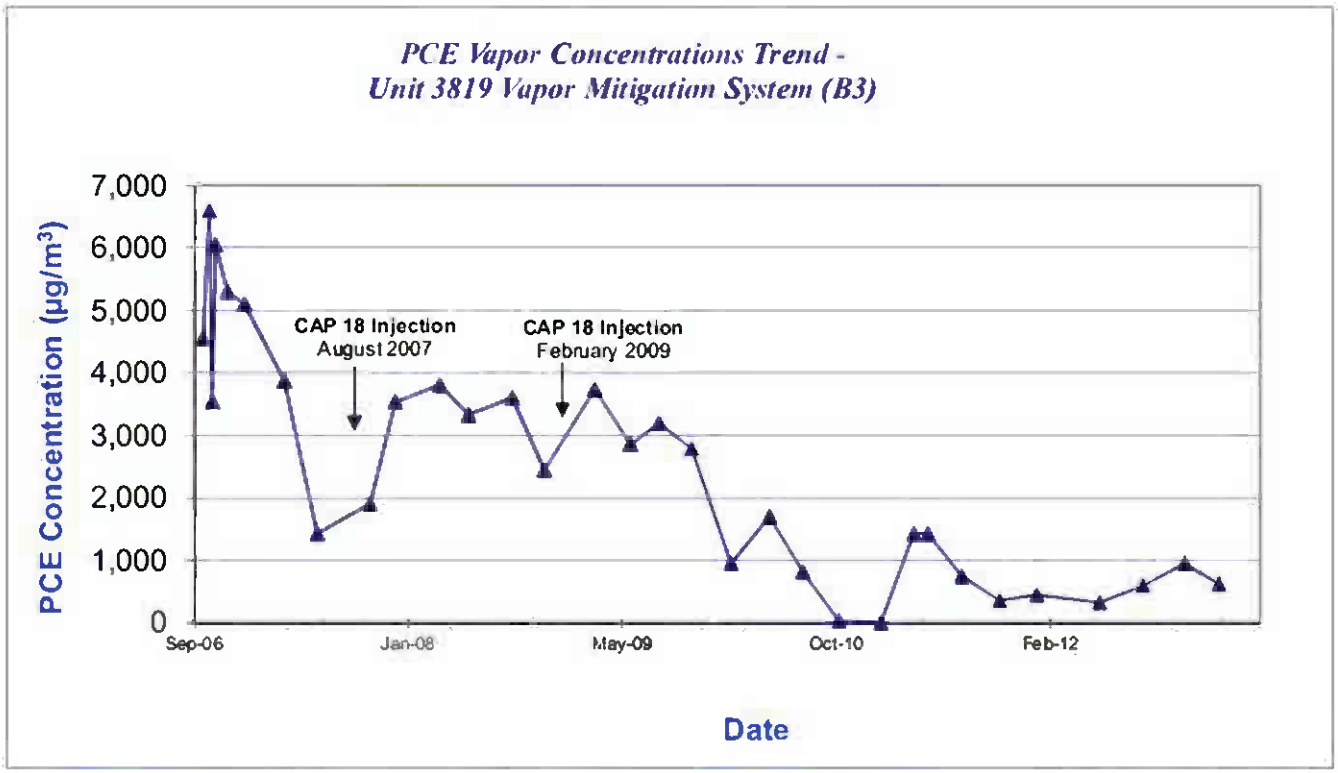
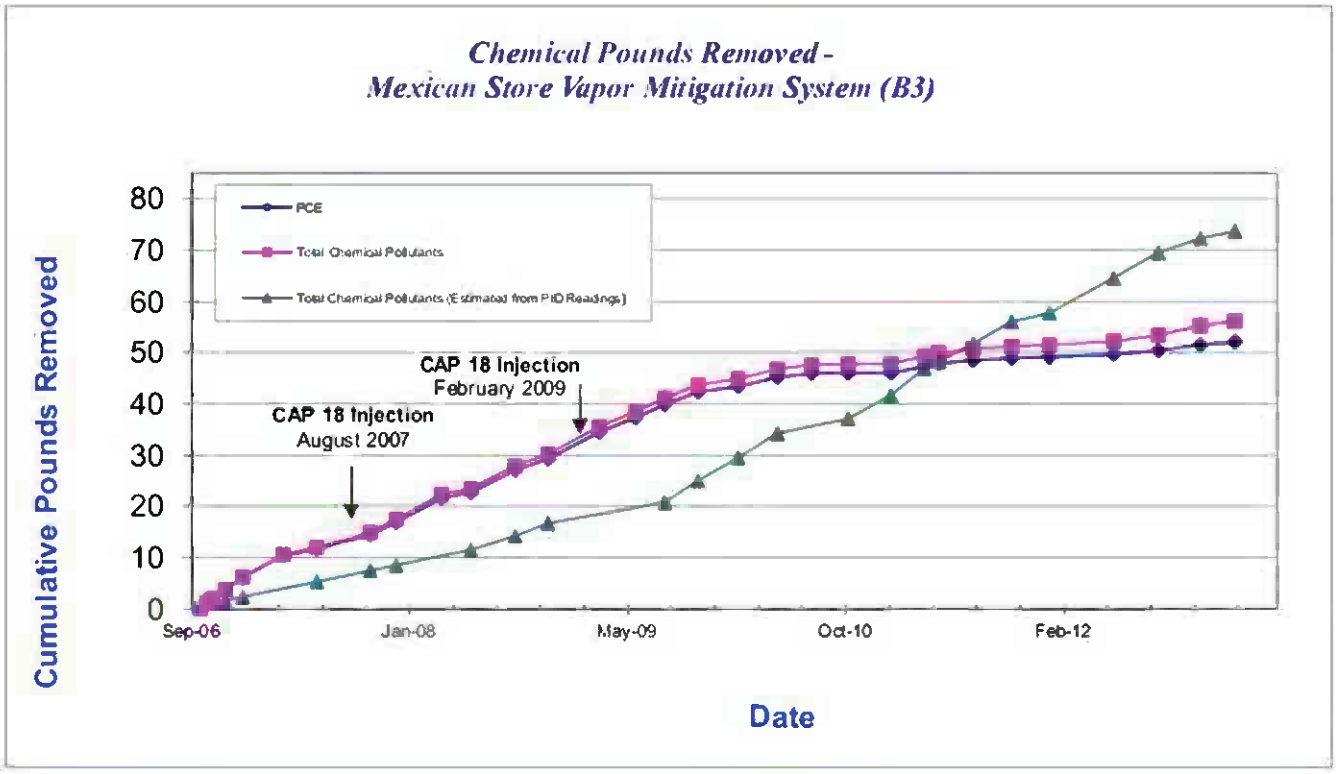
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-2 (Unit 3811)
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
11





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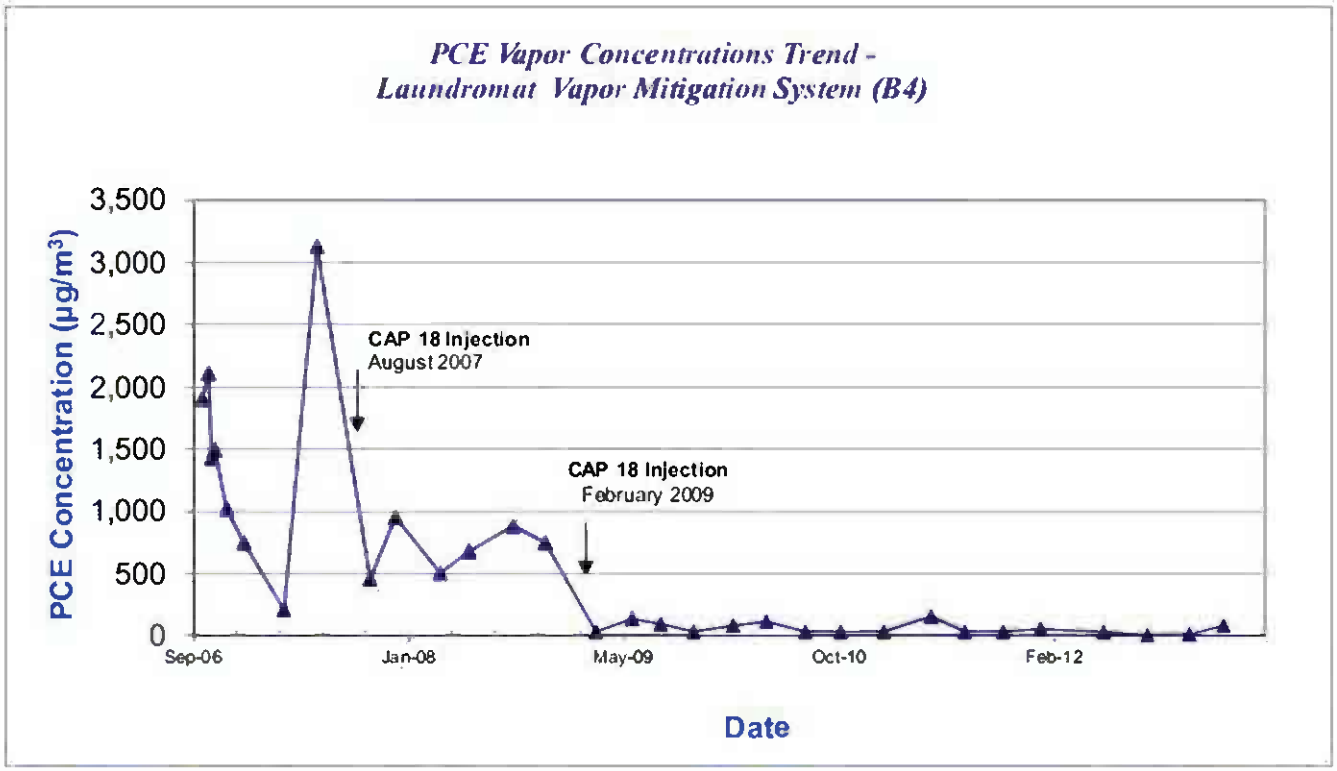
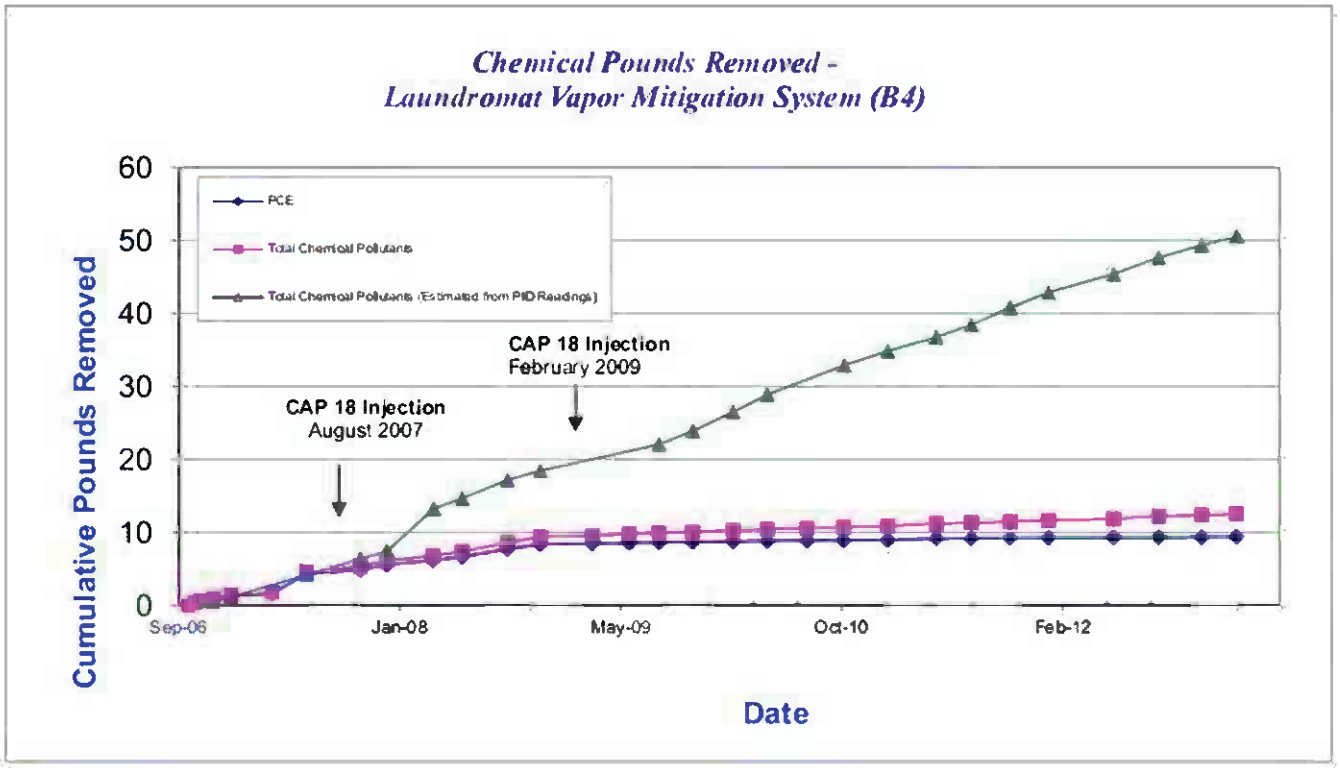
Project Number:	M010-46
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-3 (Unit 3819)
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
12





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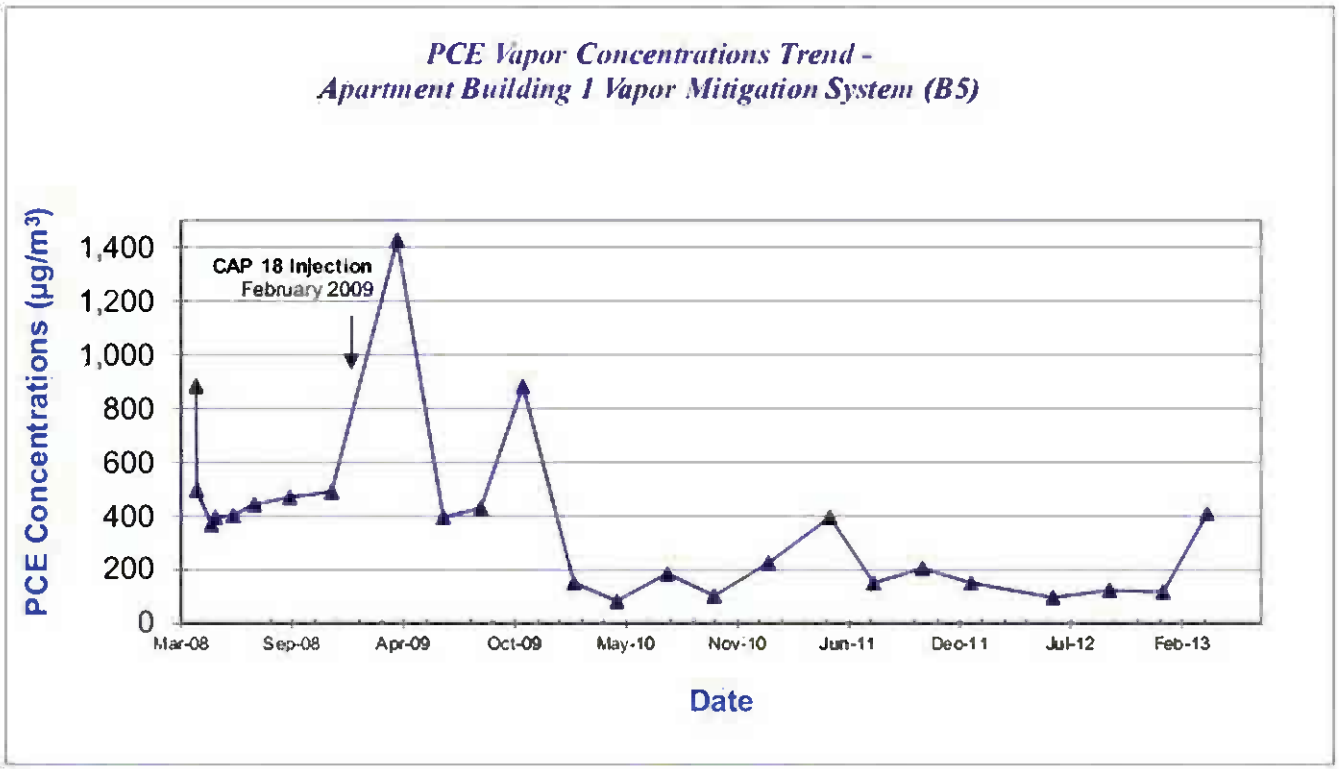
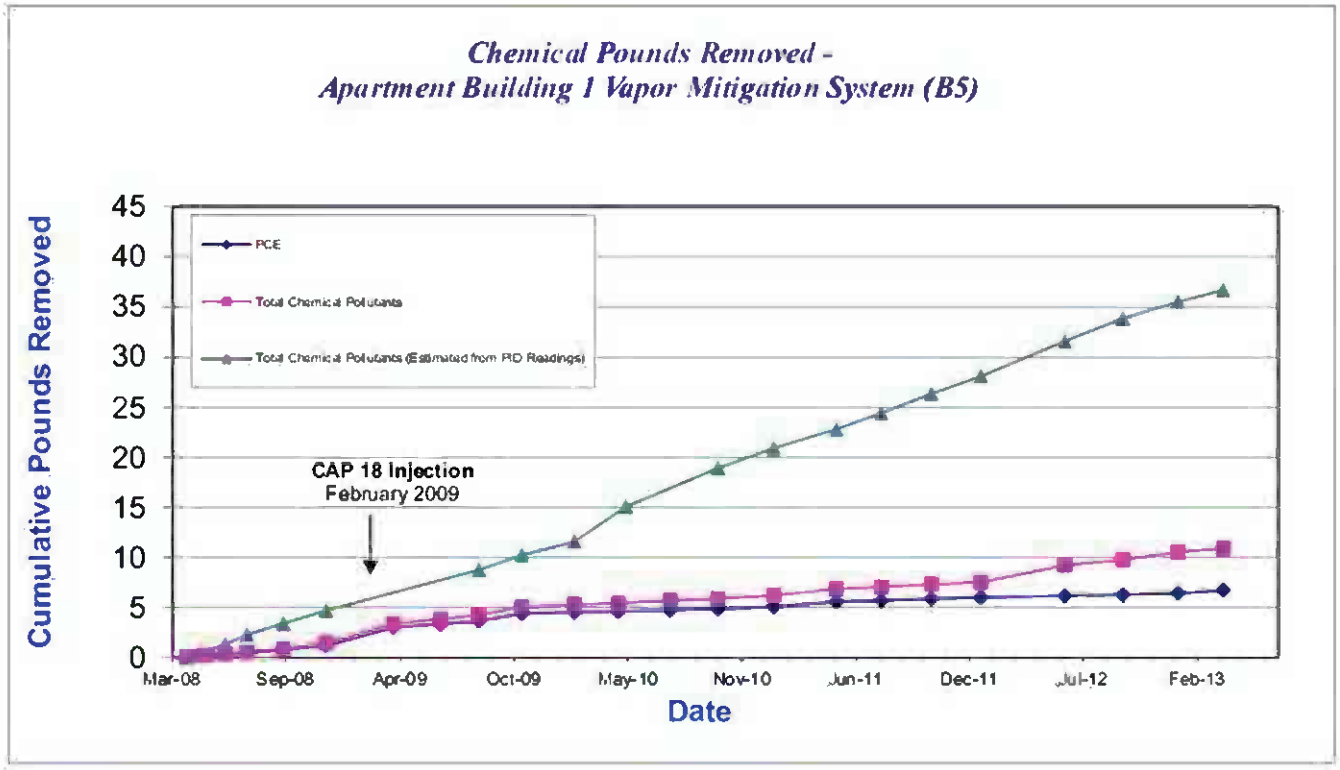
Project Number:	M010-46
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-4 (Laundromat - Unit 3823)
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
13





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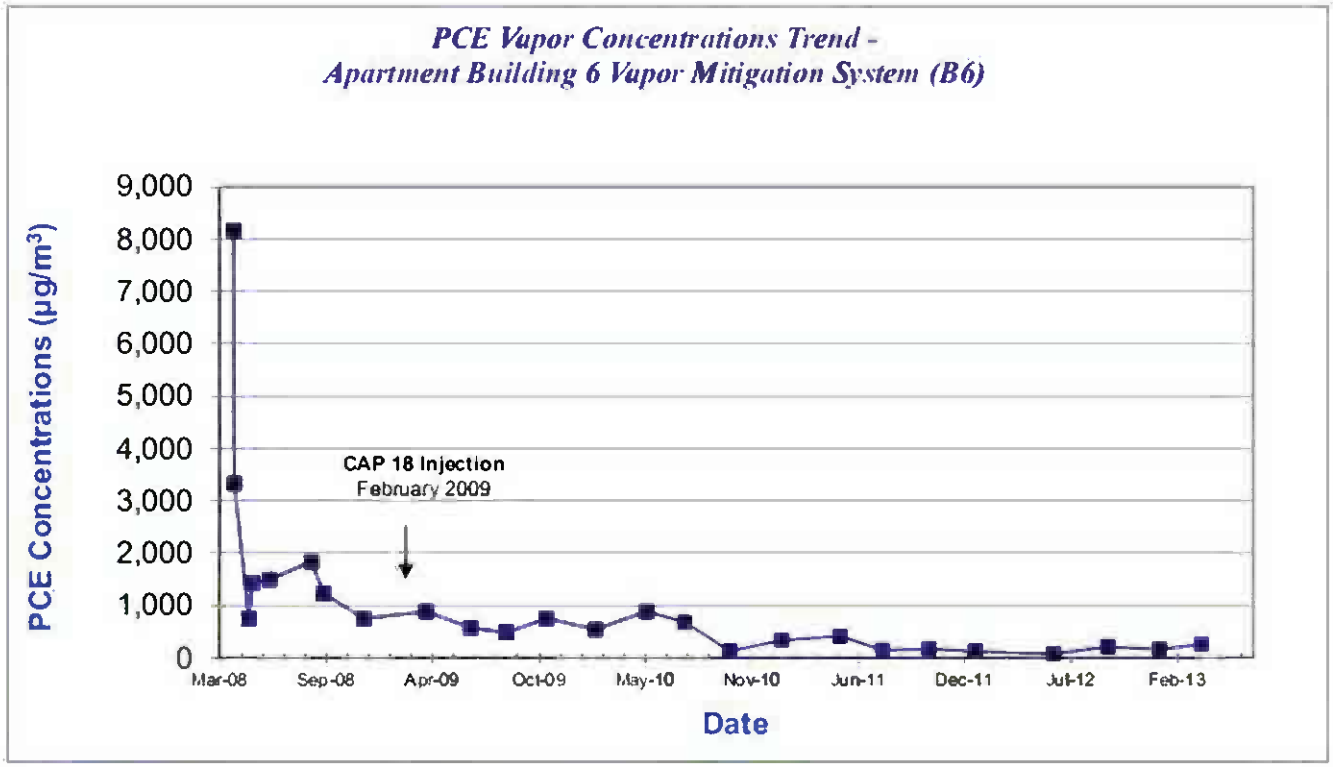
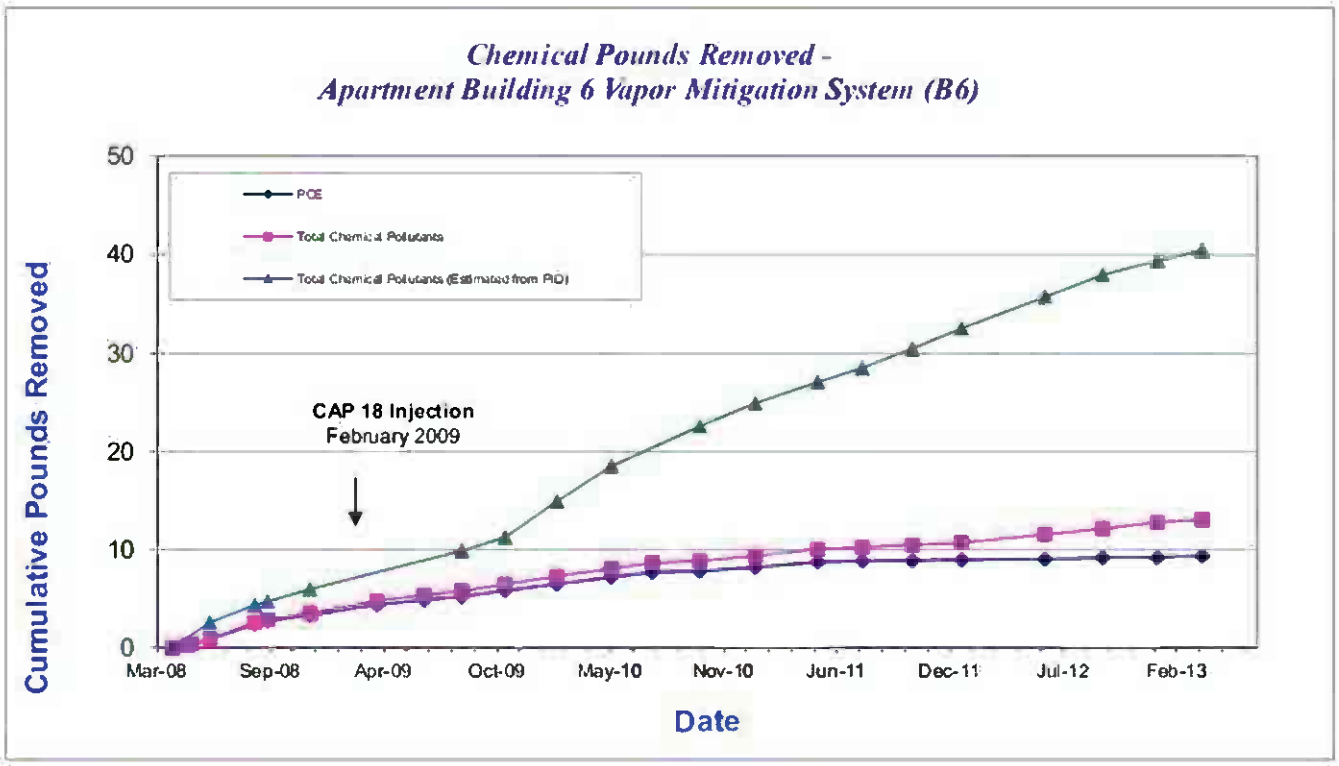
Project Number:	M010-46
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-5 (Apartments, Bldg. 1)
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
14





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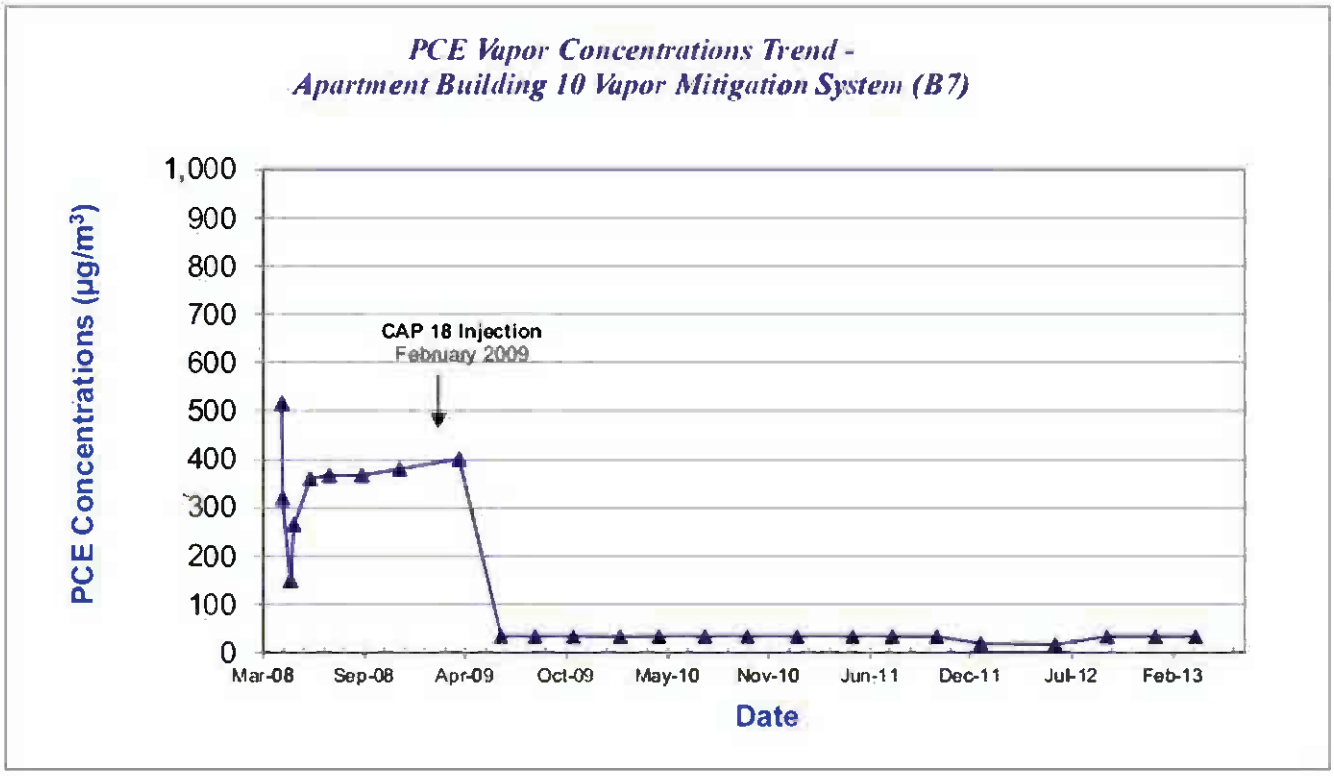
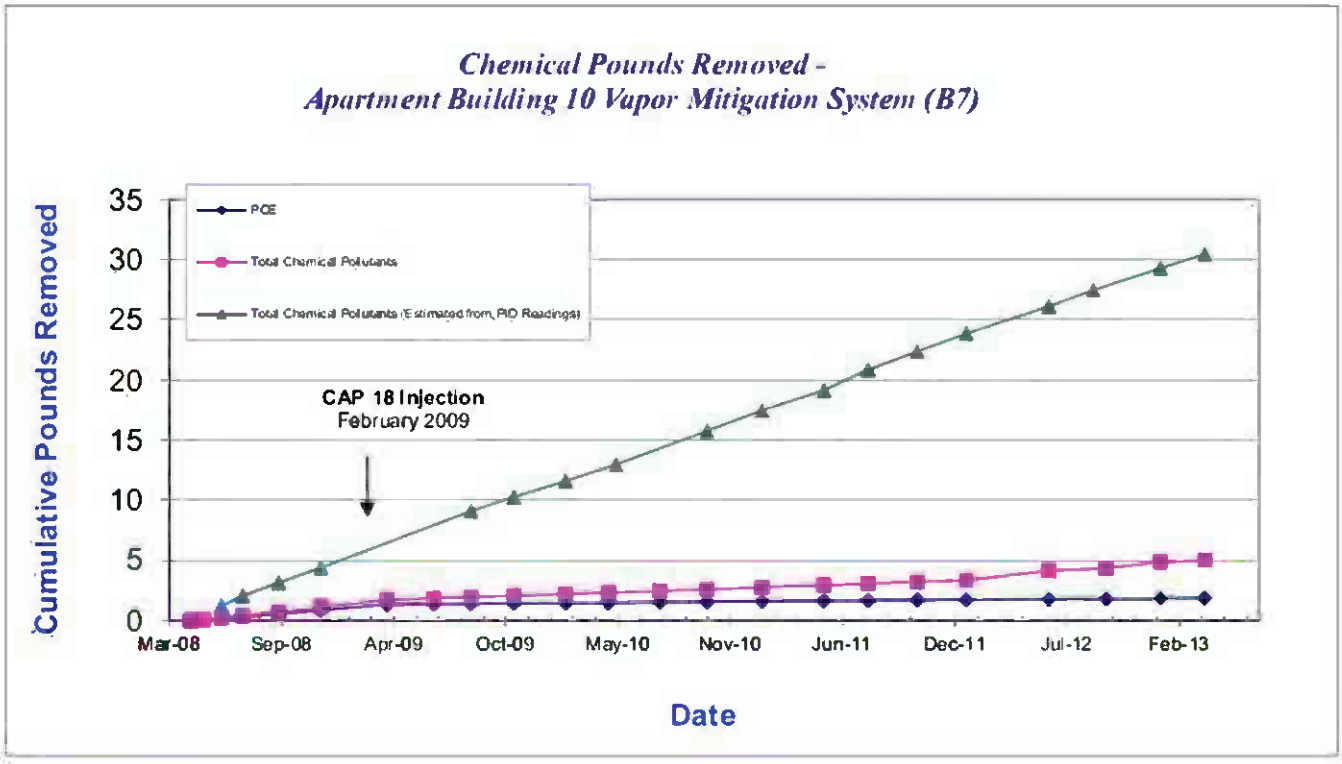
Project Number:	M010-46
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-6 (Apartments, Bldg 6)
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
15





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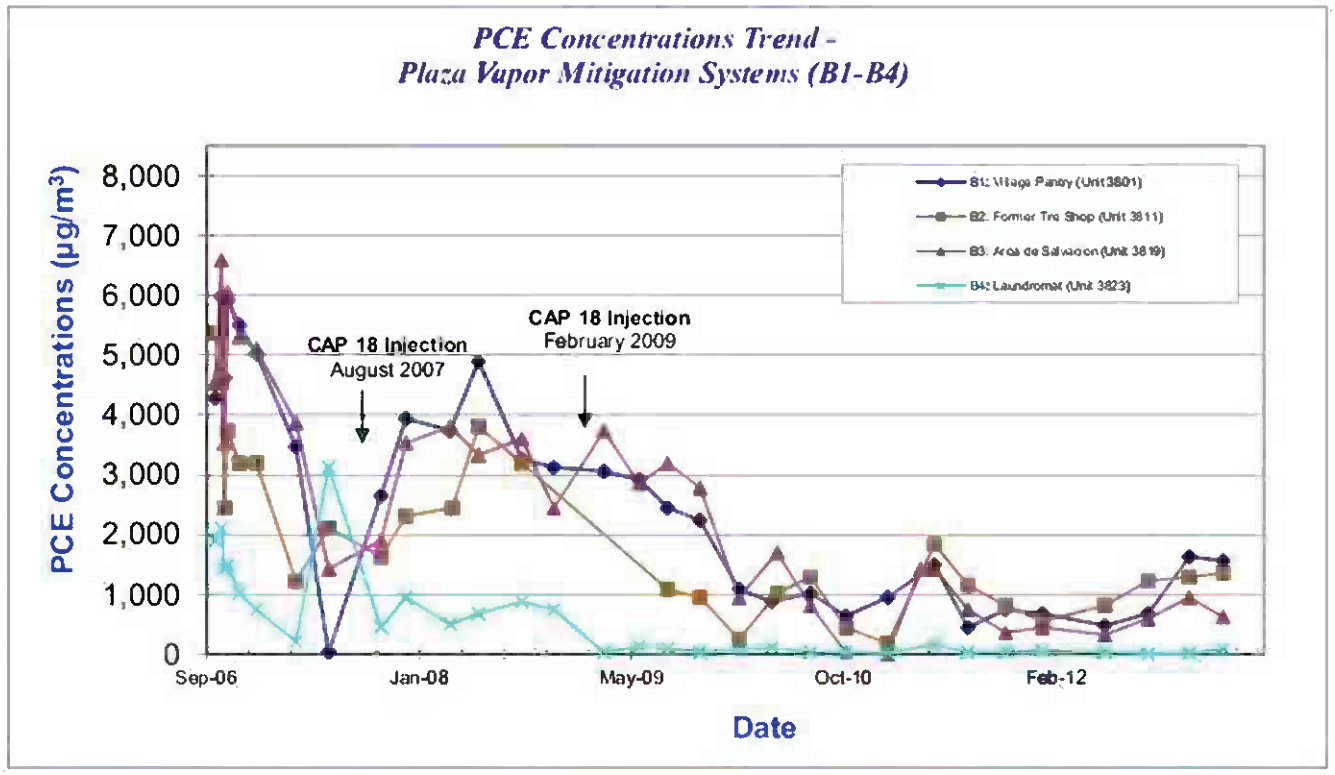
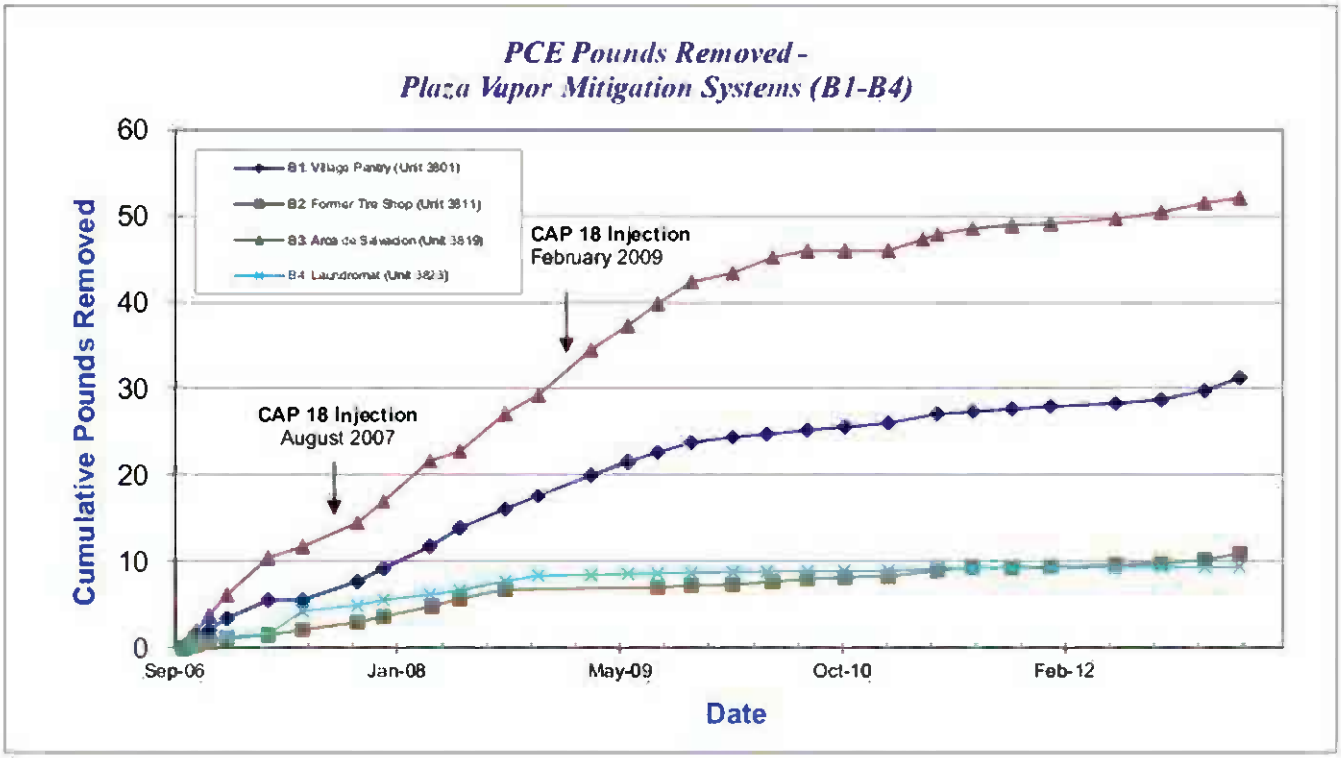
Project Number:	M010-46
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-7 (Apartments, Bldg.10)
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
16





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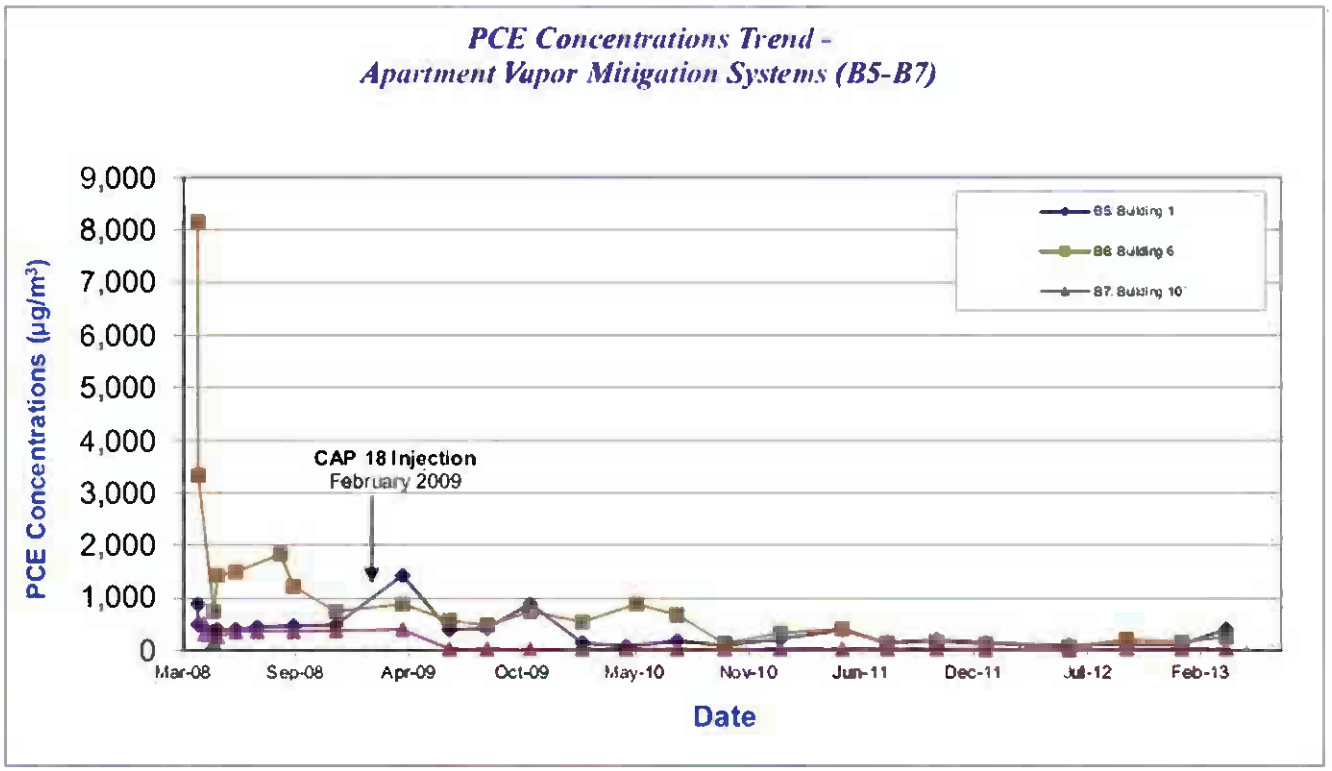
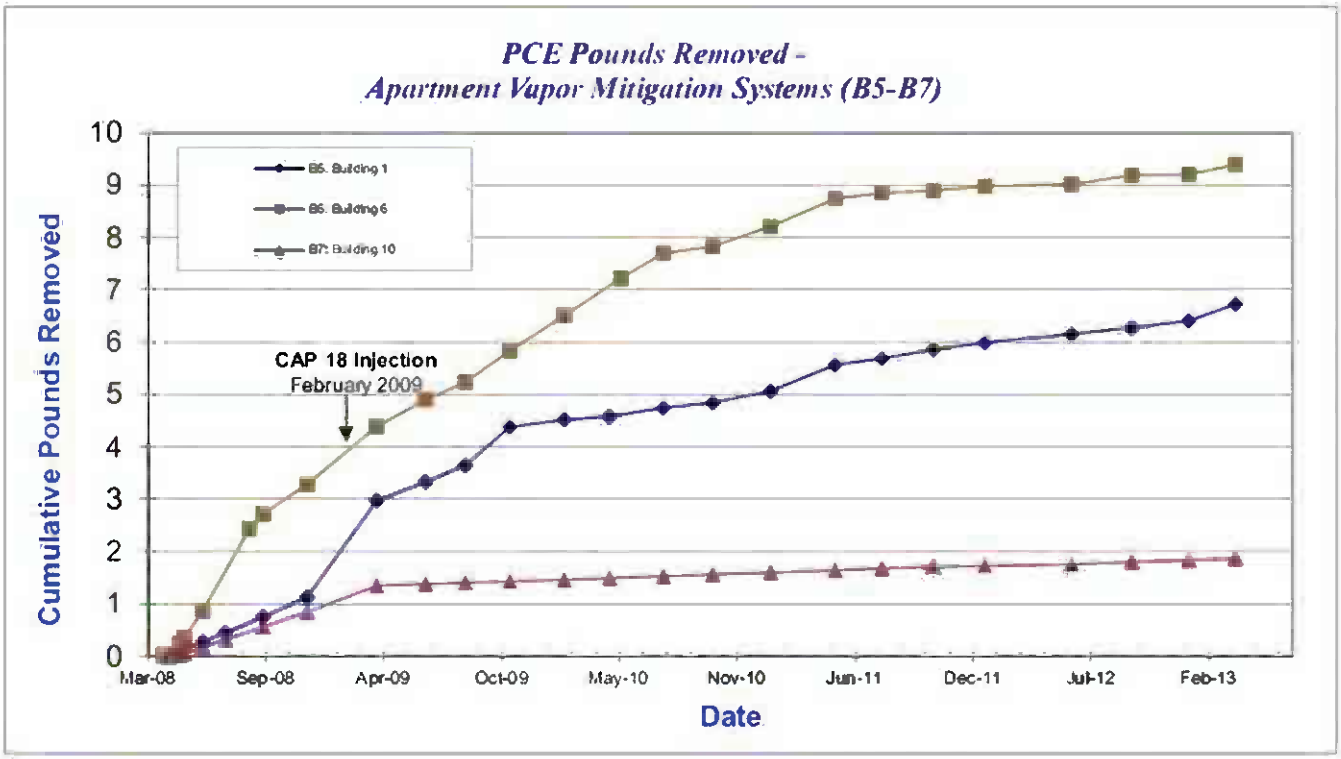
Project Number:	M010-46
File:	MI Plaza charts
Date Prepared:	4/9/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation Systems B1-B4
First Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
17





Mundell Consulting Professionals for the Earth and the Environment	Mundell & Associates, Inc. 110 South Downey Avenue Indianapolis, Indiana 46219 www.MundellAssociates.com	Project Number: M010-46 File: MI Plaza charts Date Prepared: 4/9/2013 Scale: no scale	PCE Concentration Trends and Cumulative Pounds Removed Vapor Mitigation Systems B5-B7 (Apartments) First Quarter 2013 Michigan Plaza 3801-3823 West Michigan Street Indianapolis, IN

FIGURE

18

APPENDIX A

Laboratory Certificates of Analysis

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

April 5, 2013

Mark Breting
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MICHIGAN PLAZA / M01046**
Microseeps Workorder: 8448

Dear Mark Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 27, 2013. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 04/05/2013 C.t. 4/8/13
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 15

CERTIFICATE OF ANALYSIS

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Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 8448 MICHIGAN PLAZA / M01048

Lab ID	Sample ID	Matrix	Date Collected	Date Received
84480001	B-1	Vapor	3/20/2013 11:48	3/27/2013 11:00
84480002	B-2	Vapor	3/20/2013 11:39	3/27/2013 11:00
84480003	B-3	Vapor	3/20/2013 11:30	3/27/2013 11:00
84480004	B-4	Vapor	3/20/2013 11:21	3/27/2013 11:00
84480005	B-5	Vapor	3/20/2013 10:54	3/27/2013 11:00
84480006	B-6	Vapor	3/20/2013 10:59	3/27/2013 11:00
84480007	B-7	Vapor	3/20/2013 11:07	3/27/2013 11:00

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ANALYTICAL RESULTS

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID: 84480001 Date Received: 3/27/2013 11:00 Matrix: Vapor
Sample ID: B-1 Date Collected: 3/20/2013 11:48

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	0.20J	ppmv	1.0	0.095	1			4/1/2013 21:26	SL	
1,1-Dichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/1/2013 21:26	SL	
Methylene Chloride	2.0 U	ppmv	2.0	0.19	1			4/1/2013 21:26	SL	
trans-1,2-Dichloroethene	0.010 U	ppmv	0.010	0.0080	1			4/1/2013 21:26	SL	
1,1-Dichloroethane	0.020 U	ppmv	0.020	0.0040	1			4/1/2013 21:26	SL	
cis-1,2-Dichloroethene	0.020 U	ppmv	0.020	0.0070	1			4/1/2013 21:26	SL	
Chloroform	0.0042J	ppmv	0.0050	0.0010	1			4/1/2013 21:26	SL	
1,1,1-Trichloroethane	0.0050 U	ppmv	0.0050	0.0010	1			4/1/2013 21:26	SL	
Carbon Tetrachloride	0.0050 U	ppmv	0.0050	0.0010	1			4/1/2013 21:26	SL	
Trichloroethene	0.0020J	ppmv	0.010	0.0010	1			4/1/2013 21:26	SL	
Tetrachloroethene	0.23	ppmv	0.010	0.0010	1			4/1/2013 21:26	SL	

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ANALYTICAL RESULTS

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID: 84480002 Date Received: 3/27/2013 11:00 Matrix: Vapor
Sample ID: B-2 Date Collected: 3/20/2013 11:39

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	0.21J	ppmv	1.0	0.095	1			4/1/2013 22:33	SL	
1,1-Dichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/1/2013 22:33	SL	
Methylene Chloride	2.0 U	ppmv	2.0	0.19	1			4/1/2013 22:33	SL	
trans-1,2-Dichloroethene	0.010 U	ppmv	0.010	0.0080	1			4/1/2013 22:33	SL	
1,1-Dichloroethane	0.020 U	ppmv	0.020	0.0040	1			4/1/2013 22:33	SL	
cis-1,2-Dichloroethene	0.020 U	ppmv	0.020	0.0070	1			4/1/2013 22:33	SL	
Chloroform	0.0038J	ppmv	0.0050	0.0010	1			4/1/2013 22:33	SL	
1,1,1-Trichloroethane	0.0050 U	ppmv	0.0050	0.0010	1			4/1/2013 22:33	SL	
Carbon Tetrachloride	0.0050 U	ppmv	0.0050	0.0010	1			4/1/2013 22:33	SL	
Trichloroethene	0.0017J	ppmv	0.010	0.0010	1			4/1/2013 22:33	SL	
Tetrachloroethene	0.20	ppmv	0.010	0.0010	1			4/1/2013 22:33	SL	

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ANALYTICAL RESULTS

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID: 84480003 Date Received: 3/27/2013 11:00 Matrix: Vapor
Sample ID: B-3 Date Collected: 3/20/2013 11:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	0.096J	ppmv	1.0	0.095	1			4/1/2013 23:41	SL	
1,1-Dichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/1/2013 23:41	SL	
Methylene Chloride	2.0 U	ppmv	2.0	0.19	1			4/1/2013 23:41	SL	
trans-1,2-Dichloroethene	0.010 U	ppmv	0.010	0.0080	1			4/1/2013 23:41	SL	
1,1-Dichloroethane	0.020 U	ppmv	0.020	0.0040	1			4/1/2013 23:41	SL	
cis-1,2-Dichloroethene	0.020 U	ppmv	0.020	0.0070	1			4/1/2013 23:41	SL	
Chloroform	0.036	ppmv	0.0050	0.0010	1			4/1/2013 23:41	SL	
1,1,1-Trichloroethane	0.0050 U	ppmv	0.0050	0.0010	1			4/1/2013 23:41	SL	
Carbon Tetrachloride	0.0050 U	ppmv	0.0050	0.0010	1			4/1/2013 23:41	SL	
Trichloroethene	0.0022J	ppmv	0.010	0.0010	1			4/1/2013 23:41	SL	
Tetrachloroethene	0.092	ppmv	0.010	0.0010	1			4/1/2013 23:41	SL	

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ANALYTICAL RESULTS

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID: 84480004 Date Received: 3/27/2013 11:00 Matrix: Vapor
Sample ID: B-4 Date Collected: 3/20/2013 11:21

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	1.0 U	ppmv	1.0	0.095	1			4/2/2013 00:49	SL	
1,1-Dichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 00:49	SL	
Methylene Chloride	2.0 U	ppmv	2.0	0.19	1			4/2/2013 00:49	SL	
trans-1,2-Dichloroethane	0.010 U	ppmv	0.010	0.0080	1			4/2/2013 00:49	SL	
1,1-Dichloroethane	0.020 U	ppmv	0.020	0.0040	1			4/2/2013 00:49	SL	
cis-1,2-Dichloroethene	0.020 U	ppmv	0.020	0.0070	1			4/2/2013 00:49	SL	
Chloroform	0.0012J	ppmv	0.0050	0.0010	1			4/2/2013 00:49	SL	
1,1,1-Trichloroethane	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 00:49	SL	
Carbon Tetrachloride	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 00:49	SL	
Trichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 00:49	SL	
Tetrachloroethene	0.012	ppmv	0.010	0.0010	1			4/2/2013 00:49	SL	

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ANALYTICAL RESULTS

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID: 84480005 Date Received: 3/27/2013 11:00 Matrix: Vapor
Sample ID: B-5 Date Collected: 3/20/2013 10:54

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	1.0 U	ppmv	1.0	0.095	1			4/2/2013 01:57	SL	
1,1-Dichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 01:57	SL	
Methylene Chloride	2.0 U	ppmv	2.0	0.19	1			4/2/2013 01:57	SL	
trans-1,2-Dichloroethene	0.010 U	ppmv	0.010	0.0080	1			4/2/2013 01:57	SL	
1,1-Dichloroethane	0.020 U	ppmv	0.020	0.0040	1			4/2/2013 01:57	SL	
cis-1,2-Dichloroethene	0.020 U	ppmv	0.020	0.0070	1			4/2/2013 01:57	SL	
Chloroform	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 01:57	SL	
1,1,1-Trichloroethane	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 01:57	SL	
Carbon Tetrachloride	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 01:57	SL	
Trichloroethene	0.0034J	ppmv	0.010	0.0010	1			4/2/2013 01:57	SL	
Tetrachloroethene	0.060	ppmv	0.010	0.0010	1			4/2/2013 01:57	SL	

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ANALYTICAL RESULTS

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID: 84480006 Date Received: 3/27/2013 11:00 Matrix: Vapor
Sample ID: B-6 Date Collected: 3/20/2013 10:59

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	1.0 U	ppmv	1.0	0.095	1			4/2/2013 03:05	SL	
1,1-Dichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 03:05	SL	
Methylene Chloride	2.0 U	ppmv	2.0	0.19	1			4/2/2013 03:05	SL	
trans-1,2-Dichloroethene	0.010 U	ppmv	0.010	0.0080	1			4/2/2013 03:05	SL	
1,1-Dichloroethane	0.020 U	ppmv	0.020	0.0040	1			4/2/2013 03:05	SL	
cis-1,2-Dichloroethene	0.020 U	ppmv	0.020	0.0070	1			4/2/2013 03:05	SL	
Chloroform	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 03:05	SL	
1,1,1-Trichloroethane	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 03:05	SL	
Carbon Tetrachloride	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 03:05	SL	
Trichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 03:05	SL	
Tetrachloroethene	0.038	ppmv	0.010	0.0010	1			4/2/2013 03:05	SL	

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ANALYTICAL RESULTS

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID: 84480007 Date Received: 3/27/2013 11:00 Matrix: Vapor
Sample ID: B-7 Date Collected: 3/20/2013 11:07

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	1.0 U	ppmv	1.0	0.095	1			4/2/2013 04:12	SL	
1,1-Dichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 04:12	SL	
Methylene Chloride	2.0 U	ppmv	2.0	0.19	1			4/2/2013 04:12	SL	
trans-1,2-Dichloroethene	0.010 U	ppmv	0.010	0.0080	1			4/2/2013 04:12	SL	
1,1-Dichloroethane	0.020 U	ppmv	0.020	0.0040	1			4/2/2013 04:12	SL	
cis-1,2-Dichloroethene	0.020 U	ppmv	0.020	0.0070	1			4/2/2013 04:12	SL	
Chloroform	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 04:12	SL	
1,1,1-Trichloroethane	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 04:12	SL	
Carbon Tetrachloride	0.0050 U	ppmv	0.0050	0.0010	1			4/2/2013 04:12	SL	
Trichloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 04:12	SL	
Tetrachloroethene	0.010 U	ppmv	0.010	0.0010	1			4/2/2013 04:12	SL	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 8448 MICHIGAN PLAZA / M01046

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).

Disclaimer: The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

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QUALITY CONTROL DATA

Workorder: 8448 MICHIGAN PLAZA / M01046

QC Batch: VAP/1382 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 84480001, 84480002, 84480003, 84480004, 84480005, 84480006, 84480007

METHOD BLANK: 19154

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
1,1-Dichloroethene	ppmv	0.010 U	0.010	
trans-1,2-Dichloroethene	ppmv	0.010 U	0.010	
1,1-Dichloroethane	ppmv	0.020 U	0.020	
cis-1,2-Dichloroethene	ppmv	0.020 U	0.020	
Chloroform	ppmv	0.0050 U	0.0050	
1,1,1-Trichloroethane	ppmv	0.0050 U	0.0050	
Carbon Tetrachloride	ppmv	0.0050 U	0.0050	
Trichloroethene	ppmv	0.010 U	0.010	
Tetrachloroethene	ppmv	0.010 U	0.010	

METHOD BLANK: 19155

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Vinyl Chloride	ppmv	1.0 U	1.0	
Methylene Chloride	ppmv	2.0 U	2.0	

LABORATORY CONTROL SAMPLE & LCSD: 19156 19158

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
1,1-Dichloroethene	ppmv	0.65	0.60	0.58	93	89	75-125	4.4	20	
trans-1,2-Dichloroethene	ppmv	0.65	0.68	0.65	105	100	75-125	4.9	20	
1,1-Dichloroethane	ppmv	0.64	0.68	0.67	106	105	75-125	0.95	20	
cis-1,2-Dichloroethene	ppmv		0.020 U	0.020 U						
Chloroform	ppmv	0.53	0.57	0.55	108	103	75-125	4.7	20	
1,1,1-Trichloroethane	ppmv	0.47	0.51	0.49	109	104	75-125	4.7	20	
Carbon Tetrachloride	ppmv	0.41	0.44	0.42	107	102	75-125	4.8	20	
Trichloroethene	ppmv	0.48	0.53	0.51	111	106	75-125	4.6	20	
Tetrachloroethene	ppmv		0.010 U	0.010 U						

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QUALITY CONTROL DATA

Workorder: 8448 MICHIGAN PLAZA / M01046

LABORATORY CONTROL SAMPLE & LCSD: 19157 19159

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Vinyl Chloride	ppmv		1.0 U	1.0 U						
Methylene Chloride	ppmv		0.76J	0.74J						

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 8448 MICHIGAN PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
84480001	B-1			AM4.02 Vapors	VAP/1382
84480002	B-2			AM4.02 Vapors	VAP/1382
84480003	B-3			AM4.02 Vapors	VAP/1382
84480004	B-4			AM4.02 Vapors	VAP/1382
84480005	B-5			AM4.02 Vapors	VAP/1382
84480006	B-6			AM4.02 Vapors	VAP/1382
84480007	B-7			AM4.02 Vapors	VAP/1382

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Microseeps Lab. Proj. # 5448

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

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Company : Mundell & Associates

Co. Address : 110 S Downey Ave Indianapolis, IN 46219

Phone # : (317) 630-9060 Fax # : (317) 630-9065

Proj. Manager : Mark Bretting

Proj. Name/Number : Michigan Plaza M01046

Sampler's signature : [illegible]

Cooler Temp.

Parameters Requested

Results to : Mark Bretting, Mathew Berg, Mundell

Invoice to : Merle Tebbe, Mundell

Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# Bottles	Chlorinated Solvents	Remarks :
B-1			X		3-20-13	11:48a	2	X	
B-2			X		3-20-13	11:39a	2	X	
B-3			X		3-20-13	11:32a	2	X	
B-4			X		3-20-13	11:24a	2	X	
B-5			X		3-20-13	10:54a	2	X	
B-6			X		3-20-13	10:59a	2	X	
B-7			X		3-20-13	11:07a	2	X	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[illegible]	Mundell	[illegible]	[illegible]	[illegible]	MC	[illegible]	[illegible]
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

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March 11, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5076914

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5076914

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Drinking Water Certification #: 1030
Ohio Microbiology Certification #: 943

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5076914

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5076914001	MMW-9S	Water	02/28/13 09:53	03/01/13 11:10
5076914002	MMW-10S	Water	02/28/13 11:01	03/01/13 11:10
5076914003	MMW-1S	Water	02/28/13 11:45	03/01/13 11:10
5076914004	MMW-8S	Water	02/28/13 12:23	03/01/13 11:10
5076914005	MMW-P-10S	Water	02/28/13 13:09	03/01/13 11:10
5076914006	MMW-P-10D	Water	02/28/13 13:56	03/01/13 11:10
5076914007	Trip Blank	Water	02/28/13 08:00	03/01/13 11:10

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5076914

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5076914001	MMW-9S	EPA 8260	AMV	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5076914002	MMW-10S	EPA 8260	AMV	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5076914003	MMW-1S	EPA 8260	AMV	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5076914004	MMW-8S	EPA 8260	AMV	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5076914005	MMW-P-10S	EPA 8260	AMV	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5076914006	MMW-P-10D	EPA 8260	AMV	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5076914007	Trip Blank	EPA 8260	AMV	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5076914

Sample: MMW-9S Lab ID: 5076914001 Collected: 02/28/13 09:53 Received: 03/01/13 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/08/13 05:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/08/13 05:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/08/13 05:25	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/08/13 05:25	75-35-4	
cis-1,2-Dichloroethene	1990	ug/L	50.0	10		03/08/13 07:19	156-59-2	
trans-1,2-Dichloroethene	48.6	ug/L	5.0	1		03/08/13 05:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/08/13 05:25	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/08/13 05:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/08/13 05:25	91-20-3	
Tetrachloroethene	11.5	ug/L	5.0	1		03/08/13 05:25	127-18-4	
Toluene	ND	ug/L	5.0	1		03/08/13 05:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/08/13 05:25	71-55-6	
Trichloroethene	9.2	ug/L	5.0	1		03/08/13 05:25	79-01-6	
Vinyl chloride	843	ug/L	20.0	10		03/08/13 07:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/08/13 05:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		03/08/13 05:25	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	72-125	1		03/08/13 05:25	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/08/13 05:25	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	5.0	mg/L	0.30	1		03/07/13 20:13	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	116	mg/L	50.0	10		03/06/13 14:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/01/13 14:51		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/01/13 14:51		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5076914

Sample: MMW-10S Lab ID: 5076914002 Collected: 02/28/13 11:01 Received: 03/01/13 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/08/13 07:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/08/13 07:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/08/13 07:58	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/08/13 07:58	75-35-4	
cis-1,2-Dichloroethene	294	ug/L	5.0	1		03/08/13 07:58	156-59-2	
trans-1,2-Dichloroethene	9.2	ug/L	5.0	1		03/08/13 07:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/08/13 07:58	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/08/13 07:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/08/13 07:58	91-20-3	
Tetrachloroethene	41.8	ug/L	5.0	1		03/08/13 07:58	127-18-4	
Toluene	ND	ug/L	5.0	1		03/08/13 07:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/08/13 07:58	71-55-6	
Trichloroethene	25.5	ug/L	5.0	1		03/08/13 07:58	79-01-6	
Vinyl chloride	273	ug/L	2.0	1		03/08/13 07:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/08/13 07:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		03/08/13 07:58	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		03/08/13 07:58	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		03/08/13 07:58	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	5.2	mg/L	0.30	1		03/08/13 03:32	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	257	mg/L	125	25		03/06/13 15:01	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/01/13 14:55		
Nitrogen, Nitrite	0.14	mg/L	0.10	1		03/01/13 14:55		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5076914

Sample: MMW-1S Lab ID: 5076914003 Collected: 02/28/13 11:45 Received: 03/01/13 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/08/13 09:14	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/08/13 09:14	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/08/13 09:14	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/08/13 09:14	75-35-4	
cis-1,2-Dichloroethene	6.6	ug/L	5.0	1		03/08/13 09:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/08/13 09:14	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/08/13 09:14	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/08/13 09:14	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/08/13 09:14	91-20-3	
Tetrachloroethene	477	ug/L	50.0	10		03/08/13 09:52	127-18-4	
Toluene	ND	ug/L	5.0	1		03/08/13 09:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/08/13 09:14	71-55-6	
Trichloroethene	20.5	ug/L	5.0	1		03/08/13 09:14	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/08/13 09:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/08/13 09:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		03/08/13 09:14	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	72-125	1		03/08/13 09:14	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		03/08/13 09:14	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.8	mg/L	0.30	1		03/08/13 04:03	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	44.1	mg/L	12.5	2.5		03/06/13 15:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	25.1	mg/L	0.40	4		03/01/13 15:22		
Nitrogen, Nitrite	ND	mg/L	0.40	4		03/01/13 15:22		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5076914

Sample: MMW-8S Lab ID: 5076914004 Collected: 02/28/13 12:23 Received: 03/01/13 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/08/13 10:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/08/13 10:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/08/13 10:30	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/08/13 10:30	75-35-4	
cis-1,2-Dichloroethene	9.4	ug/L	5.0	1		03/08/13 10:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/08/13 10:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/08/13 10:30	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/08/13 10:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/08/13 10:30	91-20-3	
Tetrachloroethene	6.2	ug/L	5.0	1		03/08/13 10:30	127-18-4	
Toluene	ND	ug/L	5.0	1		03/08/13 10:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/08/13 10:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/08/13 10:30	79-01-6	
Vinyl chloride	152	ug/L	2.0	1		03/08/13 10:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/08/13 10:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/08/13 10:30	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		03/08/13 10:30	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		03/08/13 10:30	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.8	mg/L	0.30	1		03/08/13 04:35	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	138	mg/L	50.0	10		03/06/13 15:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/01/13 15:02		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/01/13 15:02		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5076914

Sample: MMW-P-10S Lab ID: 5076914005 Collected: 02/28/13 13:09 Received: 03/01/13 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/08/13 11:09	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/08/13 11:09	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/08/13 11:09	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/08/13 11:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/08/13 11:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/08/13 11:09	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/08/13 11:09	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/08/13 11:09	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/08/13 11:09	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/08/13 11:09	127-18-4	
Toluene	ND	ug/L	5.0	1		03/08/13 11:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/08/13 11:09	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/08/13 11:09	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/08/13 11:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/08/13 11:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		03/08/13 11:09	1868-53-7	
4-Bromofluorobenzene (S)	89	%.	72-125	1		03/08/13 11:09	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		03/08/13 11:09	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	4.4	mg/L	0.30	1		03/08/13 04:58	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	35.5	mg/L	12.5	2.5		03/06/13 15:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/01/13 15:04		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/01/13 15:04		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5076914

Sample: MMW-P-10D Lab ID: 5076914006 Collected: 02/28/13 13:56 Received: 03/01/13 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/08/13 11:47	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/08/13 11:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/08/13 11:47	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/08/13 11:47	75-35-4	
cis-1,2-Dichloroethene	8.9	ug/L	5.0	1		03/08/13 11:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/08/13 11:47	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/08/13 11:47	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/08/13 11:47	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/08/13 11:47	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/08/13 11:47	127-18-4	
Toluene	ND	ug/L	5.0	1		03/08/13 11:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/08/13 11:47	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/08/13 11:47	79-01-6	
Vinyl chloride	181	ug/L	2.0	1		03/08/13 11:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/08/13 11:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		03/08/13 11:47	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	72-125	1		03/08/13 11:47	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		03/08/13 11:47	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.9	mg/L	0.30	1		03/08/13 05:30	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	82.1	mg/L	25.0	5		03/06/13 15:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/01/13 15:06		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/01/13 15:06		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5076914

Sample: Trip Blank Lab ID: 5076914007 Collected: 02/28/13 08:00 Received: 03/01/13 11:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/08/13 13:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/08/13 13:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/08/13 13:03	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/08/13 13:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/08/13 13:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/08/13 13:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/08/13 13:03	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/08/13 13:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/08/13 13:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/08/13 13:03	127-18-4	
Toluene	ND	ug/L	5.0	1		03/08/13 13:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/08/13 13:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/08/13 13:03	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/08/13 13:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/08/13 13:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		03/08/13 13:03	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		03/08/13 13:03	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		03/08/13 13:03	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5076914

QC Batch: MSV/51114 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006, 5076914007

METHOD BLANK: 881372 Matrix: Water
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006, 5076914007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/08/13 04:47	
1,1-Dichloroethene	ug/L	ND	5.0	03/08/13 04:47	
Benzene	ug/L	ND	5.0	03/08/13 04:47	
Carbon tetrachloride	ug/L	ND	5.0	03/08/13 04:47	
Chloroform	ug/L	ND	5.0	03/08/13 04:47	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/08/13 04:47	
Ethylbenzene	ug/L	ND	5.0	03/08/13 04:47	
Methylene Chloride	ug/L	ND	5.0	03/08/13 04:47	
Naphthalene	ug/L	ND	5.0	03/08/13 04:47	
Tetrachloroethene	ug/L	ND	5.0	03/08/13 04:47	
Toluene	ug/L	ND	5.0	03/08/13 04:47	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/08/13 04:47	
Trichloroethene	ug/L	ND	5.0	03/08/13 04:47	
Vinyl chloride	ug/L	ND	2.0	03/08/13 04:47	
Xylene (Total)	ug/L	ND	10.0	03/08/13 04:47	
4-Bromofluorobenzene (S)	%.	89	72-125	03/08/13 04:47	
Dibromofluoromethane (S)	%.	103	83-123	03/08/13 04:47	
Toluene-d8 (S)	%.	99	81-114	03/08/13 04:47	

LABORATORY CONTROL SAMPLE: 881373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.7	93	69-126	
1,1-Dichloroethene	ug/L	50	45.3	91	75-145	
Benzene	ug/L	50	45.8	92	76-123	
Carbon tetrachloride	ug/L	50	48.1	96	65-125	
Chloroform	ug/L	50	51.5	103	73-122	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	79-129	
Ethylbenzene	ug/L	50	45.6	91	75-120	
Methylene Chloride	ug/L	50	48.6	97	61-138	
Naphthalene	ug/L	50	45.4	91	62-130	
Tetrachloroethene	ug/L	50	50.8	102	57-125	
Toluene	ug/L	50	46.5	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	47.5	95	71-145	
Trichloroethene	ug/L	50	51.7	103	77-122	
Vinyl chloride	ug/L	50	47.1	94	61-146	
Xylene (Total)	ug/L	150	135	90	72-126	
4-Bromofluorobenzene (S)	%.			101	72-125	
Dibromofluoromethane (S)	%.			101	83-123	
Toluene-d8 (S)	%.			100	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5076914

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881374 881375

Parameter	Units	5076914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	44.1	44.7	88	89	37-136	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	44.8	45.0	90	90	54-152	0	20	
Benzene	ug/L	ND	50	50	44.1	42.1	88	84	52-134	5	20	
Carbon tetrachloride	ug/L	ND	50	50	44.6	43.3	89	87	26-136	3	20	
Chloroform	ug/L	ND	50	50	48.7	48.3	97	97	50-134	1	20	
cis-1,2-Dichloroethene	ug/L	1990	50	50	1700	1760	-573	-448	48-145	4	20	
Ethylbenzene	ug/L	ND	50	50	39.4	35.4	79	71	29-132	11	20	
Methylene Chloride	ug/L	ND	50	50	46.1	47.6	92	95	47-141	3	20	
Naphthalene	ug/L	ND	50	50	40.9	41.1	82	82	40-124	0	20	
Tetrachloroethene	ug/L	11.5	50	50	54.8	51.7	87	80	30-124	6	20	
Toluene	ug/L	ND	50	50	42.4	39.6	85	79	42-130	7	20	
trans-1,2-Dichloroethene	ug/L	48.6	50	50	92.9	91.7	89	86	48-144	1	20	
Trichloroethene	ug/L	9.2	50	50	55.0	54.2	92	90	44-130	2	20	
Vinyl chloride	ug/L	843	50	50	648	698	-390	-289	45-159	8	20	M0
Xylene (Total)	ug/L	ND	150	150	112	106	75	71	29-131	6	20	
4-Bromofluorobenzene (S)	%.						101	99	72-125		20	
Dibromofluoromethane (S)	%.						97	102	83-123		20	
Toluene-d8 (S)	%.						98	99	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5076914

QC Batch: OHIO/6087 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006

METHOD BLANK: 881283 Matrix: Water
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/07/13 19:26	N2

LABORATORY CONTROL SAMPLE: 881284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	99	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881286 881287

Parameter	Units	5076914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.0	4	4	8.9	8.8	99	95	75-125	2	20	N2

SAMPLE DUPLICATE: 881285

Parameter	Units	5076914001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	5.0	5.0	1	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5076914

QC Batch: WET/11218 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006

METHOD BLANK: 880702 Matrix: Water
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	03/06/13 14:52	

LABORATORY CONTROL SAMPLE: 880703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 880704 880705

Parameter	Units	5076914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	116	200	200	344	349	114	117	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 880725

Parameter	Units	5077034013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	69.4	100	168	99	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5076914

QC Batch: WETA/9289 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006

METHOD BLANK: 878729 Matrix: Water
Associated Lab Samples: 5076914001, 5076914002, 5076914003, 5076914004, 5076914005, 5076914006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/01/13 14:47	
Nitrogen, Nitrite	mg/L	ND	0.10	03/01/13 14:47	

LABORATORY CONTROL SAMPLE: 878730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	102	90-110	
Nitrogen, Nitrite	mg/L	2	1.9	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 878731 878732

Parameter	Units	5076914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.9	1.9	94	93	90-110	0	20	
Nitrogen, Nitrite	mg/L	ND	2	2	1.8	1.8	86	87	90-110	0	20	M3

MATRIX SPIKE SAMPLE: 878733

Parameter	Units	5076911010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.9	93	90-110	
Nitrogen, Nitrite	mg/L	ND	2	1.8	88	90-110	M0

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5076914

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5076914

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5076914001	MMW-9S	EPA 8260	MSV/51114		
5076914002	MMW-10S	EPA 8260	MSV/51114		
5076914003	MMW-1S	EPA 8260	MSV/51114		
5076914004	MMW-8S	EPA 8260	MSV/51114		
5076914005	MMW-P-10S	EPA 8260	MSV/51114		
5076914006	MMW-P-10D	EPA 8260	MSV/51114		
5076914007	Trip Blank	EPA 8260	MSV/51114		
5076914001	MMW-9S	SM 5310C	OHIO/6087		
5076914002	MMW-10S	SM 5310C	OHIO/6087		
5076914003	MMW-1S	SM 5310C	OHIO/6087		
5076914004	MMW-8S	SM 5310C	OHIO/6087		
5076914005	MMW-P-10S	SM 5310C	OHIO/6087		
5076914006	MMW-P-10D	SM 5310C	OHIO/6087		
5076914001	MMW-9S	ASTM D516-90,02	WET/11218		
5076914002	MMW-10S	ASTM D516-90,02	WET/11218		
5076914003	MMW-1S	ASTM D516-90,02	WET/11218		
5076914004	MMW-8S	ASTM D516-90,02	WET/11218		
5076914005	MMW-P-10S	ASTM D516-90,02	WET/11218		
5076914006	MMW-P-10D	ASTM D516-90,02	WET/11218		
5076914001	MMW-9S	EPA 353.2	WETA/9289		
5076914002	MMW-10S	EPA 353.2	WETA/9289		
5076914003	MMW-1S	EPA 353.2	WETA/9289		
5076914004	MMW-8S	EPA 353.2	WETA/9289		
5076914005	MMW-P-10S	EPA 353.2	WETA/9289		
5076914006	MMW-P-10D	EPA 353.2	WETA/9289		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1576850

Section A Required Client Information:
Company: Mundell & Assoc
Address: 110 S. Downey Ave
Indpls, IN 46219
Email To:
Phone: Fax:
Requested Due Date/TAT: SAT

Section B Required Project Information:
Report To: Mark Breting
Copy To:
Purchase Order No.:
Project Name: M1 Plaza
Project Number: M010416

Section C Invoice Information:
Attention: Merle Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	SL Kjeld 351.2	TOC 415.2	Nitrate 353.2	Sulfate 375.4	Chloride 325.2	8/1/13 TPA	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5076914
1	MMW-9S	WT	G			2-28-13	9:53A		5	1	1		3	4					X	X	X	X	X			-001
2	MS/MSD						9:53A		10	1	1		3	4									X			↓
3	MMW-10S						11:01A		5	1	1		3										X			-002
4	MMW-1S						11:45A		5	1	1		3										X			-003
5	MMW-8S						12:23p		5	1	1		3										X			-004
6	MMW-P-10S						1:09p		5	1	1		3										X			-005
7	MMW-P-10D						1:56p		5	1	1		3										X			-006
8	Trip Blank												3													-007
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3/1/13	1110	[signature]	3/1/13	1110	0.9°C	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-28-13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

WI/ CP 3/1/13 1224

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell + Assoc Project # 5076914

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used 1 2 3 4 5 A B C D E Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 0.9°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and initials of person examining contents: CP 3/1/13

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes	☑No	☐N/A	8. No Time or Dates on sample labels
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	10.
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
[illegible]				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Amy Dammeyer Date/Time: 3/1/13 VM

Comments/ Resolution: Need nitrate nitrite

Project Manager Review: T Sayer Date: 3/1/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Mundell + Assoc

COC PAGE 1 of 1
COC ID# 1576850

Project # 5076914

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3									1		1				
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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March 13, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077034

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077034

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Drinking Water Certification #: 1030
Ohio Microbiology Certification #: 943

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077034

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077034001	MMW-12S	Water	03/04/13 09:08	03/05/13 11:35
5077034002	MMW-14D	Water	03/04/13 09:48	03/05/13 11:35
5077034003	MMW-11S	Water	03/04/13 10:56	03/05/13 11:35
5077034004	MMW-11D	Water	03/04/13 11:18	03/05/13 11:35
5077034005	MMW-13D	Water	03/04/13 12:36	03/05/13 11:35
5077034006	MMW-P-08	Water	03/04/13 13:07	03/05/13 11:35
5077034007	MMW-P-07	Water	03/04/13 13:40	03/05/13 11:35
5077034008	MMW-P-01	Water	03/04/13 14:13	03/05/13 11:35
5077034009	MMW-P-06	Water	03/04/13 14:48	03/05/13 11:35
5077034010	MMW-P-05	Water	03/04/13 15:33	03/05/13 11:35
5077034011	MMW-P-03S	Water	03/04/13 16:12	03/05/13 11:35
5077034012	MMW-P-03D	Water	03/04/13 16:40	03/05/13 11:35
5077034013	MMW-P-02	Water	03/04/13 17:09	03/05/13 11:35
5077034014	Trip Blank	Water	03/04/13 08:00	03/05/13 11:35

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077034

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077034001	MMW-12S	EPA 8260	GRM	18
5077034002	MMW-14D	EPA 8260	GRM	18
5077034003	MMW-11S	EPA 8260	GRM	18
5077034004	MMW-11D	EPA 8260	GRM	18
5077034005	MMW-13D	EPA 8260	GRM	18
5077034006	MMW-P-08	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077034007	MMW-P-07	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077034008	MMW-P-01	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077034009	MMW-P-06	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077034010	MMW-P-05	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077034011	MMW-P-03S	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077034012	MMW-P-03D	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077034013	MMW-P-02	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077034

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077034014	Trip Blank	EPA 8260	GRM	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-12S Lab ID: 5077034001 Collected: 03/04/13 09:08 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 01:04	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 01:04	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 01:04	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 01:04	75-35-4	
cis-1,2-Dichloroethene	42.8	ug/L	5.0	1		03/12/13 01:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 01:04	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 01:04	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 01:04	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 01:04	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 01:04	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 01:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 01:04	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 01:04	79-01-6	
Vinyl chloride	2.3	ug/L	2.0	1		03/12/13 01:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 01:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		03/12/13 01:04	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	72-125	1		03/12/13 01:04	460-00-4	
Toluene-d8 (S)	109	%.	81-114	1		03/12/13 01:04	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-14D Lab ID: 5077034002 Collected: 03/04/13 09:48 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 02:46	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 02:46	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 02:46	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 02:46	75-35-4	
cis-1,2-Dichloroethene	983	ug/L	50.0	10		03/12/13 03:20	156-59-2	
trans-1,2-Dichloroethene	16.2	ug/L	5.0	1		03/12/13 02:46	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 02:46	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 02:46	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 02:46	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 02:46	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 02:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 02:46	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 02:46	79-01-6	
Vinyl chloride	96.4	ug/L	2.0	1		03/12/13 02:46	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 02:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/12/13 02:46	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	72-125	1		03/12/13 02:46	460-00-4	
Toluene-d8 (S)	109	%.	81-114	1		03/12/13 02:46	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-11S Lab ID: 5077034003 Collected: 03/04/13 10:56 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 03:54	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 03:54	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 03:54	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 03:54	75-35-4	
cis-1,2-Dichloroethene	5.2	ug/L	5.0	1		03/12/13 03:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 03:54	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 03:54	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 03:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 03:54	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 03:54	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 03:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 03:54	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 03:54	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/12/13 03:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 03:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		03/12/13 03:54	1868-53-7	
4-Bromofluorobenzene (S)	89	%.	72-125	1		03/12/13 03:54	460-00-4	
Toluene-d8 (S)	109	%.	81-114	1		03/12/13 03:54	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-11D **Lab ID: 5077034004** Collected: 03/04/13 11:18 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 04:29	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 04:29	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 04:29	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 04:29	75-35-4	
cis-1,2-Dichloroethene	221	ug/L	5.0	1		03/12/13 04:29	156-59-2	
trans-1,2-Dichloroethene	18.9	ug/L	5.0	1		03/12/13 04:29	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 04:29	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 04:29	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 04:29	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 04:29	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 04:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 04:29	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 04:29	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/12/13 04:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 04:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		03/12/13 04:29	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		03/12/13 04:29	460-00-4	
Toluene-d8 (S)	110	%.	81-114	1		03/12/13 04:29	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-13D Lab ID: 5077034005 Collected: 03/04/13 12:36 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 05:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 05:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 05:37	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 05:37	75-35-4	
cis-1,2-Dichloroethene	374	ug/L	50.0	10		03/12/13 06:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 05:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 05:37	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 05:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 05:37	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 05:37	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 05:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 05:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 05:37	79-01-6	
Vinyl chloride	21.7	ug/L	2.0	1		03/12/13 05:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 05:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		03/12/13 05:37	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		03/12/13 05:37	460-00-4	
Toluene-d8 (S)	110	%.	81-114	1		03/12/13 05:37	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-08 **Lab ID: 5077034006** Collected: 03/04/13 13:07 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 06:46	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 06:46	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 06:46	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 06:46	75-35-4	
cis-1,2-Dichloroethene	111	ug/L	5.0	1		03/12/13 06:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 06:46	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 06:46	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 06:46	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 06:46	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 06:46	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 06:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 06:46	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 06:46	79-01-6	
Vinyl chloride	**934**	ug/L	20.0	10		03/12/13 07:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 06:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	83-123	1		03/12/13 06:46	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	72-125	1		03/12/13 06:46	460-00-4	
Toluene-d8 (S)	109	%.	81-114	1		03/12/13 06:46	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	5.0	mg/L	0.30	1		03/08/13 06:30	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	162	mg/L	50.0	10		03/06/13 15:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:00		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:00		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-07 **Lab ID: 5077034007** Collected: 03/04/13 13:40 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 07:54	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 07:54	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 07:54	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 07:54	75-35-4	
cis-1,2-Dichloroethene	23.9	ug/L	5.0	1		03/12/13 07:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 07:54	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 07:54	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 07:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 07:54	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 07:54	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 07:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 07:54	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 07:54	79-01-6	
Vinyl chloride	386	ug/L	20.0	10		03/12/13 08:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 07:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	83-123	1		03/12/13 07:54	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		03/12/13 07:54	460-00-4	
Toluene-d8 (S)	111	%.	81-114	1		03/12/13 07:54	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	7.0	mg/L	0.30	1		03/08/13 07:04	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	81.4	mg/L	50.0	10		03/06/13 15:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:03		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:03		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-01 Lab ID: 5077034008 Collected: 03/04/13 14:13 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 09:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 09:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 09:03	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 09:03	75-35-4	
cis-1,2-Dichloroethene	527	ug/L	100	20		03/12/13 09:37	156-59-2	
trans-1,2-Dichloroethene	12.9	ug/L	5.0	1		03/12/13 09:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 09:03	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 09:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 09:03	91-20-3	
Tetrachloroethene	24.4	ug/L	5.0	1		03/12/13 09:03	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 09:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 09:03	71-55-6	
Trichloroethene	12.4	ug/L	5.0	1		03/12/13 09:03	79-01-6	
Vinyl chloride	2810	ug/L	40.0	20		03/12/13 09:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 09:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		03/12/13 09:03	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	72-125	1		03/12/13 09:03	460-00-4	
Toluene-d8 (S)	111	%.	81-114	1		03/12/13 09:03	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	4.1	mg/L	0.30	1		03/08/13 07:36	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	118	mg/L	50.0	10		03/06/13 15:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:04		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:04		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-06 **Lab ID: 5077034009** Collected: 03/04/13 14:48 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	50.0	10		03/12/13 15:46	71-43-2	
Carbon tetrachloride	ND	ug/L	50.0	10		03/12/13 15:46	56-23-5	
Chloroform	ND	ug/L	50.0	10		03/12/13 15:46	67-66-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		03/12/13 15:46	75-35-4	
cis-1,2-Dichloroethene	2230	ug/L	50.0	10		03/12/13 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		03/12/13 15:46	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		03/12/13 15:46	100-41-4	
Methylene Chloride	ND	ug/L	50.0	10		03/12/13 15:46	75-09-2	
Naphthalene	ND	ug/L	50.0	10		03/12/13 15:46	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		03/12/13 15:46	127-18-4	
Toluene	ND	ug/L	50.0	10		03/12/13 15:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		03/12/13 15:46	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		03/12/13 15:46	79-01-6	
Vinyl chloride	5010	ug/L	200	100		03/12/13 16:20	75-01-4	
Xylene (Total)	ND	ug/L	100	10		03/12/13 15:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	10		03/12/13 15:46	1868-53-7	D4
4-Bromofluorobenzene (S)	92	%.	72-125	10		03/12/13 15:46	460-00-4	
Toluene-d8 (S)	109	%.	81-114	10		03/12/13 15:46	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	4.4	mg/L	0.30	1		03/08/13 19:52	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	44.1	mg/L	12.5	2.5		03/06/13 15:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:05		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:05		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-05 **Lab ID: 5077034010** Collected: 03/04/13 15:33 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 16:54	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 16:54	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 16:54	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 16:54	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 16:54	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 16:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 16:54	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 16:54	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 16:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 16:54	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 16:54	79-01-6	
Vinyl chloride	173	ug/L	2.0	1		03/12/13 16:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 16:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	83-123	1		03/12/13 16:54	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		03/12/13 16:54	460-00-4	
Toluene-d8 (S)	111	%.	81-114	1		03/12/13 16:54	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	27.1	mg/L	0.30	1		03/08/13 20:17	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	44.3	mg/L	12.5	2.5		03/06/13 15:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:06		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:06		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-03S Lab ID: 5077034011 Collected: 03/04/13 16:12 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 17:28	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 17:28	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 17:28	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 17:28	75-35-4	
cis-1,2-Dichloroethene	49.4	ug/L	5.0	1		03/12/13 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 17:28	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 17:28	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 17:28	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 17:28	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 17:28	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 17:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 17:28	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 17:28	79-01-6	
Vinyl chloride	124	ug/L	2.0	1		03/12/13 17:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 17:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		03/12/13 17:28	1868-53-7	
4-Bromofluorobenzene (S)	89	%.	72-125	1		03/12/13 17:28	460-00-4	
Toluene-d8 (S)	110	%.	81-114	1		03/12/13 17:28	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	3.1	mg/L	0.30	1		03/08/13 20:49	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	27.9	mg/L	12.5	2.5		03/06/13 15:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:11		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:11		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-03D Lab ID: 5077034012 Collected: 03/04/13 16:40 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 18:02	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 18:02	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 18:02	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 18:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 18:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 18:02	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 18:02	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 18:02	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 18:02	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 18:02	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 18:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 18:02	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 18:02	79-01-6	
Vinyl chloride	51.7	ug/L	2.0	1		03/12/13 18:02	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 18:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	83-123	1		03/12/13 18:02	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	72-125	1		03/12/13 18:02	460-00-4	
Toluene-d8 (S)	110	%.	81-114	1		03/12/13 18:02	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	4.3	mg/L	0.30	1		03/08/13 21:13	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	19.9	mg/L	5.0	1		03/06/13 15:22	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:12		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:12		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: MMW-P-02 Lab ID: 5077034013 Collected: 03/04/13 17:09 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 18:36	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 18:36	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 18:36	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 18:36	75-35-4	
cis-1,2-Dichloroethene	52.5	ug/L	5.0	1		03/12/13 18:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 18:36	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 18:36	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 18:36	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 18:36	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 18:36	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 18:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 18:36	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 18:36	79-01-6	
Vinyl chloride	347	ug/L	20.0	10		03/12/13 19:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 18:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		03/12/13 18:36	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	72-125	1		03/12/13 18:36	460-00-4	
Toluene-d8 (S)	111	%.	81-114	1		03/12/13 18:36	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.7	mg/L	0.30	1		03/08/13 21:45	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	69.4	mg/L	25.0	5		03/06/13 15:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/06/13 09:13		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/06/13 09:13		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077034

Sample: Trip Blank Lab ID: 5077034014 Collected: 03/04/13 08:00 Received: 03/05/13 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/12/13 19:44	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/12/13 19:44	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/12/13 19:44	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/12/13 19:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 19:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/12/13 19:44	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/12/13 19:44	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/12/13 19:44	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/12/13 19:44	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/12/13 19:44	127-18-4	
Toluene	ND	ug/L	5.0	1		03/12/13 19:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/12/13 19:44	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/12/13 19:44	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/12/13 19:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/12/13 19:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		03/12/13 19:44	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	72-125	1		03/12/13 19:44	460-00-4	
Toluene-d8 (S)	111	%.	81-114	1		03/12/13 19:44	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077034

QC Batch: MSV/51174 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077034001, 5077034002, 5077034003, 5077034004, 5077034005, 5077034006, 5077034007, 5077034008

METHOD BLANK: 882921 Matrix: Water
Associated Lab Samples: 5077034001, 5077034002, 5077034003, 5077034004, 5077034005, 5077034006, 5077034007, 5077034008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/12/13 00:30	
1,1-Dichloroethene	ug/L	ND	5.0	03/12/13 00:30	
Benzene	ug/L	ND	5.0	03/12/13 00:30	
Carbon tetrachloride	ug/L	ND	5.0	03/12/13 00:30	
Chloroform	ug/L	ND	5.0	03/12/13 00:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/12/13 00:30	
Ethylbenzene	ug/L	ND	5.0	03/12/13 00:30	
Methylene Chloride	ug/L	ND	5.0	03/12/13 00:30	
Naphthalene	ug/L	ND	5.0	03/12/13 00:30	
Tetrachloroethene	ug/L	ND	5.0	03/12/13 00:30	
Toluene	ug/L	ND	5.0	03/12/13 00:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/12/13 00:30	
Trichloroethene	ug/L	ND	5.0	03/12/13 00:30	
Vinyl chloride	ug/L	ND	2.0	03/12/13 00:30	
Xylene (Total)	ug/L	ND	10.0	03/12/13 00:30	
4-Bromofluorobenzene (S)	%.	93	72-125	03/12/13 00:30	
Dibromofluoromethane (S)	%.	104	83-123	03/12/13 00:30	
Toluene-d8 (S)	%.	108	81-114	03/12/13 00:30	

LABORATORY CONTROL SAMPLE: 882922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	69-126	
1,1-Dichloroethene	ug/L	50	51.3	103	75-145	
Benzene	ug/L	50	51.1	102	76-123	
Carbon tetrachloride	ug/L	50	55.8	112	65-125	
Chloroform	ug/L	50	56.0	112	73-122	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	79-129	
Ethylbenzene	ug/L	50	54.4	109	75-120	
Methylene Chloride	ug/L	50	51.4	103	61-138	
Naphthalene	ug/L	50	46.4	93	62-130	
Tetrachloroethene	ug/L	50	54.3	109	57-125	
Toluene	ug/L	50	54.8	110	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	71-145	
Trichloroethene	ug/L	50	58.2	116	77-122	
Vinyl chloride	ug/L	50	51.1	102	61-146	
Xylene (Total)	ug/L	150	161	107	72-126	
4-Bromofluorobenzene (S)	%.			98	72-125	
Dibromofluoromethane (S)	%.			99	83-123	
Toluene-d8 (S)	%.			106	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077034

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 882923 882924

Parameter	Units	5077034001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	53.4	54.1	107	108	37-136	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	50.6	50.7	101	101	54-152	0	20	
Benzene	ug/L	ND	50	50	51.8	51.5	104	103	52-134	1	20	
Carbon tetrachloride	ug/L	ND	50	50	54.9	55.9	110	112	26-136	2	20	
Chloroform	ug/L	ND	50	50	56.3	56.7	113	113	50-134	1	20	
cis-1,2-Dichloroethene	ug/L	42.8	50	50	90.8	90.0	96	95	48-145	1	20	
Ethylbenzene	ug/L	ND	50	50	52.9	53.7	106	107	29-132	2	20	
Methylene Chloride	ug/L	ND	50	50	51.4	52.4	103	105	47-141	2	20	
Naphthalene	ug/L	ND	50	50	43.6	43.6	87	87	40-124	0	20	
Tetrachloroethene	ug/L	ND	50	50	52.6	52.9	105	106	30-124	1	20	
Toluene	ug/L	ND	50	50	54.4	54.3	107	107	42-130	0	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.1	53.2	103	103	48-144	0	20	
Trichloroethene	ug/L	ND	50	50	58.4	58.0	117	116	44-130	1	20	
Vinyl chloride	ug/L	2.3	50	50	51.3	51.4	98	98	45-159	0	20	
Xylene (Total)	ug/L	ND	150	150	156	158	104	105	29-131	1	20	
4-Bromofluorobenzene (S)	%.						95	98	72-125		20	
Dibromofluoromethane (S)	%.						101	101	83-123		20	
Toluene-d8 (S)	%.						104	106	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077034

QC Batch: MSV/51209 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077034009, 5077034010, 5077034011, 5077034012, 5077034013, 5077034014

METHOD BLANK: 883493 Matrix: Water
Associated Lab Samples: 5077034009, 5077034010, 5077034011, 5077034012, 5077034013, 5077034014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/12/13 13:49	
1,1-Dichloroethene	ug/L	ND	5.0	03/12/13 13:49	
Benzene	ug/L	ND	5.0	03/12/13 13:49	
Carbon tetrachloride	ug/L	ND	5.0	03/12/13 13:49	
Chloroform	ug/L	ND	5.0	03/12/13 13:49	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/12/13 13:49	
Ethylbenzene	ug/L	ND	5.0	03/12/13 13:49	
Methylene Chloride	ug/L	ND	5.0	03/12/13 13:49	
Naphthalene	ug/L	ND	5.0	03/12/13 13:49	
Tetrachloroethene	ug/L	ND	5.0	03/12/13 13:49	
Toluene	ug/L	ND	5.0	03/12/13 13:49	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/12/13 13:49	
Trichloroethene	ug/L	ND	5.0	03/12/13 13:49	
Vinyl chloride	ug/L	ND	2.0	03/12/13 13:49	
Xylene (Total)	ug/L	ND	10.0	03/12/13 13:49	
4-Bromofluorobenzene (S)	%.	93	72-125	03/12/13 13:49	
Dibromofluoromethane (S)	%.	104	83-123	03/12/13 13:49	
Toluene-d8 (S)	%.	110	81-114	03/12/13 13:49	

LABORATORY CONTROL SAMPLE: 883494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.0	102	69-126	
1,1-Dichloroethene	ug/L	50	48.2	96	75-145	
Benzene	ug/L	50	48.6	97	76-123	
Carbon tetrachloride	ug/L	50	52.5	105	65-125	
Chloroform	ug/L	50	53.1	106	73-122	
cis-1,2-Dichloroethene	ug/L	50	48.4	97	79-129	
Ethylbenzene	ug/L	50	50.5	101	75-120	
Methylene Chloride	ug/L	50	48.9	98	61-138	
Naphthalene	ug/L	50	43.5	87	62-130	
Tetrachloroethene	ug/L	50	50.1	100	57-125	
Toluene	ug/L	50	50.9	102	72-124	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	71-145	
Trichloroethene	ug/L	50	54.8	110	77-122	
Vinyl chloride	ug/L	50	47.1	94	61-146	
Xylene (Total)	ug/L	150	149	100	72-126	
4-Bromofluorobenzene (S)	%.			96	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			105	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077034

QC Batch: OHIO/6087 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5077034006, 5077034007, 5077034008

METHOD BLANK: 881283 Matrix: Water
Associated Lab Samples: 5077034006, 5077034007, 5077034008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/07/13 19:26	N2

LABORATORY CONTROL SAMPLE: 881284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	99	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881286 881287

Parameter	Units	5076914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.0	4	4	8.9	8.8	99	95	75-125	2	20	N2

SAMPLE DUPLICATE: 881285

Parameter	Units	5076914001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	5.0	5.0	1	20	N2

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077034

QC Batch: OHIO/6089 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5077034009, 5077034010, 5077034011, 5077034012, 5077034013

METHOD BLANK: 881328 Matrix: Water
Associated Lab Samples: 5077034009, 5077034010, 5077034011, 5077034012, 5077034013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/08/13 16:48	N2

LABORATORY CONTROL SAMPLE: 881329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881331 881332

Parameter	Units	5077084002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	28.4	4	4	32.0	33.2	90	118	75-125	3	20	N2

SAMPLE DUPLICATE: 881330

Parameter	Units	5077084002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	28.4	28.9	2	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077034

QC Batch: WET/11218 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5077034006, 5077034007, 5077034008, 5077034009, 5077034010, 5077034011, 5077034012, 5077034013

METHOD BLANK: 880702 Matrix: Water
Associated Lab Samples: 5077034006, 5077034007, 5077034008, 5077034009, 5077034010, 5077034011, 5077034012, 5077034013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	03/06/13 14:52	

LABORATORY CONTROL SAMPLE: 880703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 880704 880705

Parameter	Units	5076914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	116	200	200	344	349	114	117	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 880725

Parameter	Units	5077034013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	69.4	100	168	99	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077034

QC Batch: WETA/9298 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5077034006, 5077034007, 5077034008, 5077034009, 5077034010, 5077034011, 5077034012, 5077034013

METHOD BLANK: 880275 Matrix: Water
Associated Lab Samples: 5077034006, 5077034007, 5077034008, 5077034009, 5077034010, 5077034011, 5077034012, 5077034013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/06/13 08:57	
Nitrogen, Nitrite	mg/L	ND	0.10	03/06/13 08:57	

LABORATORY CONTROL SAMPLE: 880276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.9	97	90-110	
Nitrogen, Nitrite	mg/L	2	1.9	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 880277 880278

Parameter	Units	5077034006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.8	1.8	85	85	90-110	0	20	M3
Nitrogen, Nitrite	mg/L	ND	2	2	1.7	1.7	80	81	90-110	0	20	

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077034

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D4	Sample was diluted due to the presence of high levels of target analytes.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077034

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077034001	MMW-12S	EPA 8260	MSV/51174		
5077034002	MMW-14D	EPA 8260	MSV/51174		
5077034003	MMW-11S	EPA 8260	MSV/51174		
5077034004	MMW-11D	EPA 8260	MSV/51174		
5077034005	MMW-13D	EPA 8260	MSV/51174		
5077034006	MMW-P-08	EPA 8260	MSV/51174		
5077034007	MMW-P-07	EPA 8260	MSV/51174		
5077034008	MMW-P-01	EPA 8260	MSV/51174		
5077034009	MMW-P-06	EPA 8260	MSV/51209		
5077034010	MMW-P-05	EPA 8260	MSV/51209		
5077034011	MMW-P-03S	EPA 8260	MSV/51209		
5077034012	MMW-P-03D	EPA 8260	MSV/51209		
5077034013	MMW-P-02	EPA 8260	MSV/51209		
5077034014	Trip Blank	EPA 8260	MSV/51209		
5077034006	MMW-P-08	SM 5310C	OHIO/6087		
5077034007	MMW-P-07	SM 5310C	OHIO/6087		
5077034008	MMW-P-01	SM 5310C	OHIO/6087		
5077034009	MMW-P-06	SM 5310C	OHIO/6089		
5077034010	MMW-P-05	SM 5310C	OHIO/6089		
5077034011	MMW-P-03S	SM 5310C	OHIO/6089		
5077034012	MMW-P-03D	SM 5310C	OHIO/6089		
5077034013	MMW-P-02	SM 5310C	OHIO/6089		
5077034006	MMW-P-08	ASTM D516-90,02	WET/11218		
5077034007	MMW-P-07	ASTM D516-90,02	WET/11218		
5077034008	MMW-P-01	ASTM D516-90,02	WET/11218		
5077034009	MMW-P-06	ASTM D516-90,02	WET/11218		
5077034010	MMW-P-05	ASTM D516-90,02	WET/11218		
5077034011	MMW-P-03S	ASTM D516-90,02	WET/11218		
5077034012	MMW-P-03D	ASTM D516-90,02	WET/11218		
5077034013	MMW-P-02	ASTM D516-90,02	WET/11218		
5077034006	MMW-P-08	EPA 353.2	WETA/9298		
5077034007	MMW-P-07	EPA 353.2	WETA/9298		
5077034008	MMW-P-01	EPA 353.2	WETA/9298		
5077034009	MMW-P-06	EPA 353.2	WETA/9298		
5077034010	MMW-P-05	EPA 353.2	WETA/9298		
5077034011	MMW-P-03S	EPA 353.2	WETA/9298		
5077034012	MMW-P-03D	EPA 353.2	WETA/9298		
5077034013	MMW-P-02	EPA 353.2	WETA/9298		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1391786

Section A Required Client Information:
Company: Mundell & Assoc.
Address: 110 S. Downey Ave
Indpls, IN 46219
Email To:
Phone: 317-681-9000 Fax:
Requested Due Date/TAT: STT

Section B Required Project Information:
Report To: Mark Bretting
Copy To:
Purchase Order No.:
Project Name: MT Pleasant
Project Number: M01046

Section C Invoice Information:
Attention: Merle Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): 5077034

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	SL VOC 8260	TOC 415.1	Antacid/Antacid 350.2	Sulfate 375.4							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-12S	WT	G			3-4-13	9:08A		3				X						X	X	X	X	ND							-001
2	MMW-14D						9:48A		3				X																	-002
3	MMW-11S						10:36a		3				X																	-003
4	MMW-11D						11:18A		3				X																	-004
5	MMW-13D						12:36p		3				X																	-005
6	MMW-P-08						1:07p		5	X	X		X						X	X	X	X								-006
7	MMW-P-07						1:40p		5	X	X		X																	-007
8	MMW-P-01						2:13p		5	X	X		X																	-008
9	MMW-P-06						2:48p		5	X	X		X																	-009
10	MMW-P-05						3:33p		5	X	X		X																	-010
11	MMW-P-03S						4:12p		5	X	X		X																	-011
12	MMW-P-03D						4:40p		5	X	X		X																	-012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3/5/13	11:35	[signature]	3/5/13	11:35	0.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Damauer
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3-4-13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

WT/PACE

ORIGINAL 3-5-13 1:05

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Reference 28 Page 145

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1391775

Section A Required Client Information:

Company: Mundell & Assoc.
Address: 112 S. Downey Ave
Indpls, IN 46219
Email To:
Phone: Fax:
Requested Due Date/TAT: SAT

Section B Required Project Information:

Report To: Mark Breting
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M01046

Section C Invoice Information:

Attention: Merle Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC 8260	TOC 4151	Nitrate/Nitrite 353.2	Sulfate 375.4	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1-02	WT	G			3-4-13	5:04		5	X	X		X						X	X	X	X		03
2	Trip Blank												X						X					04
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

5077034

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3/5/13	11:35	[signature]	3/5/13	11:35	0.6	Y	N	Y

ORIGINAL H.S.
3-5-13
1:05

WI/PACE

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 3-4-13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 5077034

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other FOAM

Thermometer Used 1 2 3 4 5 6 A B C D E Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 0.6 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 1-2 3-5-13

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	10. MMW-P-05 (1-vial)
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review:				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: J Sayer Date: 3/5/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Mundell & Assoc

COC PAGE 1 of 2
COC ID# 1391786

Project # 5077034

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2																
3																
4																
5																
6										1		1				
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Mundell & Assoc

COC PAGE 2 of 2
COC ID# 1391775

Project # 5077034

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3									1		1				
2	3															Trip Blank
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

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March 14, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077099

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077099

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Microbiology Certification #: 943
Ohio Drinking Water Certification #: 1030

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077099

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077099001	MMW-C-01	Water	03/05/13 12:39	03/06/13 12:06
5077099002	MMW-C-02S	Water	03/05/13 11:51	03/06/13 12:06
5077099003	MMW-P-09D	Water	03/05/13 11:23	03/06/13 12:06
5077099004	MMW-P-09S	Water	03/05/13 10:57	03/06/13 12:06
5077099005	MMW-4D	Water	03/05/13 10:25	03/06/13 12:06
5077099006	MMW-6D	Water	03/05/13 09:59	03/06/13 12:06
5077099007	Trip Blank	Water	03/05/13 08:00	03/06/13 12:06
5077099008	Dup 01	Water	03/05/13 08:00	03/06/13 12:06

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077099

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077099001	MMW-C-01	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90.02	TPD	1
		EPA 353.2	ILP	2
5077099002	MMW-C-02S	EPA 8260	ALA	18
5077099003	MMW-P-09D	EPA 8260	ALA	18
5077099004	MMW-P-09S	EPA 8260	ALA	18
5077099005	MMW-4D	EPA 8260	ALA	18
5077099006	MMW-6D	EPA 8260	ALA	18
5077099007	Trip Blank	EPA 8260	ALA	18
5077099008	Dup 01	EPA 8260	ALA	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: MMW-C-01 **Lab ID: 5077099001** Collected: 03/05/13 12:39 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/13/13 22:44	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/13/13 22:44	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/13/13 22:44	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/13/13 22:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/13/13 22:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/13/13 22:44	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/13/13 22:44	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/13/13 22:44	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/13/13 22:44	91-20-3	
Tetrachloroethene	17.5	ug/L	5.0	1		03/13/13 22:44	127-18-4	
Toluene	ND	ug/L	5.0	1		03/13/13 22:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/13/13 22:44	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/13/13 22:44	79-01-6	
Vinyl chloride	10.1	ug/L	2.0	1		03/13/13 22:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/13/13 22:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		03/13/13 22:44	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		03/13/13 22:44	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/13/13 22:44	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.1	mg/L	0.30	1		03/09/13 03:14	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	114	mg/L	25.0	5		03/11/13 13:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	4.5	mg/L	0.10	1		03/07/13 07:56		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/07/13 07:56		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: MMW-C-02S **Lab ID: 5077099002** Collected: 03/05/13 11:51 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/13/13 23:22	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/13/13 23:22	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/13/13 23:22	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/13/13 23:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/13/13 23:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/13/13 23:22	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/13/13 23:22	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/13/13 23:22	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/13/13 23:22	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/13/13 23:22	127-18-4	
Toluene	ND	ug/L	5.0	1		03/13/13 23:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/13/13 23:22	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/13/13 23:22	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/13/13 23:22	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/13/13 23:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		03/13/13 23:22	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		03/13/13 23:22	460-00-4	
Toluene-d8 (S)	92	%.	81-114	1		03/13/13 23:22	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: MMW-P-09D **Lab ID: 5077099003** Collected: 03/05/13 11:23 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/14/13 01:16	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/14/13 01:16	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/14/13 01:16	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/14/13 01:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 01:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 01:16	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/14/13 01:16	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/14/13 01:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/14/13 01:16	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/14/13 01:16	127-18-4	
Toluene	ND	ug/L	5.0	1		03/14/13 01:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/14/13 01:16	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/14/13 01:16	79-01-6	
Vinyl chloride	96.4	ug/L	2.0	1		03/14/13 01:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/14/13 01:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/14/13 01:16	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		03/14/13 01:16	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/14/13 01:16	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: MMW-P-09S **Lab ID: 5077099004** Collected: 03/05/13 10:57 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/14/13 04:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/14/13 04:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/14/13 04:25	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/14/13 04:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 04:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 04:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/14/13 04:25	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/14/13 04:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/14/13 04:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/14/13 04:25	127-18-4	
Toluene	ND	ug/L	5.0	1		03/14/13 04:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/14/13 04:25	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/14/13 04:25	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/14/13 04:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/14/13 04:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/14/13 04:25	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		03/14/13 04:25	460-00-4	
Toluene-d8 (S)	92	%.	81-114	1		03/14/13 04:25	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: MMW-4D Lab ID: 5077099005 Collected: 03/05/13 10:25 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/14/13 05:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/14/13 05:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/14/13 05:03	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/14/13 05:03	75-35-4	
cis-1,2-Dichloroethene	**396**	ug/L	50.0	10		03/14/13 05:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 05:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/14/13 05:03	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/14/13 05:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/14/13 05:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/14/13 05:03	127-18-4	
Toluene	ND	ug/L	5.0	1		03/14/13 05:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/14/13 05:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/14/13 05:03	79-01-6	
Vinyl chloride	**202**	ug/L	2.0	1		03/14/13 05:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/14/13 05:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		03/14/13 05:03	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		03/14/13 05:03	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		03/14/13 05:03	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: MMW-6D Lab ID: 5077099006 Collected: 03/05/13 09:59 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/14/13 06:19	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/14/13 06:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/14/13 06:19	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/14/13 06:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 06:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 06:19	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/14/13 06:19	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/14/13 06:19	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/14/13 06:19	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/14/13 06:19	127-18-4	
Toluene	ND	ug/L	5.0	1		03/14/13 06:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/14/13 06:19	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/14/13 06:19	79-01-6	
Vinyl chloride	61.1	ug/L	2.0	1		03/14/13 06:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/14/13 06:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		03/14/13 06:19	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		03/14/13 06:19	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/14/13 06:19	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: Trip Blank **Lab ID: 5077099007** Collected: 03/05/13 08:00 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/14/13 06:57	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/14/13 06:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/14/13 06:57	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/14/13 06:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 06:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 06:57	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/14/13 06:57	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/14/13 06:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/14/13 06:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/14/13 06:57	127-18-4	
Toluene	ND	ug/L	5.0	1		03/14/13 06:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/14/13 06:57	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/14/13 06:57	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/14/13 06:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/14/13 06:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/14/13 06:57	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		03/14/13 06:57	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/14/13 06:57	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077099

Sample: Dup 01 Lab ID: 5077099008 Collected: 03/05/13 08:00 Received: 03/06/13 12:06 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/14/13 07:35	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/14/13 07:35	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/14/13 07:35	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/14/13 07:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 07:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/14/13 07:35	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/14/13 07:35	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/14/13 07:35	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/14/13 07:35	91-20-3	
Tetrachloroethene	17.7	ug/L	5.0	1		03/14/13 07:35	127-18-4	
Toluene	ND	ug/L	5.0	1		03/14/13 07:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/14/13 07:35	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/14/13 07:35	79-01-6	
Vinyl chloride	10.4	ug/L	2.0	1		03/14/13 07:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/14/13 07:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		03/14/13 07:35	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		03/14/13 07:35	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		03/14/13 07:35	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077099

QC Batch: MSV/51235 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077099001, 5077099002, 5077099003

METHOD BLANK: 884146 Matrix: Water
Associated Lab Samples: 5077099001, 5077099002, 5077099003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/13/13 15:10	
1,1-Dichloroethene	ug/L	ND	5.0	03/13/13 15:10	
Benzene	ug/L	ND	5.0	03/13/13 15:10	
Carbon tetrachloride	ug/L	ND	5.0	03/13/13 15:10	
Chloroform	ug/L	ND	5.0	03/13/13 15:10	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/13/13 15:10	
Ethylbenzene	ug/L	ND	5.0	03/13/13 15:10	
Methylene Chloride	ug/L	ND	5.0	03/13/13 15:10	
Naphthalene	ug/L	ND	5.0	03/13/13 15:10	
Tetrachloroethene	ug/L	ND	5.0	03/13/13 15:10	
Toluene	ug/L	ND	5.0	03/13/13 15:10	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/13/13 15:10	
Trichloroethene	ug/L	ND	5.0	03/13/13 15:10	
Vinyl chloride	ug/L	ND	2.0	03/13/13 15:10	
Xylene (Total)	ug/L	ND	10.0	03/13/13 15:10	
4-Bromofluorobenzene (S)	%.	104	72-125	03/13/13 15:10	
Dibromofluoromethane (S)	%.	97	83-123	03/13/13 15:10	
Toluene-d8 (S)	%.	92	81-114	03/13/13 15:10	

LABORATORY CONTROL SAMPLE: 884147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.8	104	69-126	
1,1-Dichloroethene	ug/L	50	49.0	98	75-145	
Benzene	ug/L	50	49.6	99	76-123	
Carbon tetrachloride	ug/L	50	53.6	107	65-125	
Chloroform	ug/L	50	55.1	110	73-122	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	79-129	
Ethylbenzene	ug/L	50	47.3	95	75-120	
Methylene Chloride	ug/L	50	43.3	87	61-138	
Naphthalene	ug/L	50	60.3	121	62-130	
Tetrachloroethene	ug/L	50	49.3	99	57-125	
Toluene	ug/L	50	50.1	100	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.3	105	71-145	
Trichloroethene	ug/L	50	57.1	114	77-122	
Vinyl chloride	ug/L	50	52.2	104	61-146	
Xylene (Total)	ug/L	150	147	98	72-126	
4-Bromofluorobenzene (S)	%.			101	72-125	
Dibromofluoromethane (S)	%.			103	83-123	
Toluene-d8 (S)	%.			101	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077099

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 884148 884149

Parameter	Units	5077099002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	63.1	59.9	126	120	37-136	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	56.7	54.1	113	108	54-152	5	20	
Benzene	ug/L	ND	50	50	59.1	57.7	118	115	52-134	3	20	
Carbon tetrachloride	ug/L	ND	50	50	64.3	62.2	129	124	26-136	3	20	
Chloroform	ug/L	ND	50	50	68.4	65.9	137	132	50-134	4	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	59.1	57.2	118	114	48-145	3	20	
Ethylbenzene	ug/L	ND	50	50	57.3	55.3	115	111	29-132	3	20	
Methylene Chloride	ug/L	ND	50	50	56.2	54.4	112	109	47-141	3	20	
Naphthalene	ug/L	ND	50	50	64.7	71.6	129	143	40-124	10	20	
Tetrachloroethene	ug/L	ND	50	50	58.6	54.7	117	109	30-124	7	20	
Toluene	ug/L	ND	50	50	59.8	55.4	120	111	42-130	8	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	61.6	59.3	123	119	48-144	4	20	
Trichloroethene	ug/L	ND	50	50	69.5	64.5	139	129	44-130	8	20	
Vinyl chloride	ug/L	ND	50	50	55.7	52.9	111	106	45-159	5	20	
Xylene (Total)	ug/L	ND	150	150	171	168	114	112	29-131	2	20	
4-Bromofluorobenzene (S)	%.						100	103	72-125		20	
Dibromofluoromethane (S)	%.						104	106	83-123		20	1d
Toluene-d8 (S)	%.						101	98	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077099

QC Batch: MSV/51238 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077099004, 5077099005, 5077099006, 5077099007, 5077099008

METHOD BLANK: 884181 Matrix: Water
Associated Lab Samples: 5077099004, 5077099005, 5077099006, 5077099007, 5077099008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/14/13 03:47	
1,1-Dichloroethene	ug/L	ND	5.0	03/14/13 03:47	
Benzene	ug/L	ND	5.0	03/14/13 03:47	
Carbon tetrachloride	ug/L	ND	5.0	03/14/13 03:47	
Chloroform	ug/L	ND	5.0	03/14/13 03:47	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/14/13 03:47	
Ethylbenzene	ug/L	ND	5.0	03/14/13 03:47	
Methylene Chloride	ug/L	ND	5.0	03/14/13 03:47	
Naphthalene	ug/L	ND	5.0	03/14/13 03:47	
Tetrachloroethene	ug/L	ND	5.0	03/14/13 03:47	
Toluene	ug/L	ND	5.0	03/14/13 03:47	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/14/13 03:47	
Trichloroethene	ug/L	ND	5.0	03/14/13 03:47	
Vinyl chloride	ug/L	ND	2.0	03/14/13 03:47	
Xylene (Total)	ug/L	ND	10.0	03/14/13 03:47	
4-Bromofluorobenzene (S)	%.	107	72-125	03/14/13 03:47	
Dibromofluoromethane (S)	%.	100	83-123	03/14/13 03:47	
Toluene-d8 (S)	%.	94	81-114	03/14/13 03:47	

LABORATORY CONTROL SAMPLE: 884182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	69-126	
1,1-Dichloroethene	ug/L	50	49.5	99	75-145	
Benzene	ug/L	50	48.8	98	76-123	
Carbon tetrachloride	ug/L	50	54.0	108	65-125	
Chloroform	ug/L	50	55.7	111	73-122	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	79-129	
Ethylbenzene	ug/L	50	46.4	93	75-120	
Methylene Chloride	ug/L	50	45.2	90	61-138	
Naphthalene	ug/L	50	57.9	116	62-130	
Tetrachloroethene	ug/L	50	46.9	94	57-125	
Toluene	ug/L	50	48.9	98	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	71-145	
Trichloroethene	ug/L	50	55.8	112	77-122	
Vinyl chloride	ug/L	50	52.0	104	61-146	
Xylene (Total)	ug/L	150	141	94	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			105	83-123	
Toluene-d8 (S)	%.			100	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077099

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 884183 884184

Parameter	Units	5077247006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	61.8	61.5	124	123	37-136	0	20	
1,1-Dichloroethene	ug/L	ND	50	50	56.2	57.9	112	116	54-152	3	20	
Benzene	ug/L	ND	50	50	55.8	55.8	112	112	52-134	0	20	
Carbon tetrachloride	ug/L	ND	50	50	62.5	63.1	125	126	26-136	1	20	
Chloroform	ug/L	ND	50	50	64.5	65.1	129	130	50-134	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	55.2	55.7	110	111	48-145	1	20	
Ethylbenzene	ug/L	ND	50	50	52.1	53.2	104	106	29-132	2	20	
Methylene Chloride	ug/L	ND	50	50	53.1	53.0	106	106	47-141	0	20	
Naphthalene	ug/L	ND	50	50	55.2	55.2	110	110	40-124	0	20	
Tetrachloroethene	ug/L	ND	50	50	55.5	56.8	111	114	30-124	2	20	
Toluene	ug/L	ND	50	50	54.8	55.9	110	112	42-130	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	58.6	62.3	117	125	48-144	6	20	
Trichloroethene	ug/L	ND	50	50	63.9	63.2	128	126	44-130	1	20	
Vinyl chloride	ug/L	ND	50	50	60.5	61.0	121	122	45-159	1	20	
Xylene (Total)	ug/L	ND	150	150	153	157	102	104	29-131	3	20	
4-Bromofluorobenzene (S)	%.						97	96	72-125		20	
Dibromofluoromethane (S)	%.						104	103	83-123		20	
Toluene-d8 (S)	%.						101	100	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077099

QC Batch: OHIO/6089
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C TOC
Associated Lab Samples: 5077099001

METHOD BLANK: 881328
Matrix: Water
Associated Lab Samples: 5077099001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/08/13 16:48	N2

LABORATORY CONTROL SAMPLE: 881329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881331 881332

Parameter	Units	5077084002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	28.4	4	4	32.0	33.2	90	118	75-125	3	20	N2

SAMPLE DUPLICATE: 881330

Parameter	Units	5077084002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	28.4	28.9	2	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077099

QC Batch: WET/11255
QC Batch Method: ASTM D516-90.02
Analysis Method: ASTM D516-90.02
Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5077099001

METHOD BLANK: 882563
Matrix: Water
Associated Lab Samples: 5077099001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	03/11/13 13:05	

LABORATORY CONTROL SAMPLE: 882564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 882565 882566

Parameter	Units	5077108001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	195	500	500	740	734	109	108	90-110	1	20	

MATRIX SPIKE SAMPLE: 882567

Parameter	Units	5077215006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	181	500	701	104	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077099

QC Batch: WETA/9306
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5077099001

METHOD BLANK: 880870
Matrix: Water
Associated Lab Samples: 5077099001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/07/13 08:21	
Nitrogen, Nitrite	mg/L	ND	0.10	03/07/13 08:21	

LABORATORY CONTROL SAMPLE: 880871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.9	97	90-110	
Nitrogen, Nitrite	mg/L	2	1.8	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 880872 880873

Parameter	Units	5077084002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.9	1.9	94	90	90-110	4	20	
Nitrogen, Nitrite	mg/L	ND	2	2	1.8	1.8	90	89	90-110	0	20	M0

MATRIX SPIKE SAMPLE: 880874

Parameter	Units	5077108003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.11	2	1.8	85	90-110	M0
Nitrogen, Nitrite	mg/L	ND	2	1.7	83	90-110	M0

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077099

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Several compounds are outside of acceptance limits for percent recovery. aa 3/14/13
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077099

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077099001	MMW-C-01	EPA 8260	MSV/51235		
5077099002	MMW-C-02S	EPA 8260	MSV/51235		
5077099003	MMW-P-09D	EPA 8260	MSV/51235		
5077099004	MMW-P-09S	EPA 8260	MSV/51238		
5077099005	MMW-4D	EPA 8260	MSV/51238		
5077099006	MMW-6D	EPA 8260	MSV/51238		
5077099007	Trip Blank	EPA 8260	MSV/51238		
5077099008	Dup 01	EPA 8260	MSV/51238		
5077099001	MMW-C-01	SM 5310C	OHIO/6089		
5077099001	MMW-C-01	ASTM D516-90,02	WET/11255		
5077099001	MMW-C-01	EPA 353.2	WETA/9306		

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March 20, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077148

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077148

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Microbiology Certification #: 943
Ohio Drinking Water Certification #: 1030

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077148

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077148001	MMW-P-11D	Water	03/06/13 14:43	03/07/13 11:05
5077148002	MMW-P-11S	Water	03/06/13 12:59	03/07/13 11:05
5077148003	MMW-C-16D	Water	03/06/13 11:59	03/07/13 11:05
5077148004	MMW-C-16S	Water	03/06/13 10:42	03/07/13 11:05
5077148005	MMW-15S	Water	03/06/13 09:40	03/07/13 11:05
5077148006	MMW-15D	Water	03/06/13 08:38	03/07/13 11:05
5077148007	Trip Blank	Water	03/06/13 08:00	03/07/13 11:05

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077148

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077148001	MMW-P-11D	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077148002	MMW-P-11S	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077148003	MMW-C-16D	EPA 8260	ALA, RSW	18
5077148004	MMW-C-16S	EPA 8260	ALA	18
5077148005	MMW-15S	EPA 8260	ALA	18
5077148006	MMW-15D	EPA 8260	ALA	18
5077148007	Trip Blank	EPA 8260	ALA	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077148

Sample: MMW-P-11D Lab ID: 5077148001 Collected: 03/06/13 14:43 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/15/13 06:53	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/15/13 06:53	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/15/13 06:53	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/15/13 06:53	75-35-4	
cis-1,2-Dichloroethene	10.6	ug/L	5.0	1		03/15/13 06:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 06:53	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/15/13 06:53	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/15/13 06:53	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/15/13 06:53	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/15/13 06:53	127-18-4	
Toluene	ND	ug/L	5.0	1		03/15/13 06:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/15/13 06:53	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/15/13 06:53	79-01-6	
Vinyl chloride	201	ug/L	2.0	1		03/15/13 06:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/15/13 06:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	113	%.	83-123	1		03/15/13 06:53	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		03/15/13 06:53	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/15/13 06:53	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.0	mg/L	0.30	1		03/14/13 06:36	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	165	mg/L	50.0	10		03/11/13 13:26	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/08/13 13:04		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/08/13 13:04		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077148

Sample: MMW-P-11S Lab ID: 5077148002 Collected: 03/06/13 12:59 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/15/13 07:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/15/13 07:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/15/13 07:31	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/15/13 07:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 07:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 07:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/15/13 07:31	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/15/13 07:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/15/13 07:31	91-20-3	
Tetrachloroethene	703	ug/L	50.0	10		03/15/13 08:09	127-18-4	
Toluene	ND	ug/L	5.0	1		03/15/13 07:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/15/13 07:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/15/13 07:31	79-01-6	
Vinyl chloride	18.8	ug/L	2.0	1		03/15/13 07:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/15/13 07:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		03/15/13 07:31	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		03/15/13 07:31	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		03/15/13 07:31	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.0	mg/L	0.30	1		03/14/13 07:08	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	183	mg/L	50.0	10		03/11/13 13:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.32	mg/L	0.10	1		03/08/13 13:03		1d
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/08/13 13:03		1d

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077148

Sample: MMW-C-16D **Lab ID: 5077148003** Collected: 03/06/13 11:59 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/15/13 08:47	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/15/13 08:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/15/13 08:47	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/15/13 08:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 08:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 08:47	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/15/13 08:47	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/15/13 08:47	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/15/13 08:47	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/15/13 08:47	127-18-4	
Toluene	ND	ug/L	5.0	1		03/15/13 08:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/15/13 08:47	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/15/13 08:47	79-01-6	
Vinyl chloride	316	ug/L	20.0	10		03/16/13 12:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/15/13 08:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	83-123	1		03/15/13 08:47	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		03/15/13 08:47	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/15/13 08:47	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077148

Sample: MMW-C-16S **Lab ID: 5077148004** Collected: 03/06/13 10:42 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/15/13 09:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/15/13 09:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/15/13 09:25	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/15/13 09:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 09:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 09:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/15/13 09:25	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/15/13 09:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/15/13 09:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/15/13 09:25	127-18-4	
Toluene	ND	ug/L	5.0	1		03/15/13 09:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/15/13 09:25	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/15/13 09:25	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/15/13 09:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/15/13 09:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%.	83-123	1		03/15/13 09:25	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		03/15/13 09:25	460-00-4	
Toluene-d8 (S)	91	%.	81-114	1		03/15/13 09:25	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077148

Sample: MMW-15S Lab ID: 5077148005 Collected: 03/06/13 09:40 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/15/13 10:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/15/13 10:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/15/13 10:03	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/15/13 10:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 10:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 10:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/15/13 10:03	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/15/13 10:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/15/13 10:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/15/13 10:03	127-18-4	
Toluene	ND	ug/L	5.0	1		03/15/13 10:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/15/13 10:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/15/13 10:03	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/15/13 10:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/15/13 10:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	83-123	1		03/15/13 10:03	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		03/15/13 10:03	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/15/13 10:03	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077148

Sample: MMW-15D **Lab ID: 5077148006** Collected: 03/06/13 08:38 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/15/13 11:57	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/15/13 11:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/15/13 11:57	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/15/13 11:57	75-35-4	
cis-1,2-Dichloroethene	10	ug/L	5.0	1		03/15/13 11:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 11:57	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/15/13 11:57	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/15/13 11:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/15/13 11:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/15/13 11:57	127-18-4	
Toluene	ND	ug/L	5.0	1		03/15/13 11:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/15/13 11:57	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/15/13 11:57	79-01-6	
Vinyl chloride	2.7	ug/L	2.0	1		03/15/13 11:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/15/13 11:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	83-123	1		03/15/13 11:57	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		03/15/13 11:57	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		03/15/13 11:57	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077148

Sample: Trip Blank **Lab ID: 5077148007** Collected: 03/06/13 08:00 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/15/13 12:35	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/15/13 12:35	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/15/13 12:35	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/15/13 12:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 12:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/15/13 12:35	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/15/13 12:35	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/15/13 12:35	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/15/13 12:35	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/15/13 12:35	127-18-4	
Toluene	ND	ug/L	5.0	1		03/15/13 12:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/15/13 12:35	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/15/13 12:35	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/15/13 12:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/15/13 12:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		03/15/13 12:35	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		03/15/13 12:35	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		03/15/13 12:35	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077148

QC Batch: MSV/51276 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077148001, 5077148002, 5077148003, 5077148004, 5077148005, 5077148006, 5077148007

METHOD BLANK: 884951 Matrix: Water
Associated Lab Samples: 5077148001, 5077148002, 5077148003, 5077148004, 5077148005, 5077148006, 5077148007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/15/13 04:22	
1,1-Dichloroethene	ug/L	ND	5.0	03/15/13 04:22	
Benzene	ug/L	ND	5.0	03/15/13 04:22	
Carbon tetrachloride	ug/L	ND	5.0	03/15/13 04:22	
Chloroform	ug/L	ND	5.0	03/15/13 04:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/15/13 04:22	
Ethylbenzene	ug/L	ND	5.0	03/15/13 04:22	
Methylene Chloride	ug/L	ND	5.0	03/15/13 04:22	
Naphthalene	ug/L	ND	5.0	03/15/13 04:22	
Tetrachloroethene	ug/L	ND	5.0	03/15/13 04:22	
Toluene	ug/L	ND	5.0	03/15/13 04:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/15/13 04:22	
Trichloroethene	ug/L	ND	5.0	03/15/13 04:22	
Vinyl chloride	ug/L	ND	2.0	03/15/13 04:22	
Xylene (Total)	ug/L	ND	10.0	03/15/13 04:22	
4-Bromofluorobenzene (S)	%.	104	72-125	03/15/13 04:22	
Dibromofluoromethane (S)	%.	111	83-123	03/15/13 04:22	
Toluene-d8 (S)	%.	94	81-114	03/15/13 04:22	

LABORATORY CONTROL SAMPLE: 884952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.5	93	69-126	
1,1-Dichloroethene	ug/L	50	46.1	92	75-145	
Benzene	ug/L	50	44.4	89	76-123	
Carbon tetrachloride	ug/L	50	49.1	98	65-125	
Chloroform	ug/L	50	49.5	99	73-122	
cis-1,2-Dichloroethene	ug/L	50	43.4	87	79-129	
Ethylbenzene	ug/L	50	44.2	88	75-120	
Methylene Chloride	ug/L	50	47.4	95	61-138	
Naphthalene	ug/L	50	54.1	108	62-130	
Tetrachloroethene	ug/L	50	47.1	94	57-125	
Toluene	ug/L	50	43.7	87	72-124	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	71-145	
Trichloroethene	ug/L	50	52.3	105	77-122	
Vinyl chloride	ug/L	50	59.3	119	61-146	
Xylene (Total)	ug/L	150	129	86	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			97	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077148

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 884953 884954

Parameter	Units	5077148005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	55.5	50.0	111	100	37-136	10	20	
1,1-Dichloroethene	ug/L	ND	50	50	53.4	47.5	107	95	54-152	12	20	
Benzene	ug/L	ND	50	50	49.9	48.6	100	97	52-134	3	20	
Carbon tetrachloride	ug/L	ND	50	50	58.4	52.0	117	104	26-136	12	20	
Chloroform	ug/L	ND	50	50	57.5	53.4	115	107	50-134	7	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.5	50.4	101	95	48-145	6	20	
Ethylbenzene	ug/L	ND	50	50	48.9	47.2	98	94	29-132	3	20	
Methylene Chloride	ug/L	ND	50	50	57.9	54.1	116	108	47-141	7	20	
Naphthalene	ug/L	ND	50	50	59.4	59.4	119	119	40-124	0	20	
Tetrachloroethene	ug/L	ND	50	50	52.1	51.0	104	102	30-124	2	20	
Toluene	ug/L	ND	50	50	46.9	47.0	94	94	42-130	0	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.2	49.2	108	98	48-144	10	20	
Trichloroethene	ug/L	ND	50	50	58.4	56.3	117	113	44-130	4	20	
Vinyl chloride	ug/L	ND	50	50	68.8	64.0	138	128	45-159	7	20	
Xylene (Total)	ug/L	ND	150	150	141	140	94	93	29-131	1	20	
4-Bromofluorobenzene (S)	%.						99	99	72-125		20	
Dibromofluoromethane (S)	%.						102	98	83-123		20	
Toluene-d8 (S)	%.						95	98	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077148

QC Batch: OHIO/6107 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5077148001, 5077148002

METHOD BLANK: 883653 Matrix: Water
Associated Lab Samples: 5077148001, 5077148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/13/13 19:10	N2

LABORATORY CONTROL SAMPLE: 883654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	94	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 883656 883657

Parameter	Units	5077231003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.6	4	4	6.2	6.5	90	98	75-125	5	20	N2

SAMPLE DUPLICATE: 883655

Parameter	Units	5077231003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.6	2.8	8	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077148

QC Batch: WET/11255 — Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 — Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5077148001, 5077148002

METHOD BLANK: 882563 — Matrix: Water
Associated Lab Samples: 5077148001, 5077148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	03/11/13 13:05	

LABORATORY CONTROL SAMPLE: 882564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 882565 882566

Parameter	Units	5077108001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	195	500	500	740	734	109	108	90-110	1	20	

MATRIX SPIKE SAMPLE: 882567

Parameter	Units	5077215006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	181	500	701	104	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077148

QC Batch: WETA/9317 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5077148001, 5077148002

METHOD BLANK: 881729 Matrix: Water
Associated Lab Samples: 5077148001, 5077148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/08/13 13:01	
Nitrogen, Nitrite	mg/L	ND	0.10	03/08/13 13:01	

LABORATORY CONTROL SAMPLE: 881730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	99	90-110	
Nitrogen, Nitrite	mg/L	2	1.8	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 881731 881732

Parameter	Units	5077183002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	2.0	2.0	97	97	90-110	0	20	
Nitrogen, Nitrite	mg/L	ND	2	2	1.7	1.7	87	87	90-110	0	20	M3

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077148

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Sample analysis completed 4 minutes outside of recommended hold period.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077148

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077148001	MMW-P-11D	EPA 8260	MSV/51276		
5077148002	MMW-P-11S	EPA 8260	MSV/51276		
5077148003	MMW-C-16D	EPA 8260	MSV/51276		
5077148004	MMW-C-16S	EPA 8260	MSV/51276		
5077148005	MMW-15S	EPA 8260	MSV/51276		
5077148006	MMW-15D	EPA 8260	MSV/51276		
5077148007	Trip Blank	EPA 8260	MSV/51276		
5077148001	MMW-P-11D	SM 5310C	OHIO/6107		
5077148002	MMW-P-11S	SM 5310C	OHIO/6107		
5077148001	MMW-P-11D	ASTM D516-90,02	WET/11255		
5077148002	MMW-P-11S	ASTM D516-90,02	WET/11255		
5077148001	MMW-P-11D	EPA 353.2	WETA/9317		
5077148002	MMW-P-11S	EPA 353.2	WETA/9317		

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March 25, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077282

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077282

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Microbiology Certification #: 943
Ohio Drinking Water Certification #: 1030

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077282001	MMW-C-17D	Water	03/07/13 09:00	03/11/13 08:44
5077282002	MMW-P-14S	Water	03/07/13 09:59	03/11/13 08:44
5077282003	MMW-P-14D	Water	03/07/13 10:55	03/11/13 08:44
5077282004	MMW-P-13S	Water	03/07/13 12:05	03/11/13 08:44
5077282005	MMW-P-13D	Water	03/07/13 12:56	03/11/13 08:44
5077282006	MMW-C-02D	Water	03/07/13 13:45	03/11/13 08:44
5077282007	MMW-P-12S	Water	03/09/13 10:23	03/11/13 08:44
5077282008	MMW-P-12D	Water	03/09/13 11:25	03/11/13 08:44
5077282009	MMW-P-04	Water	03/09/13 12:00	03/11/13 08:44
5077282010	Dup 2	Water	03/09/13 08:00	03/11/13 08:44
5077282011	EQ Blank	Water	03/09/13 14:10	03/11/13 08:44
5077282012	Trip Blank	Water	03/09/13 08:00	03/11/13 08:44

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077282

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077282001	MMW-C-17D	EPA 8260	RSW	18
5077282002	MMW-P-14S	EPA 8260	RSW	18
5077282003	MMW-P-14D	EPA 8260	RSW	18
5077282004	MMW-P-13S	EPA 8260	RSW	18
5077282005	MMW-P-13D	EPA 8260	RSW	18
5077282006	MMW-C-02D	EPA 8260	RSW	18
5077282007	MMW-P-12S	EPA 8260	RSW	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077282008	MMW-P-12D	EPA 8260	RSW	18
		SM 5310C	GR1	1
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077282009	MMW-P-04	EPA 8260	RSW	18
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077282010	Dup 2	EPA 8260	RSW	18
		ASTM D516-90,02	TPD	1
		EPA 353.2	ILP	2
5077282011	EQ Blank	EPA 8260	RSW	18
5077282012	Trip Blank	EPA 8260	RSW	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-C-17D Lab ID: 5077282001 Collected: 03/07/13 09:00 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/18/13 17:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/18/13 17:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/18/13 17:31	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/18/13 17:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 17:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 17:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/18/13 17:31	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/18/13 17:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/18/13 17:31	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/18/13 17:31	127-18-4	
Toluene	ND	ug/L	5.0	1		03/18/13 17:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/18/13 17:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/18/13 17:31	79-01-6	
Vinyl chloride	2.1	ug/L	2.0	1		03/18/13 17:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/18/13 17:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		03/18/13 17:31	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		03/18/13 17:31	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		03/18/13 17:31	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-P-14S **Lab ID: 5077282002** Collected: 03/07/13 09:59 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/16/13 09:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 09:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/16/13 09:48	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 09:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 09:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 09:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 09:48	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 09:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/16/13 09:48	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/16/13 09:48	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 09:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 09:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 09:48	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/16/13 09:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 09:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		03/16/13 09:48	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		03/16/13 09:48	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		03/16/13 09:48	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-P-14D **Lab ID: 5077282003** Collected: 03/07/13 10:55 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/18/13 18:04	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/18/13 18:04	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/18/13 18:04	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/18/13 18:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 18:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 18:04	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/18/13 18:04	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/18/13 18:04	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/18/13 18:04	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/18/13 18:04	127-18-4	
Toluene	ND	ug/L	5.0	1		03/18/13 18:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/18/13 18:04	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/18/13 18:04	79-01-6	
Vinyl chloride	32.3	ug/L	2.0	1		03/18/13 18:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/18/13 18:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/18/13 18:04	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		03/18/13 18:04	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		03/18/13 18:04	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-P-13S **Lab ID: 5077282004** Collected: 03/07/13 12:05 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/16/13 10:55	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 10:55	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/16/13 10:55	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 10:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 10:55	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 10:55	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 10:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/16/13 10:55	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/16/13 10:55	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 10:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 10:55	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 10:55	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/16/13 10:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 10:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	89	%.	83-123	1		03/16/13 10:55	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		03/16/13 10:55	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		03/16/13 10:55	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-P-13D **Lab ID: 5077282005** Collected: 03/07/13 12:56 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/18/13 18:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/18/13 18:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/18/13 18:37	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/18/13 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 18:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/18/13 18:37	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/18/13 18:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/18/13 18:37	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/18/13 18:37	127-18-4	
Toluene	ND	ug/L	5.0	1		03/18/13 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/18/13 18:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/18/13 18:37	79-01-6	
Vinyl chloride	140	ug/L	2.0	1		03/18/13 18:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/18/13 18:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		03/18/13 18:37	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		03/18/13 18:37	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		03/18/13 18:37	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-C-02D **Lab ID: 5077282006** Collected: 03/07/13 13:45 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/18/13 19:11	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/18/13 19:11	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/18/13 19:11	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/18/13 19:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 19:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/13 19:11	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/18/13 19:11	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/18/13 19:11	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/18/13 19:11	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/18/13 19:11	127-18-4	
Toluene	ND	ug/L	5.0	1		03/18/13 19:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/18/13 19:11	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/18/13 19:11	79-01-6	
Vinyl chloride	162	ug/L	2.0	1		03/18/13 19:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/18/13 19:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/18/13 19:11	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		03/18/13 19:11	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/18/13 19:11	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-P-12S Lab ID: 5077282007 Collected: 03/09/13 10:23 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 15:24	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 15:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 15:24	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 15:24	75-35-4	
cis-1,2-Dichloroethene	505	ug/L	50.0	10		03/20/13 16:11	156-59-2	
trans-1,2-Dichloroethene	18.0	ug/L	5.0	1		03/19/13 15:24	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 15:24	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 15:24	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 15:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 15:24	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 15:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 15:24	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 15:24	79-01-6	
Vinyl chloride	63.0	ug/L	2.0	1		03/19/13 15:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 15:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		03/19/13 15:24	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		03/19/13 15:24	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		03/19/13 15:24	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.0	mg/L	0.30	1		03/14/13 21:05	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	148	mg/L	25.0	5		03/20/13 13:10	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/11/13 08:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/11/13 08:54		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-P-12D Lab ID: 5077282008 Collected: 03/09/13 11:25 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 15:56	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 15:56	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 15:56	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 15:56	75-35-4	
cis-1,2-Dichloroethene	619	ug/L	50.0	10		03/20/13 16:45	156-59-2	
trans-1,2-Dichloroethene	20.6	ug/L	5.0	1		03/19/13 15:56	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 15:56	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 15:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 15:56	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 15:56	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 15:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 15:56	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 15:56	79-01-6	
Vinyl chloride	71.4	ug/L	2.0	1		03/19/13 15:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 15:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		03/19/13 15:56	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		03/19/13 15:56	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		03/19/13 15:56	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.1	mg/L	0.30	1		03/14/13 21:29	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	181	mg/L	25.0	5		03/20/13 13:11	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/11/13 08:57		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/11/13 08:57		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: MMW-P-04 **Lab ID: 5077282009** Collected: 03/09/13 12:00 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/16/13 06:12	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 06:12	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/16/13 06:12	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 06:12	75-35-4	
cis-1,2-Dichloroethene	50.1	ug/L	5.0	1		03/16/13 06:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 06:12	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 06:12	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 06:12	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/16/13 06:12	91-20-3	
Tetrachloroethene	28.2	ug/L	5.0	1		03/16/13 06:12	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 06:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 06:12	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 06:12	79-01-6	
Vinyl chloride	6.1	ug/L	2.0	1		03/16/13 06:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 06:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		03/16/13 06:12	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		03/16/13 06:12	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		03/16/13 06:12	2037-26-5	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	5.1	mg/L	5.0	1		03/20/13 13:12	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/11/13 08:58		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/11/13 08:58		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: Dup 2 Lab ID: 5077282010 Collected: 03/09/13 08:00 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/16/13 06:45	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 06:45	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/16/13 06:45	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 06:45	75-35-4	
cis-1,2-Dichloroethene	574	ug/L	50.0	10		03/16/13 07:18	156-59-2	
trans-1,2-Dichloroethene	17.6	ug/L	5.0	1		03/16/13 06:45	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 06:45	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 06:45	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/16/13 06:45	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/16/13 06:45	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 06:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 06:45	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 06:45	79-01-6	
Vinyl chloride	55.9	ug/L	2.0	1		03/16/13 06:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 06:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		03/16/13 06:45	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		03/16/13 06:45	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		03/16/13 06:45	2037-26-5	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90.02							
Sulfate	145	mg/L	25.0	5		03/20/13 13:21	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/11/13 08:53		
Nitrogen, Nitrite	ND	mg/L	0.10	1		03/11/13 08:53		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: EQ Blank Lab ID: 5077282011 Collected: 03/09/13 14:10 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/16/13 07:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 07:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/16/13 07:52	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 07:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 07:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 07:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 07:52	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 07:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/16/13 07:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/16/13 07:52	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 07:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 07:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 07:52	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/16/13 07:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 07:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		03/16/13 07:52	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		03/16/13 07:52	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		03/16/13 07:52	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077282

Sample: Trip Blank Lab ID: 5077282012 Collected: 03/09/13 08:00 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/16/13 08:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 08:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/16/13 08:25	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 08:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 08:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 08:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 08:25	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 08:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/16/13 08:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/16/13 08:25	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 08:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 08:25	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 08:25	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/16/13 08:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 08:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		03/16/13 08:25	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		03/16/13 08:25	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		03/16/13 08:25	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

QC Batch: MSV/51303 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077282002, 5077282004

METHOD BLANK: 885588 Matrix: Water
Associated Lab Samples: 5077282002, 5077282004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/16/13 05:22	
1,1-Dichloroethene	ug/L	ND	5.0	03/16/13 05:22	
Benzene	ug/L	ND	5.0	03/16/13 05:22	
Carbon tetrachloride	ug/L	ND	5.0	03/16/13 05:22	
Chloroform	ug/L	ND	5.0	03/16/13 05:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 05:22	
Ethylbenzene	ug/L	ND	5.0	03/16/13 05:22	
Methylene Chloride	ug/L	ND	5.0	03/16/13 05:22	
Naphthalene	ug/L	ND	5.0	03/16/13 05:22	
Tetrachloroethene	ug/L	ND	5.0	03/16/13 05:22	
Toluene	ug/L	ND	5.0	03/16/13 05:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 05:22	
Trichloroethene	ug/L	ND	5.0	03/16/13 05:22	
Vinyl chloride	ug/L	ND	2.0	03/16/13 05:22	
Xylene (Total)	ug/L	ND	10.0	03/16/13 05:22	
4-Bromofluorobenzene (S)	%.	98	72-125	03/16/13 05:22	
Dibromofluoromethane (S)	%.	91	83-123	03/16/13 05:22	
Toluene-d8 (S)	%.	99	81-114	03/16/13 05:22	

LABORATORY CONTROL SAMPLE: 885589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.0	94	69-126	
1,1-Dichloroethene	ug/L	50	82.2	164	75-145	L3
Benzene	ug/L	50	48.1	96	76-123	
Carbon tetrachloride	ug/L	50	49.9	100	65-125	
Chloroform	ug/L	50	54.0	108	73-122	
cis-1,2-Dichloroethene	ug/L	50	44.3	89	79-129	
Ethylbenzene	ug/L	50	49.7	99	75-120	
Methylene Chloride	ug/L	50	46.5	93	61-138	
Naphthalene	ug/L	50	45.8	92	62-130	
Tetrachloroethene	ug/L	50	48.9	98	57-125	
Toluene	ug/L	50	48.1	96	72-124	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	71-145	
Trichloroethene	ug/L	50	52.2	104	77-122	
Vinyl chloride	ug/L	50	52.1	104	61-146	
Xylene (Total)	ug/L	150	169	112	72-126	
4-Bromofluorobenzene (S)	%.			97	72-125	
Dibromofluoromethane (S)	%.			94	83-123	
Toluene-d8 (S)	%.			98	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

MATRIX SPIKE SAMPLE: 885590

Parameter	Units	5077282004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	48.7	97	37-136	
1,1-Dichloroethene	ug/L	ND	50	87.5	175	54-152	M0
Benzene	ug/L	ND	50	49.5	99	52-134	
Carbon tetrachloride	ug/L	ND	50	51.0	102	26-136	
Chloroform	ug/L	ND	50	54.6	109	50-134	
cis-1,2-Dichloroethene	ug/L	ND	50	45.2	90	48-145	
Ethylbenzene	ug/L	ND	50	51.2	102	29-132	
Methylene Chloride	ug/L	ND	50	46.9	94	47-141	
Naphthalene	ug/L	ND	50	43.9	87	40-124	
Tetrachloroethene	ug/L	ND	50	50.3	101	30-124	
Toluene	ug/L	ND	50	48.9	97	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	53.0	106	48-144	
Trichloroethene	ug/L	ND	50	52.9	106	44-130	
Vinyl chloride	ug/L	ND	50	55.1	110	45-159	
Xylene (Total)	ug/L	ND	150	171	114	29-131	
4-Bromofluorobenzene (S)	%.				96	72-125	
Dibromofluoromethane (S)	%.				94	83-123	
Toluene-d8 (S)	%.				98	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

QC Batch: MSV/51304 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077282009, 5077282010, 5077282011, 5077282012

METHOD BLANK: 885591 Matrix: Water
Associated Lab Samples: 5077282009, 5077282010, 5077282011, 5077282012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/16/13 05:38	
1,1-Dichloroethene	ug/L	ND	5.0	03/16/13 05:38	
Benzene	ug/L	ND	5.0	03/16/13 05:38	
Carbon tetrachloride	ug/L	ND	5.0	03/16/13 05:38	
Chloroform	ug/L	ND	5.0	03/16/13 05:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 05:38	
Ethylbenzene	ug/L	ND	5.0	03/16/13 05:38	
Methylene Chloride	ug/L	ND	5.0	03/16/13 05:38	
Naphthalene	ug/L	ND	5.0	03/16/13 05:38	
Tetrachloroethene	ug/L	ND	5.0	03/16/13 05:38	
Toluene	ug/L	ND	5.0	03/16/13 05:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 05:38	
Trichloroethene	ug/L	ND	5.0	03/16/13 05:38	
Vinyl chloride	ug/L	ND	2.0	03/16/13 05:38	
Xylene (Total)	ug/L	ND	10.0	03/16/13 05:38	
4-Bromofluorobenzene (S)	%.	98	72-125	03/16/13 05:38	
Dibromofluoromethane (S)	%.	98	83-123	03/16/13 05:38	
Toluene-d8 (S)	%.	98	81-114	03/16/13 05:38	

LABORATORY CONTROL SAMPLE: 885592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.2	94	69-126	
1,1-Dichloroethene	ug/L	50	55.3	111	75-145	
Benzene	ug/L	50	53.4	107	76-123	
Carbon tetrachloride	ug/L	50	49.8	100	65-125	
Chloroform	ug/L	50	49.9	100	73-122	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	79-129	
Ethylbenzene	ug/L	50	47.4	95	75-120	
Methylene Chloride	ug/L	50	52.0	104	61-138	
Naphthalene	ug/L	50	47.7	95	62-130	
Tetrachloroethene	ug/L	50	46.3	93	57-125	
Toluene	ug/L	50	53.5	107	72-124	
trans-1,2-Dichloroethene	ug/L	50	53.1	106	71-145	
Trichloroethene	ug/L	50	49.2	98	77-122	
Vinyl chloride	ug/L	50	52.0	104	61-146	
Xylene (Total)	ug/L	150	180	120	72-126	
4-Bromofluorobenzene (S)	%.			97	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			98	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

QC Batch: MSV/51340 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077282001, 5077282003, 5077282005, 5077282006

METHOD BLANK: 886487 Matrix: Water
Associated Lab Samples: 5077282001, 5077282003, 5077282005, 5077282006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/18/13 13:37	
1,1-Dichloroethene	ug/L	ND	5.0	03/18/13 13:37	
Benzene	ug/L	ND	5.0	03/18/13 13:37	
Carbon tetrachloride	ug/L	ND	5.0	03/18/13 13:37	
Chloroform	ug/L	ND	5.0	03/18/13 13:37	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/18/13 13:37	
Ethylbenzene	ug/L	ND	5.0	03/18/13 13:37	
Methylene Chloride	ug/L	ND	5.0	03/18/13 13:37	
Naphthalene	ug/L	ND	5.0	03/18/13 13:37	
Tetrachloroethene	ug/L	ND	5.0	03/18/13 13:37	
Toluene	ug/L	ND	5.0	03/18/13 13:37	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/18/13 13:37	
Trichloroethene	ug/L	ND	5.0	03/18/13 13:37	
Vinyl chloride	ug/L	ND	2.0	03/18/13 13:37	
Xylene (Total)	ug/L	ND	10.0	03/18/13 13:37	
4-Bromofluorobenzene (S)	%.	97	72-125	03/18/13 13:37	
Dibromofluoromethane (S)	%.	99	83-123	03/18/13 13:37	
Toluene-d8 (S)	%.	98	81-114	03/18/13 13:37	

LABORATORY CONTROL SAMPLE: 886488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.8	98	69-126	
1,1-Dichloroethene	ug/L	50	57.0	114	75-145	
Benzene	ug/L	50	53.9	108	76-123	
Carbon tetrachloride	ug/L	50	52.0	104	65-125	
Chloroform	ug/L	50	50.8	102	73-122	
cis-1,2-Dichloroethene	ug/L	50	44.2	88	79-129	
Ethylbenzene	ug/L	50	47.6	95	75-120	
Methylene Chloride	ug/L	50	52.6	105	61-138	
Naphthalene	ug/L	50	48.3	97	62-130	
Tetrachloroethene	ug/L	50	46.4	93	57-125	
Toluene	ug/L	50	54.0	108	72-124	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	71-145	
Trichloroethene	ug/L	50	50.1	100	77-122	
Vinyl chloride	ug/L	50	51.6	103	61-146	
Xylene (Total)	ug/L	150	180	120	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			105	83-123	
Toluene-d8 (S)	%.			99	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

MATRIX SPIKE SAMPLE: 886515

Parameter	Units	5077242001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	34.4	69	37-136	
1,1-Dichloroethene	ug/L	ND	50	38.3	77	54-152	
Benzene	ug/L	ND	50	38.8	78	52-134	
Carbon tetrachloride	ug/L	ND	50	36.0	72	26-136	
Chloroform	ug/L	ND	50	37.2	74	50-134	
cis-1,2-Dichloroethene	ug/L	ND	50	33.1	66	48-145	
Ethylbenzene	ug/L	ND	50	32.1	64	29-132	
Methylene Chloride	ug/L	ND	50	37.6	75	47-141	
Naphthalene	ug/L	ND	50	30.2	60	40-124	
Tetrachloroethene	ug/L	ND	50	32.3	65	30-124	
Toluene	ug/L	ND	50	35.9	72	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	39.3	79	48-144	
Trichloroethene	ug/L	ND	50	37.3	75	44-130	
Vinyl chloride	ug/L	ND	50	33.2	66	45-159	
Xylene (Total)	ug/L	ND	150	116	77	29-131	
4-Bromofluorobenzene (S)	%.				99	72-125	
Dibromofluoromethane (S)	%.				105	83-123	
Toluene-d8 (S)	%.				94	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

QC Batch: MSV/51372 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5077282007, 5077282008

METHOD BLANK: 886930 | Matrix: Water
Associated Lab Samples: 5077282007, 5077282008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/19/13 14:51	
1,1-Dichloroethene	ug/L	ND	5.0	03/19/13 14:51	
Benzene	ug/L	ND	5.0	03/19/13 14:51	
Carbon tetrachloride	ug/L	ND	5.0	03/19/13 14:51	
Chloroform	ug/L	ND	5.0	03/19/13 14:51	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/19/13 14:51	
Ethylbenzene	ug/L	ND	5.0	03/19/13 14:51	
Methylene Chloride	ug/L	ND	5.0	03/19/13 14:51	
Naphthalene	ug/L	ND	5.0	03/19/13 14:51	
Tetrachloroethene	ug/L	ND	5.0	03/19/13 14:51	
Toluene	ug/L	ND	5.0	03/19/13 14:51	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/19/13 14:51	
Trichloroethene	ug/L	ND	5.0	03/19/13 14:51	
Vinyl chloride	ug/L	ND	2.0	03/19/13 14:51	
Xylene (Total)	ug/L	ND	10.0	03/19/13 14:51	
4-Bromofluorobenzene (S)	%.	102	72-125	03/19/13 14:51	
Dibromofluoromethane (S)	%.	100	83-123	03/19/13 14:51	
Toluene-d8 (S)	%.	95	81-114	03/19/13 14:51	

LABORATORY CONTROL SAMPLE: 886931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.7	101	69-126	
1,1-Dichloroethene	ug/L	50	59.7	119	75-145	
Benzene	ug/L	50	56.4	113	76-123	
Carbon tetrachloride	ug/L	50	54.4	109	65-125	
Chloroform	ug/L	50	53.2	106	73-122	
cis-1,2-Dichloroethene	ug/L	50	47.2	94	79-129	
Ethylbenzene	ug/L	50	45.9	92	75-120	
Methylene Chloride	ug/L	50	55.2	110	61-138	
Naphthalene	ug/L	50	46.4	93	62-130	
Tetrachloroethene	ug/L	50	45.8	92	57-125	
Toluene	ug/L	50	51.4	103	72-124	
trans-1,2-Dichloroethene	ug/L	50	57.5	115	71-145	
Trichloroethene	ug/L	50	52.8	106	77-122	
Vinyl chloride	ug/L	50	54.1	108	61-146	
Xylene (Total)	ug/L	150	174	116	72-126	
4-Bromofluorobenzene (S)	%.			101	72-125	
Dibromofluoromethane (S)	%.			107	83-123	
Toluene-d8 (S)	%.			93	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

MATRIX SPIKE SAMPLE: 886932

Parameter	Units	5077378001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	42.0	84	37-136	
1,1-Dichloroethene	ug/L	ND	50	50.5	101	54-152	
Benzene	ug/L	ND	50	47.3	95	52-134	
Carbon tetrachloride	ug/L	ND	50	42.9	86	26-136	
Chloroform	ug/L	ND	50	43.1	86	50-134	
cis-1,2-Dichloroethene	ug/L	ND	50	41.9	77	48-145	
Ethylbenzene	ug/L	ND	50	37.8	76	29-132	
Methylene Chloride	ug/L	ND	50	43.7	87	47-141	
Naphthalene	ug/L	ND	50	34.4	69	40-124	
Tetrachloroethene	ug/L	ND	50	38.1	75	30-124	
Toluene	ug/L	ND	50	42.7	85	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	52.3	98	48-144	
Trichloroethene	ug/L	ND	50	43.8	88	44-130	
Vinyl chloride	ug/L	ND	50	47.7	93	45-159	
Xylene (Total)	ug/L	ND	150	141	94	29-131	
4-Bromofluorobenzene (S)	%.				99	72-125	
Dibromofluoromethane (S)	%.				104	83-123	
Toluene-d8 (S)	%.				94	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

QC Batch: OHIO/6110 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5077282007, 5077282008

METHOD BLANK: 883665 Matrix: Water
Associated Lab Samples: 5077282007, 5077282008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/14/13 09:05	N2

LABORATORY CONTROL SAMPLE: 883666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.6	92	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 883668 883669

Parameter	Units	5077183002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.2	4	4	6.3	6.2	102	101	75-125	1	20	N2

SAMPLE DUPLICATE: 883667

Parameter	Units	5077183002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.2	2.1	1	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

QC Batch: WET/11344 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5077282007, 5077282008, 5077282009, 5077282010

METHOD BLANK: 887412 Matrix: Water
Associated Lab Samples: 5077282007, 5077282008, 5077282009, 5077282010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	03/20/13 12:46	N2

LABORATORY CONTROL SAMPLE: 887413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.3	102	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 887414 887415

Parameter	Units	5077271001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	29.2	50	50	80.9	82.8	104	107	90-110	2	20	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 887610 887611

Parameter	Units	5077719010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	70.6	100	100	172	170	101	100	90-110	1	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077282

QC Batch: WETA/9323 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5077282007, 5077282008, 5077282009, 5077282010

METHOD BLANK: 882467 Matrix: Water
Associated Lab Samples: 5077282007, 5077282008, 5077282009, 5077282010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/11/13 08:50	
Nitrogen, Nitrite	mg/L	ND	0.10	03/11/13 08:50	

LABORATORY CONTROL SAMPLE: 882468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.9	93	90-110	
Nitrogen, Nitrite	mg/L	2	1.8	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 882469 882470

Parameter	Units	5077282007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.7	1.7	80	81	90-110	1	20	M3
Nitrogen, Nitrite	mg/L	ND	2	2	1.7	1.7	85	84	90-110	0	20	M3

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077282

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077282001	MMW-C-17D	EPA 8260	MSV/51340		
5077282002	MMW-P-14S	EPA 8260	MSV/51303		
5077282003	MMW-P-14D	EPA 8260	MSV/51340		
5077282004	MMW-P-13S	EPA 8260	MSV/51303		
5077282005	MMW-P-13D	EPA 8260	MSV/51340		
5077282006	MMW-C-02D	EPA 8260	MSV/51340		
5077282007	MMW-P-12S	EPA 8260	MSV/51372		
5077282008	MMW-P-12D	EPA 8260	MSV/51372		
5077282009	MMW-P-04	EPA 8260	MSV/51304		
5077282010	Dup 2	EPA 8260	MSV/51304		
5077282011	EQ Blank	EPA 8260	MSV/51304		
5077282012	Trip Blank	EPA 8260	MSV/51304		
5077282007	MMW-P-12S	SM 5310C	OHIO/6110		
5077282008	MMW-P-12D	SM 5310C	OHIO/6110		
5077282007	MMW-P-12S	ASTM D516-90,02	WET/11344		
5077282008	MMW-P-12D	ASTM D516-90,02	WET/11344		
5077282009	MMW-P-04	ASTM D516-90,02	WET/11344		
5077282010	Dup 2	ASTM D516-90,02	WET/11344		
5077282007	MMW-P-12S	EPA 353.2	WETA/9323		
5077282008	MMW-P-12D	EPA 353.2	WETA/9323		
5077282009	MMW-P-04	EPA 353.2	WETA/9323		
5077282010	Dup 2	EPA 353.2	WETA/9323		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of

1391781

Section A Required Client Information:

Company: Mundell & Assoc
Address: 110 S. Pawney Ave
Indpls, IN
Email To:
Phone: Fax:
Requested Due Date/TAT: SAT

Section B Required Project Information:

Report To: Mark Bretting
Copy To:
Purchase Order No.:
Project Name: M1 Plaza
Project Number: M01046

Section C Invoice Information:

Attention: Merle Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Sulfate	TDS	Nitrate/Nitrite Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-C-17D	WT	G			3-7-13	9:00A		3				X					X				-001
2	MMW-P-14S						9:59A		3													-002
3	MMW-P-14D						10:55A		3													-003
4	MMW-P-13S						12:05P		3													-004
5	MMW-P-13D						12:56P		3													-005
6	MMW-C-02D						1:45P		3													-006
7	MMW-P-12S					3-9-13	10:25A		5	X	X		X						X	X	X	-007
8	MMW-P-12D						11:25A		5	X	X		X						X	X	X	-008
9	MW-P-04						12:00		5	X	X		X						X	X	X	-009
10	DUP 2								5	X	X		X						X	X	X	-010
11	EQ Blank						2:10P		3	X												-011
12	Trip Blank								3	X												-012

5077282

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3/11/13	0844	[signature]	3/11/13	0844	0.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Reference 28 Page 217

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell Project # 5077282

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other Ice/Foamblocks

Thermometer Used 2 3 4 6 A B C D E Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.6°C Ice Visible in Sample Containers: ☐ yes ☐ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/11/13 KJ

				Comments:
Chain of Custody Present:	☐Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☐Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☐Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☐No	☐N/A	5. took copy to wetchem
Rush Turn Around Time Requested:	☐Yes	☐No	☐N/A	6.
Containers Intact:	☐Yes	☐No	☐N/A	7.
Sample Labels match COC - Includes date/time/ID/Analysis	☐Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☐N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation:	☐Yes	☐No	☐N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☐N/A	10.
Trip Blank Present:	☐Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☐Yes	☐No	☐N/A	12.
Sufficient Volume:	☐Yes	☐No	☐N/A	13.
Correct Containers Used:	☐Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: 3/19 – TOC bottles frozen & broken for MMW-PO4 & Dup 2. Contacted client via phone. Analyst tried to use HCl preserved vials but could not report any data due to HCl interference 3/26/13 TMS

Project Manager Review: J Sayer Date: 3/11/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1

COC ID# 1391281

Project # 5077282

Pace Analytical

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3													
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

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March 21, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077286

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077286

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077286001	MW-170S	Water	03/08/13 09:32	03/11/13 08:44
5077286002	MW-170D	Water	03/08/13 10:44	03/11/13 08:44
5077286003	MW-167D	Water	03/08/13 12:07	03/11/13 08:44
5077286004	MW-168D	Water	03/08/13 13:26	03/11/13 08:44
5077286005	MW-168S	Water	03/08/13 12:20	03/11/13 08:44
5077286006	MW-167S	Water	03/08/13 11:13	03/11/13 08:44

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077286001	MW-170S	EPA 8260	DAE	18
5077286002	MW-170D	EPA 8260	DAE	18
5077286003	MW-167D	EPA 8260	DAE	18
5077286004	MW-168D	EPA 8260	DAE	18
5077286005	MW-168S	EPA 8260	DAE	18
5077286006	MW-167S	EPA 8260	DAE	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077286

Sample: MW-170S Lab ID: 5077286001 Collected: 03/08/13 09:32 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 15:46	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 15:46	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 15:46	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 15:46	75-35-4	
cis-1,2-Dichloroethene	7.9	ug/L	5.0	1		03/19/13 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 15:46	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 15:46	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 15:46	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 15:46	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 15:46	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 15:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 15:46	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 15:46	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/19/13 15:46	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 15:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/19/13 15:46	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		03/19/13 15:46	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		03/19/13 15:46	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077286

Sample: MW-170D **Lab ID: 5077286002** Collected: 03/08/13 10:44 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 16:19	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 16:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 16:19	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 16:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 16:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 16:19	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 16:19	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 16:19	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 16:19	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 16:19	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 16:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 16:19	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 16:19	79-01-6	
Vinyl chloride	76.9	ug/L	2.0	1		03/19/13 16:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 16:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		03/19/13 16:19	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		03/19/13 16:19	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		03/19/13 16:19	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077286

Sample: MW-167D Lab ID: 5077286003 Collected: 03/08/13 12:07 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 16:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 16:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 16:52	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 16:52	75-35-4	
cis-1,2-Dichloroethene	382	ug/L	50.0	10		03/19/13 17:25	156-59-2	
trans-1,2-Dichloroethene	19.1	ug/L	5.0	1		03/19/13 16:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 16:52	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 16:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 16:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 16:52	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 16:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 16:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 16:52	79-01-6	
Vinyl chloride	13.5	ug/L	2.0	1		03/19/13 16:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 16:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		03/19/13 16:52	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		03/19/13 16:52	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		03/19/13 16:52	2037-26-5	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077286

Sample: MW-168D **Lab ID: 5077286004** Collected: 03/08/13 13:26 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 17:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 17:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 17:58	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 17:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 17:58	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 17:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 17:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 17:58	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 17:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 17:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 17:58	79-01-6	
Vinyl chloride	80.5	ug/L	2.0	1		03/19/13 17:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 17:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		03/19/13 17:58	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		03/19/13 17:58	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		03/19/13 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077286

Sample: MW-168S **Lab ID: 5077286005** Collected: 03/08/13 12:20 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 18:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 18:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 18:31	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 18:31	75-35-4	
cis-1,2-Dichloroethene	75.7	ug/L	5.0	1		03/19/13 18:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 18:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 18:31	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 18:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 18:31	91-20-3	
Tetrachloroethene	76.0	ug/L	5.0	1		03/19/13 18:31	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 18:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 18:31	71-55-6	
Trichloroethene	11.7	ug/L	5.0	1		03/19/13 18:31	79-01-6	
Vinyl chloride	57.1	ug/L	2.0	1		03/19/13 18:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 18:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		03/19/13 18:31	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		03/19/13 18:31	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		03/19/13 18:31	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077286

Sample: MW-167S **Lab ID: 5077286006** Collected: 03/08/13 11:13 Received: 03/11/13 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		03/19/13 19:04	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 19:04	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/19/13 19:04	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 19:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 19:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 19:04	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 19:04	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 19:04	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/19/13 19:04	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 19:04	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 19:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 19:04	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 19:04	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/19/13 19:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 19:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		03/19/13 19:04	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		03/19/13 19:04	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		03/19/13 19:04	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077286

QC Batch: MSV/51242 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077286001, 5077286002, 5077286003, 5077286004, 5077286005, 5077286006

METHOD BLANK: 884204 Matrix: Water
Associated Lab Samples: 5077286001, 5077286002, 5077286003, 5077286004, 5077286005, 5077286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/19/13 15:13	
1,1-Dichloroethene	ug/L	ND	5.0	03/19/13 15:13	
Benzene	ug/L	ND	5.0	03/19/13 15:13	
Carbon tetrachloride	ug/L	ND	5.0	03/19/13 15:13	
Chloroform	ug/L	ND	5.0	03/19/13 15:13	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/19/13 15:13	
Ethylbenzene	ug/L	ND	5.0	03/19/13 15:13	
Methylene Chloride	ug/L	ND	5.0	03/19/13 15:13	
Naphthalene	ug/L	ND	5.0	03/19/13 15:13	
Tetrachloroethene	ug/L	ND	5.0	03/19/13 15:13	
Toluene	ug/L	ND	5.0	03/19/13 15:13	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/19/13 15:13	
Trichloroethene	ug/L	ND	5.0	03/19/13 15:13	
Vinyl chloride	ug/L	ND	2.0	03/19/13 15:13	
Xylene (Total)	ug/L	ND	10.0	03/19/13 15:13	
4-Bromofluorobenzene (S)	%.	95	72-125	03/19/13 15:13	
Dibromofluoromethane (S)	%.	99	83-123	03/19/13 15:13	
Toluene-d8 (S)	%.	97	81-114	03/19/13 15:13	

LABORATORY CONTROL SAMPLE: 884205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.4	93	69-126	
1,1-Dichloroethene	ug/L	50	53.9	108	75-145	
Benzene	ug/L	50	48.1	96	76-123	
Carbon tetrachloride	ug/L	50	47.6	95	65-125	
Chloroform	ug/L	50	51.1	102	73-122	
cis-1,2-Dichloroethene	ug/L	50	44.0	88	79-129	
Ethylbenzene	ug/L	50	50.2	100	75-120	
Methylene Chloride	ug/L	50	57.6	115	61-138	
Naphthalene	ug/L	50	41.1	82	62-130	
Tetrachloroethene	ug/L	50	48.5	97	57-125	
Toluene	ug/L	50	49.0	98	72-124	
trans-1,2-Dichloroethene	ug/L	50	48.1	96	71-145	
Trichloroethene	ug/L	50	48.9	98	77-122	
Vinyl chloride	ug/L	50	47.6	95	61-146	
Xylene (Total)	ug/L	150	152	101	72-126	
4-Bromofluorobenzene (S)	%.			105	72-125	
Dibromofluoromethane (S)	%.			96	83-123	
Toluene-d8 (S)	%.			100	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077286

MATRIX SPIKE SAMPLE: 886938

Parameter	Units	5077454001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	49.5	99	37-136	
1,1-Dichloroethene	ug/L	5.9	50	61.9	112	54-152	
Benzene	ug/L	ND	50	51.2	102	52-134	
Carbon tetrachloride	ug/L	ND	50	52.4	105	26-136	
Chloroform	ug/L	ND	50	54.1	108	50-134	
cis-1,2-Dichloroethene	ug/L	3110	50	4490	2770	48-145	M0
Ethylbenzene	ug/L	ND	50	52.7	105	29-132	
Methylene Chloride	ug/L	ND	50	56.2	112	47-141	
Naphthalene	ug/L	ND	50	38.8	78	40-124	
Tetrachloroethene	ug/L	ND	50	50.4	101	30-124	
Toluene	ug/L	ND	50	51.9	104	42-130	
trans-1,2-Dichloroethene	ug/L	268	50	330	125	48-144	
Trichloroethene	ug/L	448	50	742	588	44-130	M0
Vinyl chloride	ug/L	1100	50	1100	-1	45-159	M0
Xylene (Total)	ug/L	ND	150	154	103	29-131	
4-Bromofluorobenzene (S)	%.				105	72-125	
Dibromofluoromethane (S)	%.				96	83-123	
Toluene-d8 (S)	%.				102	81-114	

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077286

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077286001	MW-170S	EPA 8260	MSV/51242		
5077286002	MW-170D	EPA 8260	MSV/51242		
5077286003	MW-167D	EPA 8260	MSV/51242		
5077286004	MW-168D	EPA 8260	MSV/51242		
5077286005	MW-168S	EPA 8260	MSV/51242		
5077286006	MW-167S	EPA 8260	MSV/51242		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1391765

Section A Required Client Information:
Company: Mundell & Assoc.
Address: 110 S. Downey Ave Indpls, IN
Email To:
Phone: Fax:
Requested Due Date/TAT: SAT

Section B Required Project Information:
Report To: Mark Wieting
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M01046

Section C Invoice Information:
Attention: Mark Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER
Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	PSL Vol 5 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-170S	WT	G			3-8-13	9:32a		3				X						X		50777286-001
2	MW-170D	↓	↓			↓	10:40a		3				X						↓		-002
3	MW-167D						12:07p		3				X								-003
4	MW-168D						1:26p		3				X								-004
5	MW-168S						12:24p		3				X								-005
6	MW-167S	↓	↓			↓	11:13a		3				X						↓		-006
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3/11/13	0844	[signature] PACE	3/11/13	0844	0.6	Y	N	Y

WI Check Hole ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammer
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3-8-13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 50777286

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Ice/foam blocks

Thermometer Used 2 3 4 6 A B C D E Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 0-6°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/11/13 KMH

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	10. 1 vial MW 168S, "X" placed on cap
Trip Blank Present:	☐Yes	☑No	☐N/A	11.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Y Sayer Date: 3/11/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Munder

COC PAGE 1 of 1

COC ID# 139765

Project # 5077286

Pace Analytical

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

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March 22, 2013

Mark Breting
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MI PLAZA / M01046**
Microseeps Workorder: 8247

Dear Mark Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, March 06, 2013. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 03/22/2013
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages ____

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 8247 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
82470001	MMW-P-02	Water	3/4/2013 17:09	3/6/2013 11:00
82470002	MMW-P-03D	Water	3/4/2013 16:40	3/6/2013 11:00
82470003	MMW-P-03S	Water	3/4/2013 16:12	3/6/2013 11:00
82470004	MMW-P-05	Water	3/4/2013 15:33	3/6/2013 11:00
82470005	MMW-P-06	Water	3/4/2013 14:48	3/6/2013 11:00
82470006	MMW-P-01	Water	3/4/2013 14:13	3/6/2013 11:00
82470007	MMW-P-07	Water	3/4/2013 13:40	3/6/2013 11:00
82470008	MMW-P-08	Water	3/4/2013 13:07	3/6/2013 11:00
82470009	MMW-9S	Water	2/28/2013 09:53	3/6/2013 11:00
82470010	MMW-10S	Water	2/28/2013 11:01	3/6/2013 11:00
82470011	MMW-1S	Water	2/28/2013 11:45	3/6/2013 11:00
82470012	MMW-8S	Water	2/28/2013 12:23	3/6/2013 11:00
82470013	MMW-P-10S	Water	2/28/2013 13:09	3/6/2013 11:00
82470014	MMW-P-10D	Water	2/28/2013 13:56	3/6/2013 11:00
82470015	MS	Water	2/28/2013 09:53	3/6/2013 11:00
82470016	MSD	Water	2/28/2013 09:53	3/6/2013 11:00

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PROJECT SUMMARY

Workorder: 8247 MI PLAZA / M01046

Batch Comments

Batch: DISG/2848 - AM20GAX Water QC

The matrix spike and/or matrix spike duplicate, recovery or relative percent difference; accuracy influenced by the concentration of the reference sample; 82470009. Analyte Methane. Batch acceptance based on laboratory control sample recovery.

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470001 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-02 Date Collected: 3/4/2013 17:09

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.070J	mg/l	0.10	0.032	1			3/15/2013 00:56	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/15/2013 00:56	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/15/2013 00:56	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/15/2013 00:56	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/15/2013 00:56	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/15/2013 00:56	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/15/2013 00:56	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 00:56	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 00:56	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	15000	ug/l	0.10	0.018	1			3/13/2013 08:24	BW	
Ethane	1.2	ug/l	0.025	0.0070	1			3/13/2013 08:24	BW	
Ethene	74	ug/l	0.025	0.0050	1			3/13/2013 08:24	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470002 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-03D Date Collected: 3/4/2013 16:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.044J	mg/l	0.10	0.032	1			3/15/2013 01:38	KB	
Acetic Acid	0.57	mg/l	0.070	0.021	1			3/15/2013 01:38	KB	
Propionic Acid	0.014J	mg/l	0.050	0.0040	1			3/15/2013 01:38	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/15/2013 01:38	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/15/2013 01:38	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/15/2013 01:38	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/15/2013 01:38	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 01:38	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 01:38	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	22000	ug/l	0.10	0.018	1			3/13/2013 08:35	BW	
Ethane	67	ug/l	0.025	0.0070	1			3/13/2013 08:35	BW	
Ethene	1000	ug/l	0.025	0.0050	1			3/13/2013 08:35	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470003 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-03S Date Collected: 3/4/2013 16:12

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.053J	mg/l	0.10	0.032	1			3/15/2013 02:20	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/15/2013 02:20	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/15/2013 02:20	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/15/2013 02:20	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/15/2013 02:20	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/15/2013 02:20	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/15/2013 02:20	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 02:20	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 02:20	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	12000	ug/l	0.10	0.018	1			3/13/2013 08:46	BW	
Ethane	1.1	ug/l	0.025	0.0070	1			3/13/2013 08:46	BW	
Ethene	80	ug/l	0.025	0.0050	1			3/13/2013 08:46	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470004 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-05 Date Collected: 3/4/2013 15:33

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.10 U	mg/l	0.10	0.032	1			3/15/2013 03:02	KB	
Acetic Acid	10	mg/l	0.70	0.21	10			3/15/2013 12:10	KB	
Propionic Acid	1.7	mg/l	0.50	0.040	10			3/15/2013 12:10	KB	
Butyric Acid	0.38	mg/l	0.050	0.0070	1			3/15/2013 03:02	KB	
Pyruvic Acid	0.10J	mg/l	0.15	0.0040	1			3/15/2013 03:02	KB	
i-Pentanoic Acid	0.069J	mg/l	0.15	0.012	1			3/15/2013 03:02	KB	
Pentanoic Acid	0.029J	mg/l	0.070	0.010	1			3/15/2013 03:02	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 03:02	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 03:02	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	6400	ug/l	0.10	0.018	1			3/13/2013 08:56	BW	
Ethane	0.47	ug/l	0.025	0.0070	1			3/13/2013 08:56	BW	
Ethene	17	ug/l	0.025	0.0050	1			3/13/2013 08:56	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470005 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-06 Date Collected: 3/4/2013 14:48

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.045J	mg/l	0.10	0.032	1			3/15/2013 03:44	KB	
Acetic Acid	0.98	mg/l	0.070	0.021	1			3/15/2013 03:44	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/15/2013 03:44	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/15/2013 03:44	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/15/2013 03:44	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/15/2013 03:44	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/15/2013 03:44	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 03:44	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 03:44	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	17000	ug/l	0.10	0.018	1			3/13/2013 09:07	BW	
Ethane	0.75	ug/l	0.025	0.0070	1			3/13/2013 09:07	BW	
Ethene	620	ug/l	0.025	0.0050	1			3/13/2013 09:07	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470006 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-01 Date Collected: 3/4/2013 14:13

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.057J	mg/l	0.10	0.032	1			3/15/2013 04:26	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/15/2013 04:26	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/15/2013 04:26	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/15/2013 04:26	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/15/2013 04:26	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/15/2013 04:26	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/15/2013 04:26	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 04:26	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 04:26	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	12000	ug/l	0.10	0.018	1			3/13/2013 09:16	BW	
Ethane	0.35	ug/l	0.025	0.0070	1			3/13/2013 09:16	BW	
Ethene	540	ug/l	0.025	0.0050	1			3/13/2013 09:16	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470007 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-07 Date Collected: 3/4/2013 13:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.050J	mg/l	0.10	0.032	1			3/15/2013 05:09	KB	
Acetic Acid	0.13	mg/l	0.070	0.021	1			3/15/2013 05:09	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/15/2013 05:09	KB	
Butyric Acid	0.023J	mg/l	0.050	0.0070	1			3/15/2013 05:09	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/15/2013 05:09	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/15/2013 05:09	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/15/2013 05:09	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 05:09	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 05:09	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	5700	ug/l	0.10	0.018	1			3/13/2013 09:28	BW	
Ethane	0.16	ug/l	0.025	0.0070	1			3/13/2013 09:28	BW	
Ethene	250	ug/l	0.025	0.0050	1			3/13/2013 09:28	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470008 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-08 Date Collected: 3/4/2013 13:07

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			**Analytical Method:** AM23G							
Lactic Acid	0.058J	mg/l	0.10	0.032	1			3/15/2013 05:51	KB	
Acetic Acid	0.074	mg/l	0.070	0.021	1			3/15/2013 05:51	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/15/2013 05:51	KB	
Butyric Acid	0.035J	mg/l	0.050	0.0070	1			3/15/2013 05:51	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/15/2013 05:51	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/15/2013 05:51	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/15/2013 05:51	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/15/2013 05:51	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/15/2013 05:51	KB	
RISK - MICR										
Analysis Desc: AM20GAX			**Analytical Method:** AM20GAX							
Methane	9200	ug/l	0.10	0.018	1			3/13/2013 09:45	BW	
Ethane	12	ug/l	0.025	0.0070	1			3/13/2013 09:45	BW	
Ethene	320	ug/l	0.025	0.0050	1			3/13/2013 09:45	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470009 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-9S Date Collected: 2/28/2013 09:53

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.071J	mg/l	0.10	0.032	1			3/14/2013 19:19	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/14/2013 19:19	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/14/2013 19:19	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/14/2013 19:19	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/14/2013 19:19	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/14/2013 19:19	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/14/2013 19:19	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/14/2013 19:19	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/14/2013 19:19	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	9800	ug/l	0.10	0.018	1			3/13/2013 09:58	BW	
Ethane	2.4	ug/l	0.025	0.0070	1			3/13/2013 09:58	BW	
Ethene	36	ug/l	0.025	0.0050	1			3/13/2013 09:58	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470010 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-10S Date Collected: 2/28/2013 11:01

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.065J	mg/l	0.10	0.032	1			3/14/2013 20:01	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/14/2013 20:01	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/14/2013 20:01	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/14/2013 20:01	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/14/2013 20:01	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/14/2013 20:01	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/14/2013 20:01	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/14/2013 20:01	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/14/2013 20:01	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	12000	ug/l	0.10	0.018	1			3/13/2013 10:09	BW	
Ethane	0.091	ug/l	0.025	0.0070	1			3/13/2013 10:09	BW	
Ethene	11	ug/l	0.025	0.0050	1			3/13/2013 10:09	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470011 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-1S Date Collected: 2/28/2013 11:45

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.071J	mg/l	0.10	0.032	1			3/14/2013 20:43	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/14/2013 20:43	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/14/2013 20:43	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/14/2013 20:43	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/14/2013 20:43	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/14/2013 20:43	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/14/2013 20:43	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/14/2013 20:43	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/14/2013 20:43	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	54	ug/l	0.10	0.018	1			3/13/2013 10:24	BW	
Ethane	0.025 U	ug/l	0.025	0.0070	1			3/13/2013 10:24	BW	
Ethene	0.018J	ug/l	0.025	0.0050	1			3/13/2013 10:24	BW	

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ANALYTICAL RESULTS

Workorder: 8247 Mi PLAZA / M01046

Lab ID: 82470012 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-8S Date Collected: 2/28/2013 12:23

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.061J	mg/l	0.10	0.032	1			3/14/2013 21:25	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/14/2013 21:25	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/14/2013 21:25	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/14/2013 21:25	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/14/2013 21:25	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/14/2013 21:25	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/14/2013 21:25	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/14/2013 21:25	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/14/2013 21:25	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	12000	ug/l	0.10	0.018	1			3/13/2013 10:34	BW	
Ethane	0.054	ug/l	0.025	0.0070	1			3/13/2013 10:34	BW	
Ethene	11	ug/l	0.025	0.0050	1			3/13/2013 10:34	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470013 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-10S Date Collected: 2/28/2013 13:09

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.046J	mg/l	0.10	0.032	1			3/14/2013 22:07	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/14/2013 22:07	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/14/2013 22:07	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/14/2013 22:07	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/14/2013 22:07	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/14/2013 22:07	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/14/2013 22:07	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/14/2013 22:07	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/14/2013 22:07	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	11000	ug/l	0.10	0.018	1			3/13/2013 11:30	BW	
Ethane	3.2	ug/l	0.025	0.0070	1			3/13/2013 11:30	BW	
Ethene	11	ug/l	0.025	0.0050	1			3/13/2013 11:30	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470014 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MMW-P-10D Date Collected: 2/28/2013 13:56

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.058J	mg/l	0.10	0.032	1			3/14/2013 22:50	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/14/2013 22:50	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/14/2013 22:50	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/14/2013 22:50	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/14/2013 22:50	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/14/2013 22:50	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/14/2013 22:50	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/14/2013 22:50	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/14/2013 22:50	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	17000	ug/l	0.10	0.018	1			3/13/2013 11:45	BW	
Ethane	0.68	ug/l	0.025	0.0070	1			3/13/2013 11:45	BW	
Ethene	43	ug/l	0.025	0.0050	1			3/13/2013 11:45	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470015 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MS Date Collected: 2/28/2013 09:53

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	2.0	mg/l	0.10	0.032	1			3/14/2013 23:32	KB	
Acetic Acid	2.0	mg/l	0.070	0.021	1			3/14/2013 23:32	KB	
Propionic Acid	2.0	mg/l	0.050	0.0040	1			3/14/2013 23:32	KB	
Butyric Acid	1.9	mg/l	0.050	0.0070	1			3/14/2013 23:32	KB	
Pyruvic Acid	1.9	mg/l	0.15	0.0040	1			3/14/2013 23:32	KB	
i-Pentanoic Acid	1.8	mg/l	0.15	0.012	1			3/14/2013 23:32	KB	
Pentanoic Acid	1.8	mg/l	0.070	0.010	1			3/14/2013 23:32	KB	
i-Hexanoic Acid	2.4	mg/l	0.050	0.013	1			3/14/2013 23:32	KB	
Hexanoic Acid	1.7	mg/l	0.10	0.039	1			3/14/2013 23:32	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	12000	ug/l	0.10	0.018	1			3/13/2013 11:57	BW	
Ethane	41	ug/l	0.025	0.0070	1			3/13/2013 11:57	BW	
Ethene	79	ug/l	0.025	0.0050	1			3/13/2013 11:57	BW	

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ANALYTICAL RESULTS

Workorder: 8247 MI PLAZA / M01046

Lab ID: 82470016 Date Received: 3/6/2013 11:00 Matrix: Water
Sample ID: MSD Date Collected: 2/28/2013 09:53

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	2.0	mg/l	0.10	0.032	1			3/15/2013 00:14	KB	
Acetic Acid	2.0	mg/l	0.070	0.021	1			3/15/2013 00:14	KB	
Propionic Acid	2.0	mg/l	0.050	0.0040	1			3/15/2013 00:14	KB	
Butyric Acid	1.9	mg/l	0.050	0.0070	1			3/15/2013 00:14	KB	
Pyruvic Acid	1.9	mg/l	0.15	0.0040	1			3/15/2013 00:14	KB	
i-Pentanoic Acid	1.8	mg/l	0.15	0.012	1			3/15/2013 00:14	KB	
Pentanoic Acid	1.8	mg/l	0.070	0.010	1			3/15/2013 00:14	KB	
i-Hexanoic Acid	2.1	mg/l	0.050	0.013	1			3/15/2013 00:14	KB	
Hexanoic Acid	1.8	mg/l	0.10	0.039	1			3/15/2013 00:14	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	12000	ug/l	0.10	0.018	1			3/13/2013 12:10	BW	
Ethane	35	ug/l	0.025	0.0070	1			3/13/2013 12:10	BW	
Ethene	72	ug/l	0.025	0.0050	1			3/13/2013 12:10	BW	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 8247 MI PLAZA / M01046

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).

Disclaimer: The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

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QUALITY CONTROL DATA

Workorder: 8247 MI PLAZA / M01046

QC Batch: DISG/2848 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 82470001, 82470002, 82470003, 82470004, 82470005, 82470006, 82470007, 82470008, 82470009, 82470010, 82470011, 82470012, 82470013, 82470014, 82470015, 82470016

METHOD BLANK: 18638

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.10 U	0.10	
Ethane	ug/l	0.025 U	0.025	
Ethene	ug/l	0.025 U	0.025	

LABORATORY CONTROL SAMPLE & LCSD: 18639 18640

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	800	800	97	98	80-120	1	20	
Ethane	ug/l	42	43	43	103	104	80-120	0.97	20	
Ethene	ug/l	39	40	40	103	104	80-120	0.97	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 18641 18642 Original: 82470009

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	9800	820	12000	12000	287	215	70-130	29	20	
Ethane	ug/l	2.4	42	41	35	93	79	70-130	16	20	
Ethene	ug/l	36	39	79	72	109	93	70-130	16	20	

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QUALITY CONTROL DATA

Workorder: 8247 MI PLAZA / M01046

QC Batch: EDON/1684 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 82470001, 82470002, 82470003, 82470004, 82470005, 82470006, 82470007, 82470008, 82470009, 82470010, 82470011, 82470012, 82470013, 82470014, 82470015, 82470016

METHOD BLANK: 18753

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.10 U	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Butyric Acid	mg/l	0.050 U	0.050	
Pyruvic Acid	mg/l	0.15 U	0.15	
i-Pentanoic Acid	mg/l	0.15 U	0.15	
Pentanoic Acid	mg/l	0.070 U	0.070	
i-Hexanoic Acid	mg/l	0.050 U	0.050	
Hexanoic Acid	mg/l	0.10 U	0.10	

LABORATORY CONTROL SAMPLE: 18754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	102	70-130	
Acetic Acid	mg/l	2	2.0	102	70-130	
Propionic Acid	mg/l	2	2.0	101	70-130	
Butyric Acid	mg/l	2	1.9	97	70-130	
Pyruvic Acid	mg/l	2	2.0	99	70-130	
i-Pentanoic Acid	mg/l	2	1.9	96	70-130	
Pentanoic Acid	mg/l	2	1.9	97	70-130	
i-Hexanoic Acid	mg/l	2	1.8	90	70-130	
Hexanoic Acid	mg/l	2	1.8	88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 18755 18756 Original: 82470009

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.071	2	2.0	2.0	99	98	70-130	1	30	
Acetic Acid	mg/l	0.0019	2	2.0	2.0	102	102	70-130	0	30	

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QUALITY CONTROL DATA

Workorder: 8247 MI PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 18755 18756 Original: 82470009

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Propionic Acid	mg/l	0	2	2.0	2.0	99	100	70-130	1	30	
Butyric Acid	mg/l	0	2	1.9	1.9	94	95	70-130	1.1	30	
Pyruvic Acid	mg/l	0	2	1.9	1.9	97	97	70-130	0	30	
i-Pentanoic Acid	mg/l	0	2	1.8	1.8	90	92	70-130	2.2	30	
Pentanoic Acid	mg/l	0	2	1.8	1.8	93	92	70-130	1.1	30	
i-Hexanoic Acid	mg/l	0	2	2.4	2.1	123	104	70-130	17	30	
Hexanoic Acid	mg/l	0	2	1.7	1.8	84	90	70-130	6.9	30	

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QUALITY CONTROL DATA

Workorder: 8247 MI PLAZA / M01046

QC Batch: EDON/1690 Analysis Method: AM23G
QC Batch Method: AM23G
Associated Lab Samples: 82470004

METHOD BLANK: 18852

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	

LABORATORY CONTROL SAMPLE: 18853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Acetic Acid	mg/l	2	2.0	103	70-130	
Propionic Acid	mg/l	2	2.0	101	70-130	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 8247 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
82470001	MMW-P-02			AM20GAX	DISG/2848
82470002	MMW-P-03D			AM20GAX	DISG/2848
82470003	MMW-P-03S			AM20GAX	DISG/2848
82470004	MMW-P-05			AM20GAX	DISG/2848
82470005	MMW-P-06			AM20GAX	DISG/2848
82470006	MMW-P-01			AM20GAX	DISG/2848
82470007	MMW-P-07			AM20GAX	DISG/2848
82470008	MMW-P-08			AM20GAX	DISG/2848
82470009	MMW-9S			AM20GAX	DISG/2848
82470010	MMW-10S			AM20GAX	DISG/2848
82470011	MMW-1S			AM20GAX	DISG/2848
82470012	MMW-8S			AM20GAX	DISG/2848
82470013	MMW-P-10S			AM20GAX	DISG/2848
82470014	MMW-P-10D			AM20GAX	DISG/2848
82470015	MS			AM20GAX	DISG/2848
82470016	MSD			AM20GAX	DISG/2848
82470001	MMW-P-02			AM23G	EDON/1684
82470002	MMW-P-03D			AM23G	EDON/1684
82470003	MMW-P-03S			AM23G	EDON/1684
82470004	MMW-P-05			AM23G	EDON/1684
82470005	MMW-P-06			AM23G	EDON/1684
82470006	MMW-P-01			AM23G	EDON/1684
82470007	MMW-P-07			AM23G	EDON/1684
82470008	MMW-P-08			AM23G	EDON/1684
82470009	MMW-9S			AM23G	EDON/1684
82470010	MMW-10S			AM23G	EDON/1684
82470011	MMW-1S			AM23G	EDON/1684
82470012	MMW-8S			AM23G	EDON/1684
82470013	MMW-P-10S			AM23G	EDON/1684
82470014	MMW-P-10D			AM23G	EDON/1684
82470015	MS			AM23G	EDON/1684
82470016	MSD			AM23G	EDON/1684

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 8247 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
82470004	MMW-P-05			AM23G	EDON/1690

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Microseeps Lab. Proj. # 8247

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Assoc.
Co. Address : 110 S. Downey Ave Indpls, IN
Phone # : 317-630-9060 Fax # :
Proj. Manager : Mark Bratkus
Proj. Name/Number : MT Plaza / M01046
Sampler's signature :

Cooler Temp. 6°C

Results to : Mark Bratkus

Invoice to : Mark Tebbe

Parameters Requested: VOA AM23G; Chlorinated Hydrocarbons; MEE AM20GAX

Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# Bottles	VOA AM23G	Chlorinated Hydrocarbons	MEE AM20GAX	Remarks :
MMW-P-02	water	✓			3-4-13	5:09p	4	X	X	X	
MMW-P-03D						4:40p	4				
MMW-P-03S						4:12p	4				
MMW-P-05						3:33p	4				
MMW-P-06						2:48p	4				
MMW-P-01						2:13p	4				
MMW-P-07						1:40p	4				
MMW-P-08						1:07p	4				
MMW-~~15~~9S					2-28-13	9:53A	4				
MMW-10S						11:01A	4				
MMW-1S						11:45A	4				
MMW-8S						12:23p					

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	Mundell	3-4-13	6:20P		A S		
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Microseeps Lab. Proj. # 5247

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Assoc
Co. Address : 110 S. Downey Ave Indpls, IN
Phone # : 317-636-9060 Fax # :
Proj. Manager : Mark Bieting
Proj. Name/Number : MT Plaza / M61046
Sampler's signature :

Cooler Temp. 6°C

Results to : Mark Bieting
Invoice to : Mark Tribe

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# Containers	VFA AM23G7	MEF AM20GAX	Remarks
MMW-P-10S	water	✓			2-28-13	1:09p	4	✓	✓	
MMW-P-10D	↓	↓			↓	1:56p	4	↓	↓	
MS	↓	↓			↓	9:53A	4	↓	↓	
MSD	↓	↓			↓	9:53A	4	↓	↓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[illegible]	Mundell	3-4-13	6:20p	[illegible]	[illegible]	[illegible]	[illegible]
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

NON-CONFORMANCE FORM

Microseeps Project Number: 8247

Date: 3-6-13 Time of Receipt 11 00 Receiver: HG

Client Mundell

REASON FOR NON-CONFORMANCE:

Mat have no date & time on vials.
Date & time taken from COC.

ACTION TAKEN:

Client name: Mark Breting Date: 3-8-13 Time:

No Further Action needed

Customer Service Initials: C.T. Date: 3-8-13

Cooler Receipt Form

Client Name: Mundell Project: MI Plaza Lab Work Order: 8247

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 7948 9148 7859

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: Wet (Blue) None Ice Intact: (Yes) Melted

Cooler Temperature: 6°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags				
Sample container labels match COC Sample name/date and time collected				
Sufficient volume provided				
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: HCG Date: 3-6-13

Project Manager Review: C.T. Date: 3-8-13

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March 22, 2013

Mark Breting
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MI PLAZA / M01046**
Microseeps Workorder: 8304

Dear Mark Breting:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, March 12, 2013. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 03/22/2013
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages ____

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 8304 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
83040001	MMW-P-12D	Water	3/9/2013 11:25	3/12/2013 11:00
83040002	MMW-P-04	Water	3/9/2013 12:00	3/12/2013 11:00
83040003	MMW-P-12S	Water	3/9/2013 10:23	3/12/2013 11:00
83040004	MMW-P-11DR	Water	3/6/2013 14:43	3/12/2013 11:00
83040005	MMW-P-11S	Water	3/6/2013 12:59	3/12/2013 11:00
83040006	MMW-C-01	Water	3/5/2013 12:39	3/12/2013 11:00
83040007	DUP2	Water	3/5/2013 00:00	3/12/2013 11:00

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ANALYTICAL RESULTS

Workorder: 8304 MI PLAZA / M01046

Lab ID: 83040001 Date Received: 3/12/2013 11:00 Matrix: Water
Sample ID: MMW-P-12D Date Collected: 3/9/2013 11:25

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.064J	mg/l	0.10	0.032	1			3/18/2013 21:58	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/18/2013 21:58	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/18/2013 21:58	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/18/2013 21:58	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/18/2013 21:58	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/18/2013 21:58	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/18/2013 21:58	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/18/2013 21:58	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/18/2013 21:58	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	23	ug/l	0.10	0.018	1			3/19/2013 14:23	BW	
Ethane	0.91	ug/l	0.025	0.0070	1			3/19/2013 14:23	BW	
Ethene	0.33	ug/l	0.025	0.0050	1			3/19/2013 14:23	BW	

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ANALYTICAL RESULTS

Workorder: 8304 MI PLAZA / M01046

Lab ID: 83040002 Date Received: 3/12/2013 11:00 Matrix: Water
Sample ID: MMW-P-04 Date Collected: 3/9/2013 12:00

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.13	mg/l	0.10	0.032	1			3/18/2013 22:40	KB	
Acetic Acid	18	mg/l	0.70	0.21	10			3/19/2013 11:18	KB	
Propionic Acid	16	mg/l	0.50	0.040	10			3/19/2013 11:18	KB	
Butyric Acid	3.3	mg/l	0.50	0.070	10			3/19/2013 11:18	KB	
Pyruvic Acid	0.42	mg/l	0.15	0.0040	1			3/18/2013 22:40	KB	
i-Pentanoic Acid	0.42	mg/l	0.15	0.012	1			3/18/2013 22:40	KB	
Pentanoic Acid	1.3	mg/l	0.070	0.010	1			3/18/2013 22:40	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/18/2013 22:40	KB	
Hexanoic Acid	2.2	mg/l	0.10	0.039	1			3/18/2013 22:40	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	18000	ug/l	0.10	0.018	1			3/19/2013 14:33	BW	
Ethane	0.47	ug/l	0.025	0.0070	1			3/19/2013 14:33	BW	
Ethene	5.4	ug/l	0.025	0.0050	1			3/19/2013 14:33	BW	

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ANALYTICAL RESULTS

Workorder: 8304 MI PLAZA / M01046

Lab ID: 83040003 Date Received: 3/12/2013 11:00 Matrix: Water
Sample ID: MMW-P-12S Date Collected: 3/9/2013 10:23

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.080J	mg/l	0.10	0.032	1			3/18/2013 23:22	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/18/2013 23:22	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/18/2013 23:22	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/18/2013 23:22	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/18/2013 23:22	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/18/2013 23:22	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/18/2013 23:22	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/18/2013 23:22	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/18/2013 23:22	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	19	ug/l	0.10	0.018	1			3/19/2013 14:44	BW	
Ethane	0.69	ug/l	0.025	0.0070	1			3/19/2013 14:44	BW	
Ethene	0.27	ug/l	0.025	0.0050	1			3/19/2013 14:44	BW	

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ANALYTICAL RESULTS

Workorder: 8304 MI PLAZA / M01046

Lab ID: 83040004 Date Received: 3/12/2013 11:00 Matrix: Water
Sample ID: MMW-P-11DR Date Collected: 3/6/2013 14:43

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.050J	mg/l	0.10	0.032	1			3/19/2013 00:04	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/19/2013 00:04	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/19/2013 00:04	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/19/2013 00:04	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/19/2013 00:04	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/19/2013 00:04	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/19/2013 00:04	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/19/2013 00:04	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/19/2013 00:04	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	1400	ug/l	0.10	0.018	1			3/19/2013 14:54	BW	
Ethane	1.3	ug/l	0.025	0.0070	1			3/19/2013 14:54	BW	
Ethene	12	ug/l	0.025	0.0050	1			3/19/2013 14:54	BW	

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ANALYTICAL RESULTS

Workorder: 8304 MI PLAZA / M01046

Lab ID: 83040005 Date Received: 3/12/2013 11:00 Matrix: Water
Sample ID: MMW-P-11S Date Collected: 3/6/2013 12:59

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.057J	mg/l	0.10	0.032	1			3/19/2013 00:46	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/19/2013 00:46	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/19/2013 00:46	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/19/2013 00:46	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/19/2013 00:46	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/19/2013 00:46	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/19/2013 00:46	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/19/2013 00:46	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/19/2013 00:46	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	1300	ug/l	0.10	0.018	1			3/19/2013 15:05	BW	
Ethane	0.16	ug/l	0.025	0.0070	1			3/19/2013 15:05	BW	
Ethene	1.2	ug/l	0.025	0.0050	1			3/19/2013 15:05	BW	

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ANALYTICAL RESULTS

Workorder: 8304 MI PLAZA / M01046

Lab ID: 83040006 Date Received: 3/12/2013 11:00 Matrix: Water
Sample ID: MMW-C-01 Date Collected: 3/5/2013 12:39

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.062J	mg/l	0.10	0.032	1			3/19/2013 01:28	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/19/2013 01:28	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/19/2013 01:28	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/19/2013 01:28	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/19/2013 01:28	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/19/2013 01:28	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/19/2013 01:28	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/19/2013 01:28	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/19/2013 01:28	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	8100	ug/l	0.10	0.018	1			3/19/2013 15:17	BW	
Ethane	0.15	ug/l	0.025	0.0070	1			3/19/2013 15:17	BW	
Ethene	0.56	ug/l	0.025	0.0050	1			3/19/2013 15:17	BW	

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ANALYTICAL RESULTS

Workorder: 8304 MI PLAZA / M01046

Lab ID: 83040007 Date Received: 3/12/2013 11:00 Matrix: Water
Sample ID: DUP2 Date Collected: 3/5/2013 00:00

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	0.049J	mg/l	0.10	0.032	1			3/19/2013 02:10	KB	
Acetic Acid	0.070 U	mg/l	0.070	0.021	1			3/19/2013 02:10	KB	
Propionic Acid	0.050 U	mg/l	0.050	0.0040	1			3/19/2013 02:10	KB	
Butyric Acid	0.050 U	mg/l	0.050	0.0070	1			3/19/2013 02:10	KB	
Pyruvic Acid	0.15 U	mg/l	0.15	0.0040	1			3/19/2013 02:10	KB	
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.012	1			3/19/2013 02:10	KB	
Pentanoic Acid	0.070 U	mg/l	0.070	0.010	1			3/19/2013 02:10	KB	
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.013	1			3/19/2013 02:10	KB	
Hexanoic Acid	0.10 U	mg/l	0.10	0.039	1			3/19/2013 02:10	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	20	ug/l	0.10	0.018	1			3/19/2013 15:28	BW	
Ethane	0.73	ug/l	0.025	0.0070	1			3/19/2013 15:28	BW	
Ethene	0.30	ug/l	0.025	0.0050	1			3/19/2013 15:28	BW	

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Fax. (412) 826-3433

ANALYTICAL RESULTS QUALIFIERS

Workorder: 8304 MI PLAZA / M01046

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).

Disclaimer: The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

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QUALITY CONTROL DATA

Workorder: 8304 MI PLAZA / M01046

QC Batch: DISG/2861 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 83040001, 83040002, 83040003, 83040004, 83040005, 83040006, 83040007

METHOD BLANK: 18824

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.10 U	0.10	
Ethane	ug/l	0.025 U	0.025	
Ethene	ug/l	0.025 U	0.025	

LABORATORY CONTROL SAMPLE & LCSD: 18825 18826

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	800	800	98	98	80-120	0	20	
Ethane	ug/l	42	43	43	104	103	80-120	0.97	20	
Ethene	ug/l	39	40	40	103	103	80-120	0	20	

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QUALITY CONTROL DATA

Workorder: 8304 MI PLAZA / M01046

QC Batch: EDON/1689 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 83040001, 83040002, 83040003, 83040004, 83040005, 83040006, 83040007

METHOD BLANK: 18833

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.10 U	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Butyric Acid	mg/l	0.050 U	0.050	
Pyruvic Acid	mg/l	0.15 U	0.15	
i-Pentanoic Acid	mg/l	0.15 U	0.15	
Pentanoic Acid	mg/l	0.070 U	0.070	
i-Hexanoic Acid	mg/l	0.050 U	0.050	
Hexanoic Acid	mg/l	0.10 U	0.10	

LABORATORY CONTROL SAMPLE: 18834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	98	70-130	
Acetic Acid	mg/l	2	2.0	98	70-130	
Propionic Acid	mg/l	2	1.9	97	70-130	
Butyric Acid	mg/l	2	1.9	94	70-130	
Pyruvic Acid	mg/l	2	1.9	97	70-130	
i-Pentanoic Acid	mg/l	2	1.8	91	70-130	
Pentanoic Acid	mg/l	2	1.9	93	70-130	
i-Hexanoic Acid	mg/l	2	1.8	89	70-130	
Hexanoic Acid	mg/l	2	1.6	82	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 18835 18836 Original: 82830003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0	2	2.2	2.2	112	111	70-130	0.9	30	
Acetic Acid	mg/l	1.6	2	3.6	3.6	100	100	70-130	0	30	
Propionic Acid	mg/l	0.082	2	2.3	2.3	112	109	70-130	2.7	30	

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QUALITY CONTROL DATA

Workorder: 8304 MI PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 18835 18836 Original: 82830003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Butyric Acid	mg/l	0	2	2.0	2.0	101	99	70-130	2	30	
Pyruvic Acid	mg/l	0	2	2.0	2.0	99	99	70-130	0	30	
i-Pentanoic Acid	mg/l	0	2	2.0	1.9	100	97	70-130	3	30	
Pentanoic Acid	mg/l	0	2	2.0	2.0	101	101	70-130	0	30	
i-Hexanoic Acid	mg/l	0	2	2.1	2.0	105	101	70-130	3.9	30	
Hexanoic Acid	mg/l	0	2	1.9	1.9	94	94	70-130	0	30	

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QUALITY CONTROL DATA

Workorder: 8304 MI PLAZA / M01046

QC Batch: EDON/1692 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 83040002

METHOD BLANK: 18875

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Butyric Acid	mg/l	0.050 U	0.050	

LABORATORY CONTROL SAMPLE: 18876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Acetic Acid	mg/l	2	2.0	100	70-130	
Propionic Acid	mg/l	2	2.0	99	70-130	
Butyric Acid	mg/l	2	1.9	95	70-130	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 8304 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
83040001	MMW-P-12D			AM20GAX	DISG/2861
83040002	MMW-P-04			AM20GAX	DISG/2861
83040003	MMW-P-12S			AM20GAX	DISG/2861
83040004	MMW-P-11DR			AM20GAX	DISG/2861
83040005	MMW-P-11S			AM20GAX	DISG/2861
83040006	MMW-C-01			AM20GAX	DISG/2861
83040007	DUP2			AM20GAX	DISG/2861
83040001	MMW-P-12D			AM23G	EDON/1689
83040002	MMW-P-04			AM23G	EDON/1689
83040003	MMW-P-12S			AM23G	EDON/1689
83040004	MMW-P-11DR			AM23G	EDON/1689
83040005	MMW-P-11S			AM23G	EDON/1689
83040006	MMW-C-01			AM23G	EDON/1689
83040007	DUP2			AM23G	EDON/1689
83040002	MMW-P-04			AM23G	EDON/1692

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Microseeps Lab. Proj. # 8304

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No.: (412) 826-3433

Company : Mundell & Assoc.
Co. Address : 110 S. Downey Ave Indpls, IN
Phone # : 317-630-9060 Fax # :
Proj. Manager : Mark Breting
Proj. Name/Number : MI Plaza / M01046
Sampler's signature :

Cooler Temp.

Results to :

Invoice to :

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# bottles	VFA AM237	MFE AM20GAX									Remarks :
MMW-P-12D	not 5	✓			3-9-13	11:25A	4	X	X									
MMW-P-04						12:00P	4											
MMW-P-12S						10:23A	4											
MMW-P-11DR					3-6-13	2:43P	4											
MMW-P-11S						12:59P	4											
MMW-C-01					3-5-13	12:39P	4											
DUP2							4		✓									
Trip Blank							2	✓										

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[illegible]	Mundell	3-11-13	11:00A	[illegible]	MTS	[illegible]	[illegible]
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

NON-CONFORMANCE FORM

Microseeps Project Number: 8304

Date: 3-12-13 Time of Receipt: 11:00 Receiver: LY

Client: Mundell

REASON FOR NON-CONFORMANCE:

TRIP BLANK: COC indicated a request of LLVFA for this but they were unpreserved.

ACTION TAKEN:

Client name: Mark Breting Date: 3-13-13 Time: E-mail

Please Disregard analysis for the Trip Blank Sample Per. Email.

Customer Service Initials: C.T. Date: 3-13-13

Cooler Receipt Form

Client Name: Mundell Project: MI Plaza / M 01046 Lab Work Order: 8304

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other:_____ Air bill Present: Yes No

Tracking Number: 7992 4506 0262

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other:_____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 4°C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers Intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: LY Date: 3-12-13

Project Manager Review: C.T. Date: 3-14-13

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(317)875-5894

March 19, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: Michigan Plaza M01046
Pace Project No.: 5077147

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077147001	MMW-10S-A (10-12')	Solid	03/06/13 10:25	03/07/13 11:05
5077147002	MMW-10S-A (34-36')	Solid	03/06/13 10:30	03/07/13 11:05
5077147003	SB-100 (8-10')	Solid	03/06/13 11:15	03/07/13 11:05
5077147004	SB-100 (32-33')	Solid	03/06/13 11:20	03/07/13 11:05
5077147005	SB-101 (14-16')	Solid	03/06/13 14:45	03/07/13 11:05
5077147006	SB-101 (26-28')	Solid	03/06/13 14:55	03/07/13 11:05
5077147007	SB-101 (40-42')	Solid	03/06/13 15:55	03/07/13 11:05
5077147008	MMW-9S-A (16-18')	Solid	03/06/13 16:55	03/07/13 11:05
5077147009	MMW-9S-A (32-34')	Solid	03/06/13 17:10	03/07/13 11:05
5077147010	Trip Blank	Water	03/06/13 08:00	03/07/13 11:05

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077147001	MMW-10S-A (10-12')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147002	MMW-10S-A (34-36')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147003	SB-100 (8-10')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147004	SB-100 (32-33')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147005	SB-101 (14-16')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147006	SB-101 (26-28')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147007	SB-101 (40-42')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147008	MMW-9S-A (16-18')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147009	MMW-9S-A (32-34')	EPA 8260	JLZ	73
		ASTM D2974-87	SLB	1
5077147010	Trip Blank	EPA 8260	JLZ	73

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-10S-A (10-12') **Lab ID: 5077147001** **Collected: 03/06/13 10:25** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	105	1		03/15/13 15:06	67-64-1	
Acrolein	ND	ug/kg	105	1		03/15/13 15:06	107-02-8	
Acrylonitrile	ND	ug/kg	105	1		03/15/13 15:06	107-13-1	
Benzene	ND	ug/kg	5.2	1		03/15/13 15:06	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		03/15/13 15:06	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		03/15/13 15:06	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		03/15/13 15:06	75-27-4	
Bromoform	ND	ug/kg	5.2	1		03/15/13 15:06	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		03/15/13 15:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.2	1		03/15/13 15:06	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		03/15/13 15:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		03/15/13 15:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		03/15/13 15:06	98-06-6	
Carbon disulfide	ND	ug/kg	10.5	1		03/15/13 15:06	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		03/15/13 15:06	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		03/15/13 15:06	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		03/15/13 15:06	75-00-3	
Chloroform	ND	ug/kg	5.2	1		03/15/13 15:06	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		03/15/13 15:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		03/15/13 15:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		03/15/13 15:06	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		03/15/13 15:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		03/15/13 15:06	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		03/15/13 15:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		03/15/13 15:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		03/15/13 15:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		03/15/13 15:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	105	1		03/15/13 15:06	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		03/15/13 15:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		03/15/13 15:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		03/15/13 15:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		03/15/13 15:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		03/15/13 15:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		03/15/13 15:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		03/15/13 15:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		03/15/13 15:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		03/15/13 15:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		03/15/13 15:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		03/15/13 15:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		03/15/13 15:06	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		03/15/13 15:06	100-41-4	
Ethyl methacrylate	ND	ug/kg	105	1		03/15/13 15:06	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		03/15/13 15:06	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		03/15/13 15:06	110-54-3	N2
2-Hexanone	ND	ug/kg	105	1		03/15/13 15:06	591-78-6	
Iodomethane	ND	ug/kg	105	1		03/15/13 15:06	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-10S-A (10-12') **Lab ID: 5077147001** **Collected: 03/06/13 10:25** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		03/15/13 15:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		03/15/13 15:06	99-87-6	
Methylene Chloride	ND	ug/kg	21.0	1		03/15/13 15:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.2	1		03/15/13 15:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		03/15/13 15:06	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		03/15/13 15:06	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		03/15/13 15:06	103-65-1	
Styrene	ND	ug/kg	5.2	1		03/15/13 15:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		03/15/13 15:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		03/15/13 15:06	79-34-5	
Tetrachloroethene	1640	ug/kg	484	100		03/19/13 00:35	127-18-4	
Toluene	ND	ug/kg	5.2	1		03/15/13 15:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		03/15/13 15:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		03/15/13 15:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		03/15/13 15:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		03/15/13 15:06	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		03/15/13 15:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		03/15/13 15:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		03/15/13 15:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		03/15/13 15:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		03/15/13 15:06	108-67-8	
Vinyl acetate	ND	ug/kg	105	1		03/15/13 15:06	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		03/15/13 15:06	75-01-4	
Xylene (Total)	ND	ug/kg	10.5	1		03/15/13 15:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		03/15/13 15:06	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		03/15/13 15:06	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	67-134	1		03/15/13 15:06	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	14.9	%	0.10	1		03/11/13 13:33		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-10S-A (34-36') **Lab ID: 5077147002** **Collected: 03/06/13 10:30** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	75.5	1		03/15/13 15:39	67-64-1	
Acrolein	ND	ug/kg	75.5	1		03/15/13 15:39	107-02-8	
Acrylonitrile	ND	ug/kg	75.5	1		03/15/13 15:39	107-13-1	
Benzene	ND	ug/kg	3.8	1		03/15/13 15:39	71-43-2	
Bromobenzene	ND	ug/kg	3.8	1		03/15/13 15:39	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1		03/15/13 15:39	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		03/15/13 15:39	75-27-4	
Bromoform	ND	ug/kg	3.8	1		03/15/13 15:39	75-25-2	
Bromomethane	ND	ug/kg	3.8	1		03/15/13 15:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.9	1		03/15/13 15:39	78-93-3	
n-Butylbenzene	ND	ug/kg	3.8	1		03/15/13 15:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.8	1		03/15/13 15:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1		03/15/13 15:39	98-06-6	
Carbon disulfide	ND	ug/kg	7.5	1		03/15/13 15:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.8	1		03/15/13 15:39	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		03/15/13 15:39	108-90-7	
Chloroethane	ND	ug/kg	3.8	1		03/15/13 15:39	75-00-3	
Chloroform	ND	ug/kg	3.8	1		03/15/13 15:39	67-66-3	
Chloromethane	ND	ug/kg	3.8	1		03/15/13 15:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.8	1		03/15/13 15:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1		03/15/13 15:39	106-43-4	
Dibromochloromethane	ND	ug/kg	3.8	1		03/15/13 15:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		03/15/13 15:39	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		03/15/13 15:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		03/15/13 15:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1		03/15/13 15:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		03/15/13 15:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	75.5	1		03/15/13 15:39	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.8	1		03/15/13 15:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.8	1		03/15/13 15:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		03/15/13 15:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		03/15/13 15:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		03/15/13 15:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		03/15/13 15:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		03/15/13 15:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.8	1		03/15/13 15:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.8	1		03/15/13 15:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.8	1		03/15/13 15:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		03/15/13 15:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		03/15/13 15:39	10061-02-6	
Ethylbenzene	ND	ug/kg	3.8	1		03/15/13 15:39	100-41-4	
Ethyl methacrylate	ND	ug/kg	75.5	1		03/15/13 15:39	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.8	1		03/15/13 15:39	87-68-3	
n-Hexane	ND	ug/kg	3.8	1		03/15/13 15:39	110-54-3	N2
2-Hexanone	ND	ug/kg	75.5	1		03/15/13 15:39	591-78-6	
Iodomethane	ND	ug/kg	75.5	1		03/15/13 15:39	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-10S-A (34-36') **Lab ID: 5077147002** Collected: 03/06/13 10:30 Received: 03/07/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.8	1		03/15/13 15:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.8	1		03/15/13 15:39	99-87-6	
Methylene Chloride	ND	ug/kg	15.1	1		03/15/13 15:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.9	1		03/15/13 15:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.8	1		03/15/13 15:39	1634-04-4	
Naphthalene	ND	ug/kg	3.8	1		03/15/13 15:39	91-20-3	
n-Propylbenzene	ND	ug/kg	3.8	1		03/15/13 15:39	103-65-1	
Styrene	ND	ug/kg	3.8	1		03/15/13 15:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		03/15/13 15:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		03/15/13 15:39	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		03/15/13 15:39	127-18-4	
Toluene	ND	ug/kg	3.8	1		03/15/13 15:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1		03/15/13 15:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1		03/15/13 15:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		03/15/13 15:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		03/15/13 15:39	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		03/15/13 15:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		03/15/13 15:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		03/15/13 15:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1		03/15/13 15:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.8	1		03/15/13 15:39	108-67-8	
Vinyl acetate	ND	ug/kg	75.5	1		03/15/13 15:39	108-05-4	
Vinyl chloride	25.6	ug/kg	3.8	1		03/15/13 15:39	75-01-4	
Xylene (Total)	ND	ug/kg	7.5	1		03/15/13 15:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		03/15/13 15:39	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		03/15/13 15:39	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	67-134	1		03/15/13 15:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	10.6	%	0.10	1		03/11/13 13:33		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-100 (8-10') **Lab ID: 5077147003** **Collected: 03/06/13 11:15** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	92.5	1		03/15/13 16:12	67-64-1	
Acrolein	ND	ug/kg	92.5	1		03/15/13 16:12	107-02-8	
Acrylonitrile	ND	ug/kg	92.5	1		03/15/13 16:12	107-13-1	
Benzene	ND	ug/kg	4.6	1		03/15/13 16:12	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		03/15/13 16:12	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		03/15/13 16:12	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		03/15/13 16:12	75-27-4	
Bromoform	ND	ug/kg	4.6	1		03/15/13 16:12	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		03/15/13 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.1	1		03/15/13 16:12	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		03/15/13 16:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		03/15/13 16:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		03/15/13 16:12	98-06-6	
Carbon disulfide	ND	ug/kg	9.2	1		03/15/13 16:12	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		03/15/13 16:12	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		03/15/13 16:12	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		03/15/13 16:12	75-00-3	
Chloroform	ND	ug/kg	4.6	1		03/15/13 16:12	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		03/15/13 16:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		03/15/13 16:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		03/15/13 16:12	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		03/15/13 16:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		03/15/13 16:12	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		03/15/13 16:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		03/15/13 16:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		03/15/13 16:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		03/15/13 16:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	92.5	1		03/15/13 16:12	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		03/15/13 16:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		03/15/13 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		03/15/13 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		03/15/13 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		03/15/13 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		03/15/13 16:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		03/15/13 16:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		03/15/13 16:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		03/15/13 16:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		03/15/13 16:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		03/15/13 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		03/15/13 16:12	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		03/15/13 16:12	100-41-4	
Ethyl methacrylate	ND	ug/kg	92.5	1		03/15/13 16:12	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		03/15/13 16:12	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		03/15/13 16:12	110-54-3	N2
2-Hexanone	ND	ug/kg	92.5	1		03/15/13 16:12	591-78-6	
Iodomethane	ND	ug/kg	92.5	1		03/15/13 16:12	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-100 (8-10') **Lab ID: 5077147003** **Collected: 03/06/13 11:15** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		03/15/13 16:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		03/15/13 16:12	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		03/15/13 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.1	1		03/15/13 16:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		03/15/13 16:12	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		03/15/13 16:12	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		03/15/13 16:12	103-65-1	
Styrene	ND	ug/kg	4.6	1		03/15/13 16:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		03/15/13 16:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		03/15/13 16:12	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		03/15/13 16:12	127-18-4	
Toluene	ND	ug/kg	4.6	1		03/15/13 16:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		03/15/13 16:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		03/15/13 16:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		03/15/13 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		03/15/13 16:12	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		03/15/13 16:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		03/15/13 16:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		03/15/13 16:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		03/15/13 16:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		03/15/13 16:12	108-67-8	
Vinyl acetate	ND	ug/kg	92.5	1		03/15/13 16:12	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		03/15/13 16:12	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		03/15/13 16:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	71-125	1		03/15/13 16:12	1868-53-7	
Toluene-d8 (S)	102	%.	76-124	1		03/15/13 16:12	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	67-134	1		03/15/13 16:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	11.7	%	0.10	1		03/11/13 13:33		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-100 (32-33') **Lab ID: 5077147004** **Collected: 03/06/13 11:20** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	73.8	1		03/15/13 16:45	67-64-1	
Acrolein	ND	ug/kg	73.8	1		03/15/13 16:45	107-02-8	
Acrylonitrile	ND	ug/kg	73.8	1		03/15/13 16:45	107-13-1	
Benzene	ND	ug/kg	3.7	1		03/15/13 16:45	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		03/15/13 16:45	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		03/15/13 16:45	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		03/15/13 16:45	75-27-4	
Bromoform	ND	ug/kg	3.7	1		03/15/13 16:45	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		03/15/13 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.4	1		03/15/13 16:45	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		03/15/13 16:45	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		03/15/13 16:45	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		03/15/13 16:45	98-06-6	
Carbon disulfide	ND	ug/kg	7.4	1		03/15/13 16:45	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		03/15/13 16:45	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		03/15/13 16:45	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		03/15/13 16:45	75-00-3	
Chloroform	ND	ug/kg	3.7	1		03/15/13 16:45	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		03/15/13 16:45	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		03/15/13 16:45	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		03/15/13 16:45	106-43-4	
Dibromochloromethane	ND	ug/kg	3.7	1		03/15/13 16:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		03/15/13 16:45	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		03/15/13 16:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		03/15/13 16:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		03/15/13 16:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		03/15/13 16:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	73.8	1		03/15/13 16:45	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		03/15/13 16:45	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		03/15/13 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		03/15/13 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		03/15/13 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		03/15/13 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		03/15/13 16:45	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		03/15/13 16:45	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		03/15/13 16:45	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		03/15/13 16:45	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		03/15/13 16:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		03/15/13 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		03/15/13 16:45	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		03/15/13 16:45	100-41-4	
Ethyl methacrylate	ND	ug/kg	73.8	1		03/15/13 16:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		03/15/13 16:45	87-68-3	
n-Hexane	ND	ug/kg	3.7	1		03/15/13 16:45	110-54-3	N2
2-Hexanone	ND	ug/kg	73.8	1		03/15/13 16:45	591-78-6	
Iodomethane	ND	ug/kg	73.8	1		03/15/13 16:45	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-100 (32-33') **Lab ID: 5077147004** Collected: 03/06/13 11:20 Received: 03/07/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		03/15/13 16:45	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		03/15/13 16:45	99-87-6	
Methylene Chloride	ND	ug/kg	14.8	1		03/15/13 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.4	1		03/15/13 16:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		03/15/13 16:45	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		03/15/13 16:45	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		03/15/13 16:45	103-65-1	
Styrene	ND	ug/kg	3.7	1		03/15/13 16:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		03/15/13 16:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		03/15/13 16:45	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		03/15/13 16:45	127-18-4	
Toluene	ND	ug/kg	3.7	1		03/15/13 16:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		03/15/13 16:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		03/15/13 16:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		03/15/13 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		03/15/13 16:45	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		03/15/13 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		03/15/13 16:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		03/15/13 16:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		03/15/13 16:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		03/15/13 16:45	108-67-8	
Vinyl acetate	ND	ug/kg	73.8	1		03/15/13 16:45	108-05-4	
Vinyl chloride	24.4	ug/kg	3.7	1		03/15/13 16:45	75-01-4	
Xylene (Total)	ND	ug/kg	7.4	1		03/15/13 16:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		03/15/13 16:45	1868-53-7	
Toluene-d8 (S)	103	%.	76-124	1		03/15/13 16:45	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	67-134	1		03/15/13 16:45	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	10.6	%	0.10	1		03/11/13 13:33		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-101 (14-16') **Lab ID: 5077147005** **Collected: 03/06/13 14:45** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	89.1	1		03/15/13 17:17	67-64-1	
Acrolein	ND	ug/kg	89.1	1		03/15/13 17:17	107-02-8	
Acrylonitrile	ND	ug/kg	89.1	1		03/15/13 17:17	107-13-1	
Benzene	ND	ug/kg	4.5	1		03/15/13 17:17	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		03/15/13 17:17	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		03/15/13 17:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		03/15/13 17:17	75-27-4	
Bromoform	ND	ug/kg	4.5	1		03/15/13 17:17	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		03/15/13 17:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.3	1		03/15/13 17:17	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		03/15/13 17:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		03/15/13 17:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		03/15/13 17:17	98-06-6	
Carbon disulfide	ND	ug/kg	8.9	1		03/15/13 17:17	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		03/15/13 17:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:17	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		03/15/13 17:17	75-00-3	
Chloroform	ND	ug/kg	4.5	1		03/15/13 17:17	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		03/15/13 17:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		03/15/13 17:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		03/15/13 17:17	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		03/15/13 17:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		03/15/13 17:17	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		03/15/13 17:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	89.1	1		03/15/13 17:17	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		03/15/13 17:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		03/15/13 17:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		03/15/13 17:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		03/15/13 17:17	75-35-4	
cis-1,2-Dichloroethene	36.3	ug/kg	4.5	1		03/15/13 17:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		03/15/13 17:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		03/15/13 17:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		03/15/13 17:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		03/15/13 17:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		03/15/13 17:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/15/13 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/15/13 17:17	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		03/15/13 17:17	100-41-4	
Ethyl methacrylate	ND	ug/kg	89.1	1		03/15/13 17:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		03/15/13 17:17	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		03/15/13 17:17	110-54-3	N2
2-Hexanone	ND	ug/kg	89.1	1		03/15/13 17:17	591-78-6	
Iodomethane	ND	ug/kg	89.1	1		03/15/13 17:17	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-101 (14-16') **Lab ID: 5077147005** **Collected: 03/06/13 14:45** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		03/15/13 17:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		03/15/13 17:17	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		03/15/13 17:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.3	1		03/15/13 17:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		03/15/13 17:17	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		03/15/13 17:17	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		03/15/13 17:17	103-65-1	
Styrene	ND	ug/kg	4.5	1		03/15/13 17:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/15/13 17:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/15/13 17:17	79-34-5	
Tetrachloroethene	37300	ug/kg	2140	500		03/19/13 12:37	127-18-4	
Toluene	ND	ug/kg	4.5	1		03/15/13 17:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		03/15/13 17:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		03/15/13 17:17	79-00-5	
Trichloroethene	70.8	ug/kg	4.5	1		03/15/13 17:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		03/15/13 17:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		03/15/13 17:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		03/15/13 17:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		03/15/13 17:17	108-67-8	
Vinyl acetate	ND	ug/kg	89.1	1		03/15/13 17:17	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		03/15/13 17:17	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		03/15/13 17:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	71-125	1		03/15/13 17:17	1868-53-7	
Toluene-d8 (S)	102	%.	76-124	1		03/15/13 17:17	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	67-134	1		03/15/13 17:17	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	15.9	%	0.10	1		03/11/13 13:33		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-101 (26-28') **Lab ID: 5077147006** **Collected: 03/06/13 14:55** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	90.3	1		03/15/13 17:50	67-64-1	
Acrolein	ND	ug/kg	90.3	1		03/15/13 17:50	107-02-8	
Acrylonitrile	ND	ug/kg	90.3	1		03/15/13 17:50	107-13-1	
Benzene	ND	ug/kg	4.5	1		03/15/13 17:50	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		03/15/13 17:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		03/15/13 17:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		03/15/13 17:50	75-27-4	
Bromoform	ND	ug/kg	4.5	1		03/15/13 17:50	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		03/15/13 17:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.6	1		03/15/13 17:50	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		03/15/13 17:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		03/15/13 17:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		03/15/13 17:50	98-06-6	
Carbon disulfide	ND	ug/kg	9.0	1		03/15/13 17:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		03/15/13 17:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:50	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		03/15/13 17:50	75-00-3	
Chloroform	ND	ug/kg	4.5	1		03/15/13 17:50	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		03/15/13 17:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		03/15/13 17:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		03/15/13 17:50	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		03/15/13 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		03/15/13 17:50	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		03/15/13 17:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	90.3	1		03/15/13 17:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		03/15/13 17:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		03/15/13 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		03/15/13 17:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		03/15/13 17:50	75-35-4	
cis-1,2-Dichloroethene	98.6	ug/kg	4.5	1		03/15/13 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		03/15/13 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		03/15/13 17:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		03/15/13 17:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		03/15/13 17:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		03/15/13 17:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/15/13 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/15/13 17:50	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		03/15/13 17:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	90.3	1		03/15/13 17:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		03/15/13 17:50	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		03/15/13 17:50	110-54-3	N2
2-Hexanone	ND	ug/kg	90.3	1		03/15/13 17:50	591-78-6	
Iodomethane	ND	ug/kg	90.3	1		03/15/13 17:50	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-101 (26-28') **Lab ID: 5077147006** **Collected: 03/06/13 14:55** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		03/15/13 17:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		03/15/13 17:50	99-87-6	
Methylene Chloride	ND	ug/kg	18.1	1		03/15/13 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.6	1		03/15/13 17:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		03/15/13 17:50	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		03/15/13 17:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		03/15/13 17:50	103-65-1	
Styrene	ND	ug/kg	4.5	1		03/15/13 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/15/13 17:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/15/13 17:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		03/15/13 17:50	127-18-4	
Toluene	ND	ug/kg	4.5	1		03/15/13 17:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		03/15/13 17:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		03/15/13 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		03/15/13 17:50	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		03/15/13 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		03/15/13 17:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		03/15/13 17:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		03/15/13 17:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		03/15/13 17:50	108-67-8	
Vinyl acetate	ND	ug/kg	90.3	1		03/15/13 17:50	108-05-4	
Vinyl chloride	34.5	ug/kg	4.5	1		03/15/13 17:50	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		03/15/13 17:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	71-125	1		03/15/13 17:50	1868-53-7	
Toluene-d8 (S)	104	%.	76-124	1		03/15/13 17:50	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	67-134	1		03/15/13 17:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	10.3	%	0.10	1		03/11/13 13:33		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-101 (40-42') **Lab ID: 5077147007** **Collected: 03/06/13 15:55** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	86.1	1		03/15/13 18:23	67-64-1	
Acrolein	ND	ug/kg	86.1	1		03/15/13 18:23	107-02-8	
Acrylonitrile	ND	ug/kg	86.1	1		03/15/13 18:23	107-13-1	
Benzene	ND	ug/kg	4.3	1		03/15/13 18:23	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		03/15/13 18:23	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		03/15/13 18:23	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		03/15/13 18:23	75-27-4	
Bromoform	ND	ug/kg	4.3	1		03/15/13 18:23	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		03/15/13 18:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.5	1		03/15/13 18:23	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		03/15/13 18:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		03/15/13 18:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		03/15/13 18:23	98-06-6	
Carbon disulfide	ND	ug/kg	8.6	1		03/15/13 18:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		03/15/13 18:23	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		03/15/13 18:23	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		03/15/13 18:23	75-00-3	
Chloroform	ND	ug/kg	4.3	1		03/15/13 18:23	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		03/15/13 18:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		03/15/13 18:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		03/15/13 18:23	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		03/15/13 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		03/15/13 18:23	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		03/15/13 18:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		03/15/13 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		03/15/13 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		03/15/13 18:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	86.1	1		03/15/13 18:23	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		03/15/13 18:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		03/15/13 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		03/15/13 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		03/15/13 18:23	75-35-4	
cis-1,2-Dichloroethene	79.6	ug/kg	4.3	1		03/15/13 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/15/13 18:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		03/15/13 18:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		03/15/13 18:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		03/15/13 18:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		03/15/13 18:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/15/13 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/15/13 18:23	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		03/15/13 18:23	100-41-4	
Ethyl methacrylate	ND	ug/kg	86.1	1		03/15/13 18:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		03/15/13 18:23	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		03/15/13 18:23	110-54-3	N2
2-Hexanone	ND	ug/kg	86.1	1		03/15/13 18:23	591-78-6	
Iodomethane	ND	ug/kg	86.1	1		03/15/13 18:23	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: SB-101 (40-42') **Lab ID: 5077147007** Collected: 03/06/13 15:55 Received: 03/07/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		03/15/13 18:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		03/15/13 18:23	99-87-6	
Methylene Chloride	ND	ug/kg	17.2	1		03/15/13 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.5	1		03/15/13 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		03/15/13 18:23	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		03/15/13 18:23	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		03/15/13 18:23	103-65-1	
Styrene	ND	ug/kg	4.3	1		03/15/13 18:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/15/13 18:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/15/13 18:23	79-34-5	
Tetrachloroethene	7.2	ug/kg	4.3	1		03/15/13 18:23	127-18-4	
Toluene	ND	ug/kg	4.3	1		03/15/13 18:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		03/15/13 18:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		03/15/13 18:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		03/15/13 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		03/15/13 18:23	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		03/15/13 18:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		03/15/13 18:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		03/15/13 18:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		03/15/13 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		03/15/13 18:23	108-67-8	
Vinyl acetate	ND	ug/kg	86.1	1		03/15/13 18:23	108-05-4	
Vinyl chloride	5.9	ug/kg	4.3	1		03/15/13 18:23	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		03/15/13 18:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	71-125	1		03/15/13 18:23	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		03/15/13 18:23	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	67-134	1		03/15/13 18:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	11.7	%	0.10	1		03/11/13 13:34		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-9S-A (16-18') **Lab ID: 5077147008** **Collected: 03/06/13 16:55** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	81.9	1		03/15/13 18:56	67-64-1	
Acrolein	ND	ug/kg	81.9	1		03/15/13 18:56	107-02-8	
Acrylonitrile	ND	ug/kg	81.9	1		03/15/13 18:56	107-13-1	
Benzene	ND	ug/kg	4.1	1		03/15/13 18:56	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		03/15/13 18:56	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		03/15/13 18:56	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		03/15/13 18:56	75-27-4	
Bromoform	ND	ug/kg	4.1	1		03/15/13 18:56	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		03/15/13 18:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.5	1		03/15/13 18:56	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		03/15/13 18:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		03/15/13 18:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		03/15/13 18:56	98-06-6	
Carbon disulfide	ND	ug/kg	8.2	1		03/15/13 18:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		03/15/13 18:56	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		03/15/13 18:56	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		03/15/13 18:56	75-00-3	
Chloroform	ND	ug/kg	4.1	1		03/15/13 18:56	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		03/15/13 18:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		03/15/13 18:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		03/15/13 18:56	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		03/15/13 18:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		03/15/13 18:56	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		03/15/13 18:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		03/15/13 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		03/15/13 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		03/15/13 18:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	81.9	1		03/15/13 18:56	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		03/15/13 18:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		03/15/13 18:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		03/15/13 18:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		03/15/13 18:56	75-35-4	
cis-1,2-Dichloroethene	**4020**	ug/kg	101	25		03/19/13 13:11	156-59-2	
trans-1,2-Dichloroethene	**16.1**	ug/kg	4.1	1		03/15/13 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		03/15/13 18:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		03/15/13 18:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		03/15/13 18:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		03/15/13 18:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		03/15/13 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		03/15/13 18:56	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		03/15/13 18:56	100-41-4	
Ethyl methacrylate	ND	ug/kg	81.9	1		03/15/13 18:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		03/15/13 18:56	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		03/15/13 18:56	110-54-3	N2
2-Hexanone	ND	ug/kg	81.9	1		03/15/13 18:56	591-78-6	
Iodomethane	ND	ug/kg	81.9	1		03/15/13 18:56	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-9S-A (16-18') **Lab ID: 5077147008** **Collected: 03/06/13 16:55** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		03/15/13 18:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		03/15/13 18:56	99-87-6	
Methylene Chloride	ND	ug/kg	16.4	1		03/15/13 18:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.5	1		03/15/13 18:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		03/15/13 18:56	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		03/15/13 18:56	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		03/15/13 18:56	103-65-1	
Styrene	ND	ug/kg	4.1	1		03/15/13 18:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		03/15/13 18:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		03/15/13 18:56	79-34-5	
Tetrachloroethene	43.9	ug/kg	4.1	1		03/15/13 18:56	127-18-4	
Toluene	ND	ug/kg	4.1	1		03/15/13 18:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		03/15/13 18:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		03/15/13 18:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		03/15/13 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		03/15/13 18:56	79-00-5	
Trichloroethene	5.1	ug/kg	4.1	1		03/15/13 18:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		03/15/13 18:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		03/15/13 18:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		03/15/13 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		03/15/13 18:56	108-67-8	
Vinyl acetate	ND	ug/kg	81.9	1		03/15/13 18:56	108-05-4	
Vinyl chloride	192	ug/kg	4.1	1		03/15/13 18:56	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		03/15/13 18:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	71-125	1		03/15/13 18:56	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		03/15/13 18:56	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	67-134	1		03/15/13 18:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	13.8	%	0.10	1		03/11/13 13:34		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-9S-A (32-34') **Lab ID: 5077147009** **Collected: 03/06/13 17:10** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	80.7	1		03/15/13 19:29	67-64-1	
Acrolein	ND	ug/kg	80.7	1		03/15/13 19:29	107-02-8	
Acrylonitrile	ND	ug/kg	80.7	1		03/15/13 19:29	107-13-1	
Benzene	ND	ug/kg	4.0	1		03/15/13 19:29	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		03/15/13 19:29	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		03/15/13 19:29	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		03/15/13 19:29	75-27-4	
Bromoform	ND	ug/kg	4.0	1		03/15/13 19:29	75-25-2	
Bromomethane	ND	ug/kg	4.0	1		03/15/13 19:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.2	1		03/15/13 19:29	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		03/15/13 19:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		03/15/13 19:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		03/15/13 19:29	98-06-6	
Carbon disulfide	ND	ug/kg	8.1	1		03/15/13 19:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	1		03/15/13 19:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		03/15/13 19:29	108-90-7	
Chloroethane	ND	ug/kg	4.0	1		03/15/13 19:29	75-00-3	
Chloroform	ND	ug/kg	4.0	1		03/15/13 19:29	67-66-3	
Chloromethane	ND	ug/kg	4.0	1		03/15/13 19:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		03/15/13 19:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		03/15/13 19:29	106-43-4	
Dibromochloromethane	ND	ug/kg	4.0	1		03/15/13 19:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		03/15/13 19:29	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		03/15/13 19:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		03/15/13 19:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		03/15/13 19:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		03/15/13 19:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	80.7	1		03/15/13 19:29	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.0	1		03/15/13 19:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		03/15/13 19:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		03/15/13 19:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		03/15/13 19:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		03/15/13 19:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		03/15/13 19:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		03/15/13 19:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		03/15/13 19:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		03/15/13 19:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		03/15/13 19:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		03/15/13 19:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		03/15/13 19:29	10061-02-6	
Ethylbenzene	ND	ug/kg	4.0	1		03/15/13 19:29	100-41-4	
Ethyl methacrylate	ND	ug/kg	80.7	1		03/15/13 19:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		03/15/13 19:29	87-68-3	
n-Hexane	ND	ug/kg	4.0	1		03/15/13 19:29	110-54-3	N2
2-Hexanone	ND	ug/kg	80.7	1		03/15/13 19:29	591-78-6	
Iodomethane	ND	ug/kg	80.7	1		03/15/13 19:29	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: MMW-9S-A (32-34') **Lab ID: 5077147009** **Collected: 03/06/13 17:10** **Received: 03/07/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		03/15/13 19:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		03/15/13 19:29	99-87-6	
Methylene Chloride	ND	ug/kg	16.1	1		03/15/13 19:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.2	1		03/15/13 19:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		03/15/13 19:29	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		03/15/13 19:29	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		03/15/13 19:29	103-65-1	
Styrene	ND	ug/kg	4.0	1		03/15/13 19:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		03/15/13 19:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		03/15/13 19:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		03/15/13 19:29	127-18-4	
Toluene	ND	ug/kg	4.0	1		03/15/13 19:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		03/15/13 19:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		03/15/13 19:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		03/15/13 19:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		03/15/13 19:29	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		03/15/13 19:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		03/15/13 19:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		03/15/13 19:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		03/15/13 19:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		03/15/13 19:29	108-67-8	
Vinyl acetate	ND	ug/kg	80.7	1		03/15/13 19:29	108-05-4	
Vinyl chloride	6.6	ug/kg	4.0	1		03/15/13 19:29	75-01-4	
Xylene (Total)	ND	ug/kg	8.1	1		03/15/13 19:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	71-125	1		03/15/13 19:29	1868-53-7	
Toluene-d8 (S)	98	%.	76-124	1		03/15/13 19:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	67-134	1		03/15/13 19:29	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	7.7	%	0.10	1		03/11/13 13:34		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: Trip Blank Lab ID: 5077147010 Collected: 03/06/13 08:00 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/16/13 02:21	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/16/13 02:21	107-02-8	
Acrylonitrile	ND	ug/L	100	1		03/16/13 02:21	107-13-1	
Benzene	ND	ug/L	5.0	1		03/16/13 02:21	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/16/13 02:21	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/16/13 02:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/16/13 02:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/16/13 02:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/13 02:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/16/13 02:21	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/16/13 02:21	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/16/13 02:21	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/16/13 02:21	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/16/13 02:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 02:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/16/13 02:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/16/13 02:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/16/13 02:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/16/13 02:21	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/16/13 02:21	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/16/13 02:21	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/16/13 02:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/16/13 02:21	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		03/16/13 02:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/16/13 02:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/16/13 02:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/16/13 02:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/16/13 02:21	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/16/13 02:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/16/13 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/16/13 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 02:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 02:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/16/13 02:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/16/13 02:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/16/13 02:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/16/13 02:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/16/13 02:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/16/13 02:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 02:21	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/16/13 02:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/16/13 02:21	87-68-3	
n-Hexane	ND	ug/L	5.0	1		03/16/13 02:21	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		03/16/13 02:21	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/16/13 02:21	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/16/13 02:21	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Sample: Trip Blank Lab ID: 5077147010 Collected: 03/06/13 08:00 Received: 03/07/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		03/16/13 02:21	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 02:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/16/13 02:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/16/13 02:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		03/16/13 02:21	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		03/16/13 02:21	103-65-1	
Styrene	ND	ug/L	5.0	1		03/16/13 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/16/13 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/16/13 02:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/16/13 02:21	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 02:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/16/13 02:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/16/13 02:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 02:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/16/13 02:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 02:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/16/13 02:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/16/13 02:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/16/13 02:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/16/13 02:21	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/16/13 02:21	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/16/13 02:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 02:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		03/16/13 02:21	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		03/16/13 02:21	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		03/16/13 02:21	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

QC Batch: MSV/51299 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5077147010

METHOD BLANK: 885569 | Matrix: Water
Associated Lab Samples: 5077147010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/16/13 01:49	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/16/13 01:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/16/13 01:49	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/16/13 01:49	
1,1-Dichloroethane	ug/L	ND	5.0	03/16/13 01:49	
1,1-Dichloroethene	ug/L	ND	5.0	03/16/13 01:49	
1,1-Dichloropropene	ug/L	ND	5.0	03/16/13 01:49	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/16/13 01:49	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/16/13 01:49	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/16/13 01:49	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/16/13 01:49	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/16/13 01:49	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/16/13 01:49	
1,2-Dichloroethane	ug/L	ND	5.0	03/16/13 01:49	
1,2-Dichloropropane	ug/L	ND	5.0	03/16/13 01:49	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/16/13 01:49	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/16/13 01:49	
1,3-Dichloropropane	ug/L	ND	5.0	03/16/13 01:49	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/16/13 01:49	
2,2-Dichloropropane	ug/L	ND	5.0	03/16/13 01:49	
2-Butanone (MEK)	ug/L	ND	25.0	03/16/13 01:49	
2-Chlorotoluene	ug/L	ND	5.0	03/16/13 01:49	
2-Hexanone	ug/L	ND	25.0	03/16/13 01:49	
4-Chlorotoluene	ug/L	ND	5.0	03/16/13 01:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/16/13 01:49	
Acetone	ug/L	ND	100	03/16/13 01:49	
Acrolein	ug/L	ND	50.0	03/16/13 01:49	
Acrylonitrile	ug/L	ND	100	03/16/13 01:49	
Benzene	ug/L	ND	5.0	03/16/13 01:49	
Bromobenzene	ug/L	ND	5.0	03/16/13 01:49	
Bromochloromethane	ug/L	ND	5.0	03/16/13 01:49	
Bromodichloromethane	ug/L	ND	5.0	03/16/13 01:49	
Bromoform	ug/L	ND	5.0	03/16/13 01:49	
Bromomethane	ug/L	ND	5.0	03/16/13 01:49	
Carbon disulfide	ug/L	ND	10.0	03/16/13 01:49	
Carbon tetrachloride	ug/L	ND	5.0	03/16/13 01:49	
Chlorobenzene	ug/L	ND	5.0	03/16/13 01:49	
Chloroethane	ug/L	ND	5.0	03/16/13 01:49	
Chloroform	ug/L	ND	5.0	03/16/13 01:49	
Chloromethane	ug/L	ND	5.0	03/16/13 01:49	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 01:49	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/16/13 01:49	
Dibromochloromethane	ug/L	ND	5.0	03/16/13 01:49	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

METHOD BLANK: 885569 Matrix: Water

Associated Lab Samples: 5077147010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	03/16/13 01:49	
Dichlorodifluoromethane	ug/L	ND	5.0	03/16/13 01:49	
Ethyl methacrylate	ug/L	ND	100	03/16/13 01:49	
Ethylbenzene	ug/L	ND	5.0	03/16/13 01:49	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/16/13 01:49	
Iodomethane	ug/L	ND	10.0	03/16/13 01:49	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/16/13 01:49	
Methyl-tert-butyl ether	ug/L	ND	4.0	03/16/13 01:49	
Methylene Chloride	ug/L	ND	5.0	03/16/13 01:49	
n-Butylbenzene	ug/L	ND	5.0	03/16/13 01:49	
n-Hexane	ug/L	ND	5.0	03/16/13 01:49	N2
n-Propylbenzene	ug/L	ND	5.0	03/16/13 01:49	
Naphthalene	ug/L	ND	5.0	03/16/13 01:49	
p-Isopropyltoluene	ug/L	ND	5.0	03/16/13 01:49	
sec-Butylbenzene	ug/L	ND	5.0	03/16/13 01:49	
Styrene	ug/L	ND	5.0	03/16/13 01:49	
tert-Butylbenzene	ug/L	ND	5.0	03/16/13 01:49	
Tetrachloroethene	ug/L	ND	5.0	03/16/13 01:49	
Toluene	ug/L	ND	5.0	03/16/13 01:49	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 01:49	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/16/13 01:49	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/16/13 01:49	
Trichloroethene	ug/L	ND	5.0	03/16/13 01:49	
Trichlorofluoromethane	ug/L	ND	5.0	03/16/13 01:49	
Vinyl acetate	ug/L	ND	50.0	03/16/13 01:49	
Vinyl chloride	ug/L	ND	2.0	03/16/13 01:49	
Xylene (Total)	ug/L	ND	10.0	03/16/13 01:49	
4-Bromofluorobenzene (S)	%.	97	72-125	03/16/13 01:49	
Dibromofluoromethane (S)	%.	93	83-123	03/16/13 01:49	
Toluene-d8 (S)	%.	99	81-114	03/16/13 01:49	

LABORATORY CONTROL SAMPLE: 885570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	41.2	82	69-122	
1,1,1-Trichloroethane	ug/L	50	47.6	95	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	68-134	
1,1,2-Trichloroethane	ug/L	50	53.2	106	77-129	
1,1-Dichloroethane	ug/L	50	55.8	112	70-127	
1,1-Dichloroethene	ug/L	50	51.4	103	75-145	
1,1-Dichloropropene	ug/L	50	56.2	112	75-126	
1,2,3-Trichlorobenzene	ug/L	50	48.9	98	63-130	
1,2,3-Trichloropropane	ug/L	50	50.5	101	45-121	
1,2,4-Trichlorobenzene	ug/L	50	48.4	97	64-122	
1,2,4-Trimethylbenzene	ug/L	50	52.7	105	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

LABORATORY CONTROL SAMPLE: 885570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	48.8	98	77-123	
1,2-Dichlorobenzene	ug/L	50	50.8	102	74-123	
1,2-Dichloroethane	ug/L	50	58.2	116	71-127	
1,2-Dichloropropane	ug/L	50	57.5	115	75-126	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	69-129	
1,3-Dichlorobenzene	ug/L	50	50.5	101	76-123	
1,3-Dichloropropane	ug/L	50	53.3	107	77-126	
1,4-Dichlorobenzene	ug/L	50	50.6	101	77-121	
2,2-Dichloropropane	ug/L	50	45.6	91	45-138	
2-Butanone (MEK)	ug/L	250	279	112	42-177	
2-Chlorotoluene	ug/L	50	54.3	109	74-129	
2-Hexanone	ug/L	250	258	103	57-162	
4-Chlorotoluene	ug/L	50	51.5	103	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	292	117	64-135	
Acetone	ug/L	250	272	109	10-200	
Acrolein	ug/L	1000	1400	140	10-200	
Acrylonitrile	ug/L	1000	1070	107	59-144	
Benzene	ug/L	50	54.3	109	76-123	
Bromobenzene	ug/L	50	55.0	110	67-130	
Bromochloromethane	ug/L	50	64.8	130	58-153	
Bromodichloromethane	ug/L	50	45.7	91	71-124	
Bromoform	ug/L	50	37.3	75	64-116	
Bromomethane	ug/L	50	61.5	123	23-197	
Carbon disulfide	ug/L	100	105	105	55-146	
Carbon tetrachloride	ug/L	50	41.2	82	65-125	
Chlorobenzene	ug/L	50	52.0	104	78-120	
Chloroethane	ug/L	50	51.7	103	56-163	
Chloroform	ug/L	50	59.4	119	73-122	
Chloromethane	ug/L	50	59.4	119	46-146	
cis-1,2-Dichloroethene	ug/L	50	51.8	104	79-129	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	66-123	
Dibromochloromethane	ug/L	50	39.9	80	70-123	
Dibromomethane	ug/L	50	53.8	108	73-123	
Dichlorodifluoromethane	ug/L	50	74.3	149	19-200	
Ethyl methacrylate	ug/L	200	191	96	70-127	
Ethylbenzene	ug/L	50	53.9	108	75-120	
Hexachloro-1,3-butadiene	ug/L	50	49.2	98	64-131	
Iodomethane	ug/L	100	163	163	16-181	
Isopropylbenzene (Cumene)	ug/L	50	55.8	112	73-123	
Methyl-tert-butyl ether	ug/L	100	110	110	66-128	
Methylene Chloride	ug/L	50	43.0	86	61-138	
n-Butylbenzene	ug/L	50	52.6	105	69-130	
n-Hexane	ug/L	50	55.5	111	67-142	N2
n-Propylbenzene	ug/L	50	55.0	110	71-132	
Naphthalene	ug/L	50	48.8	98	62-130	
p-Isopropyltoluene	ug/L	50	54.4	109	71-126	
sec-Butylbenzene	ug/L	50	56.6	113	69-130	
Styrene	ug/L	50	55.5	111	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

LABORATORY CONTROL SAMPLE: 885570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	41.8	84	49-114	
Tetrachloroethene	ug/L	50	53.0	106	57-125	
Toluene	ug/L	50	52.9	106	72-124	
trans-1,2-Dichloroethene	ug/L	50	55.0	110	71-145	
trans-1,3-Dichloropropene	ug/L	50	43.4	87	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	157	78	50-121	
Trichloroethene	ug/L	50	59.9	120	77-122	
Trichlorofluoromethane	ug/L	50	51.8	104	56-159	
Vinyl acetate	ug/L	200	119	60	27-119	
Vinyl chloride	ug/L	50	53.7	107	61-146	
Xylene (Total)	ug/L	150	160	107	72-126	
4-Bromofluorobenzene (S)	%.			102	72-125	
Dibromofluoromethane (S)	%.			98	83-123	
Toluene-d8 (S)	%.			98	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

QC Batch: MSV/51294 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5077147001, 5077147002, 5077147003, 5077147004, 5077147005, 5077147006, 5077147007, 5077147008, 5077147009

METHOD BLANK: 885550 Matrix: Solid
Associated Lab Samples: 5077147001, 5077147002, 5077147003, 5077147004, 5077147005, 5077147006, 5077147007, 5077147008, 5077147009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	03/15/13 13:28	
1,1,1-Trichloroethane	ug/kg	ND	5.0	03/15/13 13:28	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	03/15/13 13:28	
1,1,2-Trichloroethane	ug/kg	ND	5.0	03/15/13 13:28	
1,1-Dichloroethane	ug/kg	ND	5.0	03/15/13 13:28	
1,1-Dichloroethene	ug/kg	ND	5.0	03/15/13 13:28	
1,1-Dichloropropene	ug/kg	ND	5.0	03/15/13 13:28	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	03/15/13 13:28	
1,2,3-Trichloropropane	ug/kg	ND	5.0	03/15/13 13:28	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	03/15/13 13:28	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/15/13 13:28	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	03/15/13 13:28	
1,2-Dichlorobenzene	ug/kg	ND	5.0	03/15/13 13:28	
1,2-Dichloroethane	ug/kg	ND	5.0	03/15/13 13:28	
1,2-Dichloropropane	ug/kg	ND	5.0	03/15/13 13:28	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/15/13 13:28	
1,3-Dichlorobenzene	ug/kg	ND	5.0	03/15/13 13:28	
1,3-Dichloropropane	ug/kg	ND	5.0	03/15/13 13:28	
1,4-Dichlorobenzene	ug/kg	ND	5.0	03/15/13 13:28	
2,2-Dichloropropane	ug/kg	ND	5.0	03/15/13 13:28	
2-Butanone (MEK)	ug/kg	ND	25.0	03/15/13 13:28	
2-Chlorotoluene	ug/kg	ND	5.0	03/15/13 13:28	
2-Hexanone	ug/kg	ND	100	03/15/13 13:28	
4-Chlorotoluene	ug/kg	ND	5.0	03/15/13 13:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	03/15/13 13:28	
Acetone	ug/kg	ND	100	03/15/13 13:28	
Acrolein	ug/kg	ND	100	03/15/13 13:28	
Acrylonitrile	ug/kg	ND	100	03/15/13 13:28	
Benzene	ug/kg	ND	5.0	03/15/13 13:28	
Bromobenzene	ug/kg	ND	5.0	03/15/13 13:28	
Bromochloromethane	ug/kg	ND	5.0	03/15/13 13:28	
Bromodichloromethane	ug/kg	ND	5.0	03/15/13 13:28	
Bromoform	ug/kg	ND	5.0	03/15/13 13:28	
Bromomethane	ug/kg	ND	5.0	03/15/13 13:28	
Carbon disulfide	ug/kg	ND	10.0	03/15/13 13:28	
Carbon tetrachloride	ug/kg	ND	5.0	03/15/13 13:28	
Chlorobenzene	ug/kg	ND	5.0	03/15/13 13:28	
Chloroethane	ug/kg	ND	5.0	03/15/13 13:28	
Chloroform	ug/kg	ND	5.0	03/15/13 13:28	
Chloromethane	ug/kg	ND	5.0	03/15/13 13:28	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	03/15/13 13:28	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

METHOD BLANK: 885550 Matrix: Solid

Associated Lab Samples: 5077147001, 5077147002, 5077147003, 5077147004, 5077147005, 5077147006, 5077147007, 5077147008, 5077147009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	03/15/13 13:28	
Dibromochloromethane	ug/kg	ND	5.0	03/15/13 13:28	
Dibromomethane	ug/kg	ND	5.0	03/15/13 13:28	
Dichlorodifluoromethane	ug/kg	ND	5.0	03/15/13 13:28	
Ethyl methacrylate	ug/kg	ND	100	03/15/13 13:28	
Ethylbenzene	ug/kg	ND	5.0	03/15/13 13:28	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	03/15/13 13:28	
Iodomethane	ug/kg	ND	100	03/15/13 13:28	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/15/13 13:28	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/15/13 13:28	
Methylene Chloride	ug/kg	ND	20.0	03/15/13 13:28	
n-Butylbenzene	ug/kg	ND	5.0	03/15/13 13:28	
n-Hexane	ug/kg	ND	5.0	03/15/13 13:28	N2
n-Propylbenzene	ug/kg	ND	5.0	03/15/13 13:28	
Naphthalene	ug/kg	ND	5.0	03/15/13 13:28	
p-Isopropyltoluene	ug/kg	ND	5.0	03/15/13 13:28	
sec-Butylbenzene	ug/kg	ND	5.0	03/15/13 13:28	
Styrene	ug/kg	ND	5.0	03/15/13 13:28	
tert-Butylbenzene	ug/kg	ND	5.0	03/15/13 13:28	
Tetrachloroethene	ug/kg	ND	5.0	03/15/13 13:28	
Toluene	ug/kg	ND	5.0	03/15/13 13:28	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	03/15/13 13:28	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	03/15/13 13:28	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	03/15/13 13:28	
Trichloroethene	ug/kg	ND	5.0	03/15/13 13:28	
Trichlorofluoromethane	ug/kg	ND	5.0	03/15/13 13:28	
Vinyl acetate	ug/kg	ND	100	03/15/13 13:28	
Vinyl chloride	ug/kg	ND	5.0	03/15/13 13:28	
Xylene (Total)	ug/kg	ND	10.0	03/15/13 13:28	
4-Bromofluorobenzene (S)	%.	97	67-134	03/15/13 13:28	
Dibromofluoromethane (S)	%.	92	71-125	03/15/13 13:28	
Toluene-d8 (S)	%.	99	76-124	03/15/13 13:28	

LABORATORY CONTROL SAMPLE: 885551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	38.0	76	68-125	
1,1,1-Trichloroethane	ug/kg	50	43.8	88	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	49.5	99	73-123	
1,1,2-Trichloroethane	ug/kg	50	54.7	109	70-124	
1,1-Dichloroethane	ug/kg	50	51.6	103	63-122	
1,1-Dichloroethene	ug/kg	50	45.7	91	71-129	
1,1-Dichloropropene	ug/kg	50	48.8	98	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	47.9	96	68-123	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

LABORATORY CONTROL SAMPLE: 885551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	50.9	102	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	50.7	101	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	51.0	102	69-120	
1,2-Dibromoethane (EDB)	ug/kg	50	46.9	94	67-121	
1,2-Dichlorobenzene	ug/kg	50	48.9	98	71-121	
1,2-Dichloroethane	ug/kg	50	54.4	109	74-120	
1,2-Dichloropropane	ug/kg	50	54.6	109	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	50.8	102	64-119	
1,3-Dichlorobenzene	ug/kg	50	49.0	98	70-122	
1,3-Dichloropropane	ug/kg	50	51.3	103	68-118	
1,4-Dichlorobenzene	ug/kg	50	49.3	99	71-118	
2,2-Dichloropropane	ug/kg	50	46.2	92	62-119	
2-Butanone (MEK)	ug/kg	250	267	107	38-154	
2-Chlorotoluene	ug/kg	50	52.0	104	71-120	
2-Hexanone	ug/kg	250	262	105	50-134	
4-Chlorotoluene	ug/kg	50	50.6	101	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	259	103	66-122	
Acetone	ug/kg	250	270	108	10-200	
Acrolein	ug/kg	1000	1470	147	11-200	
Acrylonitrile	ug/kg	1000	1010	101	66-120	
Benzene	ug/kg	50	50.4	101	73-115	
Bromobenzene	ug/kg	50	54.0	108	64-130	
Bromochloromethane	ug/kg	50	52.3	105	71-127	
Bromodichloromethane	ug/kg	50	41.8	84	60-121	
Bromoform	ug/kg	50	31.5	63	44-130	
Bromomethane	ug/kg	50	53.0	106	48-175	
Carbon disulfide	ug/kg	100	93.9	94	71-126	
Carbon tetrachloride	ug/kg	50	36.8	74	57-127	
Chlorobenzene	ug/kg	50	49.9	100	72-121	
Chloroethane	ug/kg	50	56.2	112	72-141	
Chloroform	ug/kg	50	53.9	108	74-114	
Chloromethane	ug/kg	50	44.4	89	51-126	
cis-1,2-Dichloroethene	ug/kg	50	48.0	96	72-115	
cis-1,3-Dichloropropene	ug/kg	50	43.1	86	64-115	
Dibromochloromethane	ug/kg	50	35.6	71	58-114	
Dibromomethane	ug/kg	50	46.9	94	73-120	
Dichlorodifluoromethane	ug/kg	50	74.8	150	32-167	
Ethyl methacrylate	ug/kg	200	195	98	65-117	
Ethylbenzene	ug/kg	50	50.2	100	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	46.2	92	65-121	
Iodomethane	ug/kg	100	128	128	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	51.8	104	74-123	
Methyl-tert-butyl ether	ug/kg	100	110	110	69-123	
Methylene Chloride	ug/kg	50	41.7	83	58-124	
n-Butylbenzene	ug/kg	50	51.9	104	71-118	
n-Hexane	ug/kg	50	50.9	102	50-106	N2
n-Propylbenzene	ug/kg	50	52.4	105	70-120	
Naphthalene	ug/kg	50	49.3	99	67-124	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

LABORATORY CONTROL SAMPLE: 885551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/kg	50	51.6	103	71-123	
sec-Butylbenzene	ug/kg	50	53.4	107	66-122	
Styrene	ug/kg	50	47.3	95	75-118	
tert-Butylbenzene	ug/kg	50	42.5	85	54-124	
Tetrachloroethene	ug/kg	50	50.4	101	66-126	
Toluene	ug/kg	50	48.7	97	69-115	
trans-1,2-Dichloroethene	ug/kg	50	49.5	99	69-120	
trans-1,3-Dichloropropene	ug/kg	50	41.6	83	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	177	88	59-130	
Trichloroethene	ug/kg	50	55.2	110	71-117	
Trichlorofluoromethane	ug/kg	50	55.5	111	67-138	
Vinyl acetate	ug/kg	200	115	58	35-134	
Vinyl chloride	ug/kg	50	56.5	113	64-127	
Xylene (Total)	ug/kg	150	151	101	69-117	
4-Bromofluorobenzene (S)	%.			103	67-134	
Dibromofluoromethane (S)	%.			97	71-125	
Toluene-d8 (S)	%.			97	76-124	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5077147

QC Batch: PMST/8040 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5077147001, 5077147002, 5077147003, 5077147004, 5077147005, 5077147006, 5077147007, 5077147008, 5077147009

SAMPLE DUPLICATE: 882730

Parameter	Units	5077258026 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.2	17.7	3	5	

SAMPLE DUPLICATE: 882752

Parameter	Units	5077154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.6	9.1	5	5	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5077147

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5077147

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077147010	Trip Blank	EPA 8260	MSV/51299		
5077147001	MMW-10S-A (10-12')	EPA 8260	MSV/51294		
5077147002	MMW-10S-A (34-36')	EPA 8260	MSV/51294		
5077147003	SB-100 (8-10')	EPA 8260	MSV/51294		
5077147004	SB-100 (32-33')	EPA 8260	MSV/51294		
5077147005	SB-101 (14-16')	EPA 8260	MSV/51294		
5077147006	SB-101 (26-28')	EPA 8260	MSV/51294		
5077147007	SB-101 (40-42')	EPA 8260	MSV/51294		
5077147008	MMW-9S-A (16-18')	EPA 8260	MSV/51294		
5077147009	MMW-9S-A (32-34')	EPA 8260	MSV/51294		
5077147001	MMW-10S-A (10-12')	ASTM D2974-87	PMST/8040		
5077147002	MMW-10S-A (34-36')	ASTM D2974-87	PMST/8040		
5077147003	SB-100 (8-10')	ASTM D2974-87	PMST/8040		
5077147004	SB-100 (32-33')	ASTM D2974-87	PMST/8040		
5077147005	SB-101 (14-16')	ASTM D2974-87	PMST/8040		
5077147006	SB-101 (26-28')	ASTM D2974-87	PMST/8040		
5077147007	SB-101 (40-42')	ASTM D2974-87	PMST/8040		
5077147008	MMW-9S-A (16-18')	ASTM D2974-87	PMST/8040		
5077147009	MMW-9S-A (32-34')	ASTM D2974-87	PMST/8040		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1558176

Section A Required Client Information:
Company: Mundell & Assoc. Inc
Address: 110 S. Downey Ave
Indpls IN 46219
Email To: mbeting@mundellassociates.com
Phone: 317 638 9064 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: Mark Beting
Copy To: John Mundell
Purchase Order No.:
Project Name: Michigan Plaza Soil Borings
Project Number: M01046

Section C Invoice Information:
Attention: Mark Tebbe
Company Name: See Sec. A
Address:
Pace Quote Reference:
Pace Project Manager: Tina Sayer
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER VRP

Site Location STATE: IN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: VOCs (8260)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-105-A (10-12')	SL	G			3/6/13	10:25		4	1						1	2		507147-001
2	MMW-105-A (34-36')						10:30												-002
3	SB-100 (8-10')						11:15												-003
4	SB-100 (32-33')						11:20												-004
5	SB-101 (14-16')						14:45												-005
6	SB-101 (26-28')						14:55												-006
7	SB-101 (40-42')						15:55												-007
8	MMW-95-A (16-18')						16:55												-008
9	MMW-95-A (32-34')						17:10												-009
10	Trip Blank	OT	G			3/6/13	08:00		3							1	2		-010
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Mark Beting / Mundell	3/7/13	1105	[illegible]	3/7/13	1105

SAMPLE CONDITIONS: Temp in °C: 3.1; Received on Ice (Y/N): Y; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N): Y

ORIGINAL

W/PACE Del
[illegible] 3/7/13

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Mark Beting / Robert Hebard
SIGNATURE of SAMPLER: Mark Beting
DATE Signed (MM/DD/YY): 3/6/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Reference 28 Page 322

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell Project # 5077147

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer 3/7/13/1224

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Ice/plastic Holder

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 3.1°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and initials of person examining contents: 3/7/13 RCH

				Comments:
Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No	☐ N/A	5. TC Kits
Rush Turn Around Time Requested:	☐ Yes	☒ No	☐ N/A	6.
Containers Intact:	☒ Yes	☐ No	☐ N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒ Yes	☐ No	☐ N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐ Yes	☐ No	☒ N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☒ N/A	
Headspace in VOA Vials (>6mm)	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present:	☒ Yes	☐ No	☐ N/A	11. TC Kit
Trip Blank Custody Seals Present	☐ Yes	☒ No	☐ N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	12.
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	13.
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [signature] Date: 3/7/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1

COC ID# 1558176

Project # 5077147

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1					4											
2																
3																
4																
5																
6																
7																
8																
9																
10					3											
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

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March 20, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077222

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077222

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077222

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077222001	MMW-14D-A (44-46')	Solid	03/07/13 12:25	03/08/13 11:05
5077222002	MMW-14D-A (50-52')	Solid	03/07/13 13:40	03/08/13 11:05
5077222003	SB-102 (12-14')	Solid	03/07/13 14:00	03/08/13 11:05
5077222004	MMW-P-02-A (12-14')	Solid	03/07/13 15:05	03/08/13 11:05
5077222005	MMW-P-02A (20-22')	Solid	03/07/13 15:15	03/08/13 11:05
5077222006	MMW-P-03-D-A (38-40')	Solid	03/07/13 16:45	03/08/13 11:05
5077222007	Dup-1	Solid	03/07/13 00:00	03/08/13 11:05
5077222008	Trip Blank	Water	03/07/13 08:00	03/08/13 11:05

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077222

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077222001	MMW-14D-A (44-46')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077222002	MMW-14D-A (50-52')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077222003	SB-102 (12-14')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077222004	MMW-P-02-A (12-14')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077222005	MMW-P-02A (20-22')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077222006	MMW-P-03-D-A (38-40')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077222007	Dup-1	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077222008	Trip Blank	EPA 8260	GRM	73

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-14D-A (44-46') **Lab ID: 5077222001** **Collected: 03/07/13 12:25** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	95.5	1		03/16/13 02:41	67-64-1	
Acrolein	ND	ug/kg	95.5	1		03/16/13 02:41	107-02-8	
Acrylonitrile	ND	ug/kg	95.5	1		03/16/13 02:41	107-13-1	
Benzene	ND	ug/kg	4.8	1		03/16/13 02:41	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		03/16/13 02:41	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		03/16/13 02:41	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		03/16/13 02:41	75-27-4	
Bromoform	ND	ug/kg	4.8	1		03/16/13 02:41	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		03/16/13 02:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.9	1		03/16/13 02:41	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		03/16/13 02:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		03/16/13 02:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		03/16/13 02:41	98-06-6	
Carbon disulfide	ND	ug/kg	9.5	1		03/16/13 02:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		03/16/13 02:41	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		03/16/13 02:41	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		03/16/13 02:41	75-00-3	
Chloroform	ND	ug/kg	4.8	1		03/16/13 02:41	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		03/16/13 02:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		03/16/13 02:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		03/16/13 02:41	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		03/16/13 02:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		03/16/13 02:41	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		03/16/13 02:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		03/16/13 02:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		03/16/13 02:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		03/16/13 02:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.5	1		03/16/13 02:41	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		03/16/13 02:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		03/16/13 02:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		03/16/13 02:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		03/16/13 02:41	75-35-4	
cis-1,2-Dichloroethene	4980	ug/kg	219	50		03/18/13 15:48	156-59-2	
trans-1,2-Dichloroethene	5.5	ug/kg	4.8	1		03/16/13 02:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		03/16/13 02:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		03/16/13 02:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		03/16/13 02:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		03/16/13 02:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/16/13 02:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/16/13 02:41	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		03/16/13 02:41	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.5	1		03/16/13 02:41	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		03/16/13 02:41	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		03/16/13 02:41	110-54-3	N2
2-Hexanone	ND	ug/kg	95.5	1		03/16/13 02:41	591-78-6	
Iodomethane	ND	ug/kg	95.5	1		03/16/13 02:41	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-14D-A (44-46') **Lab ID: 5077222001** **Collected: 03/07/13 12:25** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		03/16/13 02:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		03/16/13 02:41	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		03/16/13 02:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.9	1		03/16/13 02:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		03/16/13 02:41	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		03/16/13 02:41	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		03/16/13 02:41	103-65-1	
Styrene	ND	ug/kg	4.8	1		03/16/13 02:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/16/13 02:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/16/13 02:41	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		03/16/13 02:41	127-18-4	
Toluene	ND	ug/kg	4.8	1		03/16/13 02:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		03/16/13 02:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		03/16/13 02:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		03/16/13 02:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		03/16/13 02:41	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		03/16/13 02:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		03/16/13 02:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		03/16/13 02:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		03/16/13 02:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		03/16/13 02:41	108-67-8	
Vinyl acetate	ND	ug/kg	95.5	1		03/16/13 02:41	108-05-4	
Vinyl chloride	26.3	ug/kg	4.8	1		03/16/13 02:41	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		03/16/13 02:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	71-125	1		03/16/13 02:41	1868-53-7	
Toluene-d8 (S)	109	%.	76-124	1		03/16/13 02:41	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	67-134	1		03/16/13 02:41	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	8.9	%	0.10	1		03/12/13 12:21		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-14D-A (50-52') **Lab ID: 5077222002** **Collected: 03/07/13 13:40** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	99.4	1		03/16/13 03:15	67-64-1	
Acrolein	ND	ug/kg	99.4	1		03/16/13 03:15	107-02-8	
Acrylonitrile	ND	ug/kg	99.4	1		03/16/13 03:15	107-13-1	
Benzene	ND	ug/kg	5.0	1		03/16/13 03:15	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		03/16/13 03:15	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		03/16/13 03:15	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		03/16/13 03:15	75-27-4	
Bromoform	ND	ug/kg	5.0	1		03/16/13 03:15	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		03/16/13 03:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.9	1		03/16/13 03:15	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		03/16/13 03:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		03/16/13 03:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		03/16/13 03:15	98-06-6	
Carbon disulfide	ND	ug/kg	9.9	1		03/16/13 03:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		03/16/13 03:15	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		03/16/13 03:15	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		03/16/13 03:15	75-00-3	
Chloroform	ND	ug/kg	5.0	1		03/16/13 03:15	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		03/16/13 03:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		03/16/13 03:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		03/16/13 03:15	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		03/16/13 03:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		03/16/13 03:15	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		03/16/13 03:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		03/16/13 03:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		03/16/13 03:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		03/16/13 03:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	99.4	1		03/16/13 03:15	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		03/16/13 03:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		03/16/13 03:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		03/16/13 03:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		03/16/13 03:15	75-35-4	
cis-1,2-Dichloroethene	**2930**	ug/kg	215	50		03/18/13 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		03/16/13 03:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		03/16/13 03:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		03/16/13 03:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		03/16/13 03:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		03/16/13 03:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		03/16/13 03:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		03/16/13 03:15	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		03/16/13 03:15	100-41-4	
Ethyl methacrylate	ND	ug/kg	99.4	1		03/16/13 03:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		03/16/13 03:15	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		03/16/13 03:15	110-54-3	N2
2-Hexanone	ND	ug/kg	99.4	1		03/16/13 03:15	591-78-6	
Iodomethane	ND	ug/kg	99.4	1		03/16/13 03:15	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-14D-A (50-52') **Lab ID: 5077222002** Collected: 03/07/13 13:40 Received: 03/08/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		03/16/13 03:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		03/16/13 03:15	99-87-6	
Methylene Chloride	ND	ug/kg	19.9	1		03/16/13 03:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.9	1		03/16/13 03:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		03/16/13 03:15	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		03/16/13 03:15	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		03/16/13 03:15	103-65-1	
Styrene	ND	ug/kg	5.0	1		03/16/13 03:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		03/16/13 03:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		03/16/13 03:15	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		03/16/13 03:15	127-18-4	
Toluene	ND	ug/kg	5.0	1		03/16/13 03:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		03/16/13 03:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		03/16/13 03:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		03/16/13 03:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		03/16/13 03:15	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		03/16/13 03:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		03/16/13 03:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		03/16/13 03:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		03/16/13 03:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		03/16/13 03:15	108-67-8	
Vinyl acetate	ND	ug/kg	99.4	1		03/16/13 03:15	108-05-4	
Vinyl chloride	26.2	ug/kg	5.0	1		03/16/13 03:15	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		03/16/13 03:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	71-125	1		03/16/13 03:15	1868-53-7	
Toluene-d8 (S)	110	%.	76-124	1		03/16/13 03:15	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	67-134	1		03/16/13 03:15	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	13.3	%	0.10	1		03/12/13 12:22		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: SB-102 (12-14') **Lab ID: 5077222003** **Collected: 03/07/13 14:00** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	103	1		03/16/13 03:50	67-64-1	
Acrolein	ND	ug/kg	103	1		03/16/13 03:50	107-02-8	
Acrylonitrile	ND	ug/kg	103	1		03/16/13 03:50	107-13-1	
Benzene	ND	ug/kg	5.2	1		03/16/13 03:50	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		03/16/13 03:50	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		03/16/13 03:50	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		03/16/13 03:50	75-27-4	
Bromoform	ND	ug/kg	5.2	1		03/16/13 03:50	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		03/16/13 03:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.8	1		03/16/13 03:50	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		03/16/13 03:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		03/16/13 03:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		03/16/13 03:50	98-06-6	
Carbon disulfide	ND	ug/kg	10.3	1		03/16/13 03:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		03/16/13 03:50	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		03/16/13 03:50	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		03/16/13 03:50	75-00-3	
Chloroform	ND	ug/kg	5.2	1		03/16/13 03:50	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		03/16/13 03:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		03/16/13 03:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		03/16/13 03:50	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		03/16/13 03:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		03/16/13 03:50	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		03/16/13 03:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		03/16/13 03:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		03/16/13 03:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		03/16/13 03:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	103	1		03/16/13 03:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		03/16/13 03:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		03/16/13 03:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		03/16/13 03:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		03/16/13 03:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		03/16/13 03:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		03/16/13 03:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		03/16/13 03:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		03/16/13 03:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		03/16/13 03:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		03/16/13 03:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		03/16/13 03:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		03/16/13 03:50	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		03/16/13 03:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	103	1		03/16/13 03:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		03/16/13 03:50	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		03/16/13 03:50	110-54-3	N2
2-Hexanone	ND	ug/kg	103	1		03/16/13 03:50	591-78-6	
Iodomethane	ND	ug/kg	103	1		03/16/13 03:50	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: SB-102 (12-14') **Lab ID: 5077222003** **Collected: 03/07/13 14:00** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		03/16/13 03:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		03/16/13 03:50	99-87-6	
Methylene Chloride	ND	ug/kg	20.6	1		03/16/13 03:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.8	1		03/16/13 03:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		03/16/13 03:50	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		03/16/13 03:50	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		03/16/13 03:50	103-65-1	
Styrene	ND	ug/kg	5.2	1		03/16/13 03:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		03/16/13 03:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		03/16/13 03:50	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		03/16/13 03:50	127-18-4	
Toluene	ND	ug/kg	5.2	1		03/16/13 03:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		03/16/13 03:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		03/16/13 03:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		03/16/13 03:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		03/16/13 03:50	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		03/16/13 03:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		03/16/13 03:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		03/16/13 03:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		03/16/13 03:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		03/16/13 03:50	108-67-8	
Vinyl acetate	ND	ug/kg	103	1		03/16/13 03:50	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		03/16/13 03:50	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		03/16/13 03:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	71-125	1		03/16/13 03:50	1868-53-7	
Toluene-d8 (S)	111	%.	76-124	1		03/16/13 03:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		03/16/13 03:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	19.4	%	0.10	1		03/12/13 12:22		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-P-02-A (12-14') **Lab ID: 5077222004** Collected: 03/07/13 15:05 Received: 03/08/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	98.9	1		03/16/13 04:24	67-64-1	
Acrolein	ND	ug/kg	98.9	1		03/16/13 04:24	107-02-8	
Acrylonitrile	ND	ug/kg	98.9	1		03/16/13 04:24	107-13-1	
Benzene	ND	ug/kg	4.9	1		03/16/13 04:24	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		03/16/13 04:24	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		03/16/13 04:24	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		03/16/13 04:24	75-27-4	
Bromoform	ND	ug/kg	4.9	1		03/16/13 04:24	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		03/16/13 04:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.7	1		03/16/13 04:24	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		03/16/13 04:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		03/16/13 04:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		03/16/13 04:24	98-06-6	
Carbon disulfide	ND	ug/kg	9.9	1		03/16/13 04:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		03/16/13 04:24	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		03/16/13 04:24	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		03/16/13 04:24	75-00-3	
Chloroform	ND	ug/kg	4.9	1		03/16/13 04:24	67-66-3	
Chloromethane	ND	ug/kg	4.9	1		03/16/13 04:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		03/16/13 04:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		03/16/13 04:24	106-43-4	
Dibromochloromethane	ND	ug/kg	4.9	1		03/16/13 04:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		03/16/13 04:24	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		03/16/13 04:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		03/16/13 04:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		03/16/13 04:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		03/16/13 04:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	98.9	1		03/16/13 04:24	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		03/16/13 04:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		03/16/13 04:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		03/16/13 04:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		03/16/13 04:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		03/16/13 04:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		03/16/13 04:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		03/16/13 04:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		03/16/13 04:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		03/16/13 04:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		03/16/13 04:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		03/16/13 04:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		03/16/13 04:24	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		03/16/13 04:24	100-41-4	
Ethyl methacrylate	ND	ug/kg	98.9	1		03/16/13 04:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		03/16/13 04:24	87-68-3	
n-Hexane	ND	ug/kg	4.9	1		03/16/13 04:24	110-54-3	N2
2-Hexanone	ND	ug/kg	98.9	1		03/16/13 04:24	591-78-6	
Iodomethane	ND	ug/kg	98.9	1		03/16/13 04:24	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-P-02-A (12-14') **Lab ID: 5077222004** Collected: 03/07/13 15:05 Received: 03/08/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		03/16/13 04:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		03/16/13 04:24	99-87-6	
Methylene Chloride	ND	ug/kg	19.8	1		03/16/13 04:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.7	1		03/16/13 04:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		03/16/13 04:24	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		03/16/13 04:24	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		03/16/13 04:24	103-65-1	
Styrene	ND	ug/kg	4.9	1		03/16/13 04:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		03/16/13 04:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		03/16/13 04:24	79-34-5	
Tetrachloroethene	118	ug/kg	4.9	1		03/16/13 04:24	127-18-4	
Toluene	ND	ug/kg	4.9	1		03/16/13 04:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		03/16/13 04:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		03/16/13 04:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		03/16/13 04:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		03/16/13 04:24	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		03/16/13 04:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		03/16/13 04:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		03/16/13 04:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		03/16/13 04:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		03/16/13 04:24	108-67-8	
Vinyl acetate	ND	ug/kg	98.9	1		03/16/13 04:24	108-05-4	
Vinyl chloride	ND	ug/kg	4.9	1		03/16/13 04:24	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		03/16/13 04:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	71-125	1		03/16/13 04:24	1868-53-7	
Toluene-d8 (S)	108	%.	76-124	1		03/16/13 04:24	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	67-134	1		03/16/13 04:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	5.3	%	0.10	1		03/12/13 12:22		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-P-02A (20-22') **Lab ID: 5077222005** **Collected: 03/07/13 15:15** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	2280	25		03/16/13 04:58	67-64-1	
Acrolein	ND	ug/kg	2280	25		03/16/13 04:58	107-02-8	
Acrylonitrile	ND	ug/kg	2280	25		03/16/13 04:58	107-13-1	
Benzene	ND	ug/kg	114	25		03/16/13 04:58	71-43-2	1d
Bromobenzene	ND	ug/kg	114	25		03/16/13 04:58	108-86-1	
Bromochloromethane	ND	ug/kg	114	25		03/16/13 04:58	74-97-5	
Bromodichloromethane	ND	ug/kg	114	25		03/16/13 04:58	75-27-4	
Bromoform	ND	ug/kg	114	25		03/16/13 04:58	75-25-2	
Bromomethane	ND	ug/kg	114	25		03/16/13 04:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	570	25		03/16/13 04:58	78-93-3	
n-Butylbenzene	ND	ug/kg	114	25		03/16/13 04:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	114	25		03/16/13 04:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	114	25		03/16/13 04:58	98-06-6	
Carbon disulfide	ND	ug/kg	228	25		03/16/13 04:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	114	25		03/16/13 04:58	56-23-5	
Chlorobenzene	ND	ug/kg	114	25		03/16/13 04:58	108-90-7	
Chloroethane	ND	ug/kg	114	25		03/16/13 04:58	75-00-3	
Chloroform	ND	ug/kg	114	25		03/16/13 04:58	67-66-3	
Chloromethane	ND	ug/kg	114	25		03/16/13 04:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	114	25		03/16/13 04:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	114	25		03/16/13 04:58	106-43-4	
Dibromochloromethane	ND	ug/kg	114	25		03/16/13 04:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	114	25		03/16/13 04:58	106-93-4	
Dibromomethane	ND	ug/kg	114	25		03/16/13 04:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	114	25		03/16/13 04:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	114	25		03/16/13 04:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	114	25		03/16/13 04:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	2280	25		03/16/13 04:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	114	25		03/16/13 04:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	114	25		03/16/13 04:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	114	25		03/16/13 04:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	114	25		03/16/13 04:58	75-35-4	
cis-1,2-Dichloroethene	**3640**	ug/kg	114	25		03/16/13 04:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	114	25		03/16/13 04:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	114	25		03/16/13 04:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	114	25		03/16/13 04:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	114	25		03/16/13 04:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	114	25		03/16/13 04:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	114	25		03/16/13 04:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	114	25		03/16/13 04:58	10061-02-6	
Ethylbenzene	ND	ug/kg	114	25		03/16/13 04:58	100-41-4	
Ethyl methacrylate	ND	ug/kg	2280	25		03/16/13 04:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	114	25		03/16/13 04:58	87-68-3	
n-Hexane	ND	ug/kg	114	25		03/16/13 04:58	110-54-3	N2
2-Hexanone	ND	ug/kg	2280	25		03/16/13 04:58	591-78-6	
Iodomethane	ND	ug/kg	2280	25		03/16/13 04:58	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-P-02A (20-22') **Lab ID: 5077222005** Collected: 03/07/13 15:15 Received: 03/08/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	114	25		03/16/13 04:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	114	25		03/16/13 04:58	99-87-6	
Methylene Chloride	ND	ug/kg	456	25		03/16/13 04:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	570	25		03/16/13 04:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	114	25		03/16/13 04:58	1634-04-4	
Naphthalene	ND	ug/kg	114	25		03/16/13 04:58	91-20-3	
n-Propylbenzene	ND	ug/kg	114	25		03/16/13 04:58	103-65-1	
Styrene	ND	ug/kg	114	25		03/16/13 04:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	114	25		03/16/13 04:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	114	25		03/16/13 04:58	79-34-5	
Tetrachloroethene	60400	ug/kg	2280	500		03/16/13 05:33	127-18-4	
Toluene	ND	ug/kg	114	25		03/16/13 04:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	114	25		03/16/13 04:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	114	25		03/16/13 04:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	114	25		03/16/13 04:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	114	25		03/16/13 04:58	79-00-5	
Trichloroethene	2850	ug/kg	114	25		03/16/13 04:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	114	25		03/16/13 04:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	114	25		03/16/13 04:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	114	25		03/16/13 04:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	114	25		03/16/13 04:58	108-67-8	
Vinyl acetate	ND	ug/kg	2280	25		03/16/13 04:58	108-05-4	
Vinyl chloride	ND	ug/kg	114	25		03/16/13 04:58	75-01-4	2d,D4
Xylene (Total)	ND	ug/kg	228	25		03/16/13 04:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	25		03/16/13 04:58	1868-53-7	
Toluene-d8 (S)	108	%.	76-124	25		03/16/13 04:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	25		03/16/13 04:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	11.8	%	0.10	1		03/12/13 12:22		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-P-03-D-A (38-40') **Lab ID: 5077222006** **Collected: 03/07/13 16:45** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	81.0	1		03/16/13 06:07	67-64-1	
Acrolein	ND	ug/kg	81.0	1		03/16/13 06:07	107-02-8	
Acrylonitrile	ND	ug/kg	81.0	1		03/16/13 06:07	107-13-1	
Benzene	ND	ug/kg	4.0	1		03/16/13 06:07	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		03/16/13 06:07	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		03/16/13 06:07	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		03/16/13 06:07	75-27-4	
Bromoform	ND	ug/kg	4.0	1		03/16/13 06:07	75-25-2	
Bromomethane	ND	ug/kg	4.0	1		03/16/13 06:07	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.2	1		03/16/13 06:07	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		03/16/13 06:07	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		03/16/13 06:07	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		03/16/13 06:07	98-06-6	
Carbon disulfide	ND	ug/kg	8.1	1		03/16/13 06:07	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	1		03/16/13 06:07	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		03/16/13 06:07	108-90-7	
Chloroethane	ND	ug/kg	4.0	1		03/16/13 06:07	75-00-3	
Chloroform	ND	ug/kg	4.0	1		03/16/13 06:07	67-66-3	
Chloromethane	ND	ug/kg	4.0	1		03/16/13 06:07	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		03/16/13 06:07	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		03/16/13 06:07	106-43-4	
Dibromochloromethane	ND	ug/kg	4.0	1		03/16/13 06:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		03/16/13 06:07	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		03/16/13 06:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		03/16/13 06:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		03/16/13 06:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		03/16/13 06:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	81.0	1		03/16/13 06:07	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.0	1		03/16/13 06:07	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		03/16/13 06:07	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		03/16/13 06:07	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		03/16/13 06:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		03/16/13 06:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		03/16/13 06:07	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		03/16/13 06:07	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		03/16/13 06:07	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		03/16/13 06:07	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		03/16/13 06:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		03/16/13 06:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		03/16/13 06:07	10061-02-6	
Ethylbenzene	ND	ug/kg	4.0	1		03/16/13 06:07	100-41-4	
Ethyl methacrylate	ND	ug/kg	81.0	1		03/16/13 06:07	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		03/16/13 06:07	87-68-3	
n-Hexane	ND	ug/kg	4.0	1		03/16/13 06:07	110-54-3	N2
2-Hexanone	ND	ug/kg	81.0	1		03/16/13 06:07	591-78-6	
Iodomethane	ND	ug/kg	81.0	1		03/16/13 06:07	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: MMW-P-03-D-A (38-40') **Lab ID: 5077222006** **Collected: 03/07/13 16:45** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		03/16/13 06:07	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		03/16/13 06:07	99-87-6	
Methylene Chloride	ND	ug/kg	16.2	1		03/16/13 06:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.2	1		03/16/13 06:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		03/16/13 06:07	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		03/16/13 06:07	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		03/16/13 06:07	103-65-1	
Styrene	ND	ug/kg	4.0	1		03/16/13 06:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		03/16/13 06:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		03/16/13 06:07	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		03/16/13 06:07	127-18-4	
Toluene	ND	ug/kg	4.0	1		03/16/13 06:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		03/16/13 06:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		03/16/13 06:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		03/16/13 06:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		03/16/13 06:07	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		03/16/13 06:07	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		03/16/13 06:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		03/16/13 06:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		03/16/13 06:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		03/16/13 06:07	108-67-8	
Vinyl acetate	ND	ug/kg	81.0	1		03/16/13 06:07	108-05-4	
Vinyl chloride	12.4	ug/kg	4.0	1		03/16/13 06:07	75-01-4	
Xylene (Total)	ND	ug/kg	8.1	1		03/16/13 06:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	71-125	1		03/16/13 06:07	1868-53-7	
Toluene-d8 (S)	108	%.	76-124	1		03/16/13 06:07	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	67-134	1		03/16/13 06:07	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	9.2	%	0.10	1		03/12/13 12:22		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: Dup-1 **Lab ID: 5077222007** **Collected: 03/07/13 00:00** **Received: 03/08/13 11:05** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	2190	25		03/16/13 06:42	67-64-1	
Acrolein	ND	ug/kg	2190	25		03/16/13 06:42	107-02-8	
Acrylonitrile	ND	ug/kg	2190	25		03/16/13 06:42	107-13-1	
Benzene	ND	ug/kg	109	25		03/16/13 06:42	71-43-2	1d
Bromobenzene	ND	ug/kg	109	25		03/16/13 06:42	108-86-1	
Bromochloromethane	ND	ug/kg	109	25		03/16/13 06:42	74-97-5	
Bromodichloromethane	ND	ug/kg	109	25		03/16/13 06:42	75-27-4	
Bromoform	ND	ug/kg	109	25		03/16/13 06:42	75-25-2	
Bromomethane	ND	ug/kg	109	25		03/16/13 06:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	547	25		03/16/13 06:42	78-93-3	
n-Butylbenzene	ND	ug/kg	109	25		03/16/13 06:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	109	25		03/16/13 06:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	109	25		03/16/13 06:42	98-06-6	
Carbon disulfide	ND	ug/kg	219	25		03/16/13 06:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	109	25		03/16/13 06:42	56-23-5	
Chlorobenzene	ND	ug/kg	109	25		03/16/13 06:42	108-90-7	
Chloroethane	ND	ug/kg	109	25		03/16/13 06:42	75-00-3	
Chloroform	ND	ug/kg	109	25		03/16/13 06:42	67-66-3	
Chloromethane	ND	ug/kg	109	25		03/16/13 06:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	109	25		03/16/13 06:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	109	25		03/16/13 06:42	106-43-4	
Dibromochloromethane	ND	ug/kg	109	25		03/16/13 06:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	109	25		03/16/13 06:42	106-93-4	
Dibromomethane	ND	ug/kg	109	25		03/16/13 06:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	109	25		03/16/13 06:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	109	25		03/16/13 06:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	109	25		03/16/13 06:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	2190	25		03/16/13 06:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	109	25		03/16/13 06:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	109	25		03/16/13 06:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	109	25		03/16/13 06:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	109	25		03/16/13 06:42	75-35-4	
cis-1,2-Dichloroethene	**3450**	ug/kg	109	25		03/16/13 06:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	109	25		03/16/13 06:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	109	25		03/16/13 06:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	109	25		03/16/13 06:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	109	25		03/16/13 06:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	109	25		03/16/13 06:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	109	25		03/16/13 06:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	109	25		03/16/13 06:42	10061-02-6	
Ethylbenzene	ND	ug/kg	109	25		03/16/13 06:42	100-41-4	
Ethyl methacrylate	ND	ug/kg	2190	25		03/16/13 06:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	109	25		03/16/13 06:42	87-68-3	
n-Hexane	ND	ug/kg	109	25		03/16/13 06:42	110-54-3	N2
2-Hexanone	ND	ug/kg	2190	25		03/16/13 06:42	591-78-6	
Iodomethane	ND	ug/kg	2190	25		03/16/13 06:42	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: Dup-1 **Lab ID: 5077222007** Collected: 03/07/13 00:00 Received: 03/08/13 11:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	109	25		03/16/13 06:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	109	25		03/16/13 06:42	99-87-6	
Methylene Chloride	ND	ug/kg	438	25		03/16/13 06:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	547	25		03/16/13 06:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	109	25		03/16/13 06:42	1634-04-4	
Naphthalene	ND	ug/kg	109	25		03/16/13 06:42	91-20-3	
n-Propylbenzene	ND	ug/kg	109	25		03/16/13 06:42	103-65-1	
Styrene	ND	ug/kg	109	25		03/16/13 06:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	109	25		03/16/13 06:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	109	25		03/16/13 06:42	79-34-5	
Tetrachloroethene	**41700**	ug/kg	2190	500		03/16/13 07:16	127-18-4	
Toluene	ND	ug/kg	109	25		03/16/13 06:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	109	25		03/16/13 06:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	109	25		03/16/13 06:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	109	25		03/16/13 06:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	109	25		03/16/13 06:42	79-00-5	
Trichloroethene	**2230**	ug/kg	109	25		03/16/13 06:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	109	25		03/16/13 06:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	109	25		03/16/13 06:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	109	25		03/16/13 06:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	109	25		03/16/13 06:42	108-67-8	
Vinyl acetate	ND	ug/kg	2190	25		03/16/13 06:42	108-05-4	
Vinyl chloride	ND	ug/kg	109	25		03/16/13 06:42	75-01-4	2d,D4
Xylene (Total)	ND	ug/kg	219	25		03/16/13 06:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	25		03/16/13 06:42	1868-53-7	
Toluene-d8 (S)	109	%.	76-124	25		03/16/13 06:42	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	25		03/16/13 06:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	11.3	%	0.10	1		03/12/13 12:22		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: Trip Blank Lab ID: 5077222008 Collected: 03/07/13 08:00 Received: 03/08/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/16/13 11:51	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/16/13 11:51	107-02-8	
Acrylonitrile	ND	ug/L	100	1		03/16/13 11:51	107-13-1	
Benzene	ND	ug/L	5.0	1		03/16/13 11:51	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/16/13 11:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/16/13 11:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/16/13 11:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/16/13 11:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/16/13 11:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/16/13 11:51	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/16/13 11:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/16/13 11:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/16/13 11:51	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/16/13 11:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/16/13 11:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/16/13 11:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/16/13 11:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/16/13 11:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/16/13 11:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/16/13 11:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/16/13 11:51	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/16/13 11:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/16/13 11:51	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		03/16/13 11:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/16/13 11:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/16/13 11:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/16/13 11:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/16/13 11:51	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/16/13 11:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/16/13 11:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/16/13 11:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/16/13 11:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 11:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/16/13 11:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/16/13 11:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/16/13 11:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/16/13 11:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/16/13 11:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/16/13 11:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/16/13 11:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/16/13 11:51	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/16/13 11:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/16/13 11:51	87-68-3	
n-Hexane	ND	ug/L	5.0	1		03/16/13 11:51	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		03/16/13 11:51	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/16/13 11:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/16/13 11:51	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077222

Sample: Trip Blank Lab ID: 5077222008 Collected: 03/07/13 08:00 Received: 03/08/13 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		03/16/13 11:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/16/13 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/16/13 11:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/16/13 11:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		03/16/13 11:51	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		03/16/13 11:51	103-65-1	
Styrene	ND	ug/L	5.0	1		03/16/13 11:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/16/13 11:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/16/13 11:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/16/13 11:51	127-18-4	
Toluene	ND	ug/L	5.0	1		03/16/13 11:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/16/13 11:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/16/13 11:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/16/13 11:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/16/13 11:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/16/13 11:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/16/13 11:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/16/13 11:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/16/13 11:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/16/13 11:51	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/16/13 11:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/16/13 11:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/16/13 11:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		03/16/13 11:51	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	72-125	1		03/16/13 11:51	460-00-4	
Toluene-d8 (S)	107	%.	81-114	1		03/16/13 11:51	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

QC Batch: MSV/51327 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5077222008

METHOD BLANK: 885938 | Matrix: Water
Associated Lab Samples: 5077222008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/16/13 02:06	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/16/13 02:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/16/13 02:06	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/16/13 02:06	
1,1-Dichloroethane	ug/L	ND	5.0	03/16/13 02:06	
1,1-Dichloroethene	ug/L	ND	5.0	03/16/13 02:06	
1,1-Dichloropropene	ug/L	ND	5.0	03/16/13 02:06	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/16/13 02:06	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/16/13 02:06	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/16/13 02:06	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/16/13 02:06	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/16/13 02:06	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/16/13 02:06	
1,2-Dichloroethane	ug/L	ND	5.0	03/16/13 02:06	
1,2-Dichloropropane	ug/L	ND	5.0	03/16/13 02:06	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/16/13 02:06	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/16/13 02:06	
1,3-Dichloropropane	ug/L	ND	5.0	03/16/13 02:06	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/16/13 02:06	
2,2-Dichloropropane	ug/L	ND	5.0	03/16/13 02:06	
2-Butanone (MEK)	ug/L	ND	25.0	03/16/13 02:06	
2-Chlorotoluene	ug/L	ND	5.0	03/16/13 02:06	
2-Hexanone	ug/L	ND	25.0	03/16/13 02:06	
4-Chlorotoluene	ug/L	ND	5.0	03/16/13 02:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/16/13 02:06	
Acetone	ug/L	ND	100	03/16/13 02:06	
Acrolein	ug/L	ND	50.0	03/16/13 02:06	
Acrylonitrile	ug/L	ND	100	03/16/13 02:06	
Benzene	ug/L	ND	5.0	03/16/13 02:06	
Bromobenzene	ug/L	ND	5.0	03/16/13 02:06	
Bromochloromethane	ug/L	ND	5.0	03/16/13 02:06	
Bromodichloromethane	ug/L	ND	5.0	03/16/13 02:06	
Bromoform	ug/L	ND	5.0	03/16/13 02:06	
Bromomethane	ug/L	ND	5.0	03/16/13 02:06	
Carbon disulfide	ug/L	ND	10.0	03/16/13 02:06	
Carbon tetrachloride	ug/L	ND	5.0	03/16/13 02:06	
Chlorobenzene	ug/L	ND	5.0	03/16/13 02:06	
Chloroethane	ug/L	ND	5.0	03/16/13 02:06	
Chloroform	ug/L	ND	5.0	03/16/13 02:06	
Chloromethane	ug/L	ND	5.0	03/16/13 02:06	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 02:06	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/16/13 02:06	
Dibromochloromethane	ug/L	ND	5.0	03/16/13 02:06	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

METHOD BLANK: 885938 Matrix: Water

Associated Lab Samples: 5077222008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	03/16/13 02:06	
Dichlorodifluoromethane	ug/L	ND	5.0	03/16/13 02:06	
Ethyl methacrylate	ug/L	ND	100	03/16/13 02:06	
Ethylbenzene	ug/L	ND	5.0	03/16/13 02:06	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/16/13 02:06	
Iodomethane	ug/L	ND	10.0	03/16/13 02:06	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/16/13 02:06	
Methyl-tert-butyl ether	ug/L	ND	4.0	03/16/13 02:06	
Methylene Chloride	ug/L	ND	5.0	03/16/13 02:06	
n-Butylbenzene	ug/L	ND	5.0	03/16/13 02:06	
n-Hexane	ug/L	ND	5.0	03/16/13 02:06	N2
n-Propylbenzene	ug/L	ND	5.0	03/16/13 02:06	
Naphthalene	ug/L	ND	5.0	03/16/13 02:06	
p-Isopropyltoluene	ug/L	ND	5.0	03/16/13 02:06	
sec-Butylbenzene	ug/L	ND	5.0	03/16/13 02:06	
Styrene	ug/L	ND	5.0	03/16/13 02:06	
tert-Butylbenzene	ug/L	ND	5.0	03/16/13 02:06	
Tetrachloroethene	ug/L	ND	5.0	03/16/13 02:06	
Toluene	ug/L	ND	5.0	03/16/13 02:06	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/16/13 02:06	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/16/13 02:06	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/16/13 02:06	
Trichloroethene	ug/L	ND	5.0	03/16/13 02:06	
Trichlorofluoromethane	ug/L	ND	5.0	03/16/13 02:06	
Vinyl acetate	ug/L	ND	50.0	03/16/13 02:06	
Vinyl chloride	ug/L	ND	2.0	03/16/13 02:06	
Xylene (Total)	ug/L	ND	10.0	03/16/13 02:06	
4-Bromofluorobenzene (S)	%.	90	72-125	03/16/13 02:06	
Dibromofluoromethane (S)	%.	107	83-123	03/16/13 02:06	
Toluene-d8 (S)	%.	109	81-114	03/16/13 02:06	

LABORATORY CONTROL SAMPLE: 885939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.8	112	69-122	
1,1,1-Trichloroethane	ug/L	50	56.8	114	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	68-134	
1,1,2-Trichloroethane	ug/L	50	56.2	112	77-129	
1,1-Dichloroethane	ug/L	50	54.4	109	70-127	
1,1-Dichloroethene	ug/L	50	55.3	111	75-145	
1,1-Dichloropropene	ug/L	50	55.2	110	75-126	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	63-130	
1,2,3-Trichloropropane	ug/L	50	50.9	102	45-121	
1,2,4-Trichlorobenzene	ug/L	50	52.3	105	64-122	
1,2,4-Trimethylbenzene	ug/L	50	56.2	112	68-129	

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(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

LABORATORY CONTROL SAMPLE: 885939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	52.4	105	77-123	
1,2-Dichlorobenzene	ug/L	50	52.0	104	74-123	
1,2-Dichloroethane	ug/L	50	56.9	114	71-127	
1,2-Dichloropropane	ug/L	50	51.9	104	75-126	
1,3,5-Trimethylbenzene	ug/L	50	55.8	112	69-129	
1,3-Dichlorobenzene	ug/L	50	51.8	104	76-123	
1,3-Dichloropropane	ug/L	50	51.0	102	77-126	
1,4-Dichlorobenzene	ug/L	50	53.7	107	77-121	
2,2-Dichloropropane	ug/L	50	52.6	105	45-138	
2-Butanone (MEK)	ug/L	250	238	95	42-177	
2-Chlorotoluene	ug/L	50	56.3	113	74-129	
2-Hexanone	ug/L	250	249	100	57-162	
4-Chlorotoluene	ug/L	50	53.5	107	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	256	102	64-135	
Acetone	ug/L	250	276	110	10-200	
Acrolein	ug/L	1000	1280	128	10-200	
Acrylonitrile	ug/L	1000	956	96	59-144	
Benzene	ug/L	50	52.8	106	76-123	
Bromobenzene	ug/L	50	52.8	106	67-130	
Bromochloromethane	ug/L	50	68.9	138	58-153	
Bromodichloromethane	ug/L	50	52.2	104	71-124	
Bromoform	ug/L	50	42.2	84	64-116	
Bromomethane	ug/L	50	64.1	128	23-197	
Carbon disulfide	ug/L	100	108	108	55-146	
Carbon tetrachloride	ug/L	50	58.5	117	65-125	
Chlorobenzene	ug/L	50	53.8	108	78-120	
Chloroethane	ug/L	50	57.1	114	56-163	
Chloroform	ug/L	50	57.7	115	73-122	
Chloromethane	ug/L	50	53.7	107	46-146	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	79-129	
cis-1,3-Dichloropropene	ug/L	50	55.3	111	66-123	
Dibromochloromethane	ug/L	50	49.9	100	70-123	
Dibromomethane	ug/L	50	54.6	109	73-123	
Dichlorodifluoromethane	ug/L	50	72.4	145	19-200	
Ethyl methacrylate	ug/L	200	196	98	70-127	
Ethylbenzene	ug/L	50	54.4	109	75-120	
Hexachloro-1,3-butadiene	ug/L	50	51.6	103	64-131	
Iodomethane	ug/L	100	106	106	16-181	
Isopropylbenzene (Cumene)	ug/L	50	54.8	110	73-123	
Methyl-tert-butyl ether	ug/L	100	97.3	97	66-128	
Methylene Chloride	ug/L	50	53.3	107	61-138	
n-Butylbenzene	ug/L	50	56.0	112	69-130	
n-Hexane	ug/L	50	48.5	97	67-142	N2
n-Propylbenzene	ug/L	50	57.3	115	71-132	
Naphthalene	ug/L	50	47.0	94	62-130	
p-Isopropyltoluene	ug/L	50	56.0	112	71-126	
sec-Butylbenzene	ug/L	50	59.0	118	69-130	
Styrene	ug/L	50	55.3	111	75-125	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

LABORATORY CONTROL SAMPLE: 885939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	47.5	95	49-114	
Tetrachloroethene	ug/L	50	53.5	107	57-125	
Toluene	ug/L	50	54.8	110	72-124	
trans-1,2-Dichloroethene	ug/L	50	54.8	110	71-145	
trans-1,3-Dichloropropene	ug/L	50	53.8	108	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	198	99	50-121	
Trichloroethene	ug/L	50	57.1	114	77-122	
Trichlorofluoromethane	ug/L	50	68.1	136	56-159	
Vinyl acetate	ug/L	200	111	55	27-119	
Vinyl chloride	ug/L	50	62.9	126	61-146	
Xylene (Total)	ug/L	150	163	108	72-126	
4-Bromofluorobenzene (S)	%.			97	72-125	
Dibromofluoromethane (S)	%.			104	83-123	
Toluene-d8 (S)	%.			106	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

QC Batch: MSV/51326 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5077222001, 5077222002, 5077222003, 5077222004, 5077222005, 5077222006, 5077222007

METHOD BLANK: 885936 Matrix: Solid
Associated Lab Samples: 5077222001, 5077222002, 5077222003, 5077222004, 5077222005, 5077222006, 5077222007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	03/16/13 02:06	
1,1,1-Trichloroethane	ug/kg	ND	5.0	03/16/13 02:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	03/16/13 02:06	
1,1,2-Trichloroethane	ug/kg	ND	5.0	03/16/13 02:06	
1,1-Dichloroethane	ug/kg	ND	5.0	03/16/13 02:06	
1,1-Dichloroethene	ug/kg	ND	5.0	03/16/13 02:06	
1,1-Dichloropropene	ug/kg	ND	5.0	03/16/13 02:06	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	03/16/13 02:06	
1,2,3-Trichloropropane	ug/kg	ND	5.0	03/16/13 02:06	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	03/16/13 02:06	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/16/13 02:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	03/16/13 02:06	
1,2-Dichlorobenzene	ug/kg	ND	5.0	03/16/13 02:06	
1,2-Dichloroethane	ug/kg	ND	5.0	03/16/13 02:06	
1,2-Dichloropropane	ug/kg	ND	5.0	03/16/13 02:06	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/16/13 02:06	
1,3-Dichlorobenzene	ug/kg	ND	5.0	03/16/13 02:06	
1,3-Dichloropropane	ug/kg	ND	5.0	03/16/13 02:06	
1,4-Dichlorobenzene	ug/kg	ND	5.0	03/16/13 02:06	
2,2-Dichloropropane	ug/kg	ND	5.0	03/16/13 02:06	
2-Butanone (MEK)	ug/kg	ND	25.0	03/16/13 02:06	
2-Chlorotoluene	ug/kg	ND	5.0	03/16/13 02:06	
2-Hexanone	ug/kg	ND	100	03/16/13 02:06	
4-Chlorotoluene	ug/kg	ND	5.0	03/16/13 02:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	03/16/13 02:06	
Acetone	ug/kg	ND	100	03/16/13 02:06	
Acrolein	ug/kg	ND	100	03/16/13 02:06	
Acrylonitrile	ug/kg	ND	100	03/16/13 02:06	
Benzene	ug/kg	ND	5.0	03/16/13 02:06	
Bromobenzene	ug/kg	ND	5.0	03/16/13 02:06	
Bromochloromethane	ug/kg	ND	5.0	03/16/13 02:06	
Bromodichloromethane	ug/kg	ND	5.0	03/16/13 02:06	
Bromoform	ug/kg	ND	5.0	03/16/13 02:06	
Bromomethane	ug/kg	ND	5.0	03/16/13 02:06	
Carbon disulfide	ug/kg	ND	10.0	03/16/13 02:06	
Carbon tetrachloride	ug/kg	ND	5.0	03/16/13 02:06	
Chlorobenzene	ug/kg	ND	5.0	03/16/13 02:06	
Chloroethane	ug/kg	ND	5.0	03/16/13 02:06	
Chloroform	ug/kg	ND	5.0	03/16/13 02:06	
Chloromethane	ug/kg	ND	5.0	03/16/13 02:06	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	03/16/13 02:06	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	03/16/13 02:06	
Dibromochloromethane	ug/kg	ND	5.0	03/16/13 02:06	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

METHOD BLANK: 885936 Matrix: Solid

Associated Lab Samples: 5077222001, 5077222002, 5077222003, 5077222004, 5077222005, 5077222006, 5077222007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	03/16/13 02:06	
Dichlorodifluoromethane	ug/kg	ND	5.0	03/16/13 02:06	
Ethyl methacrylate	ug/kg	ND	100	03/16/13 02:06	
Ethylbenzene	ug/kg	ND	5.0	03/16/13 02:06	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	03/16/13 02:06	
Iodomethane	ug/kg	ND	100	03/16/13 02:06	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/16/13 02:06	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/16/13 02:06	
Methylene Chloride	ug/kg	ND	20.0	03/16/13 02:06	
n-Butylbenzene	ug/kg	ND	5.0	03/16/13 02:06	
n-Hexane	ug/kg	ND	5.0	03/16/13 02:06	N2
n-Propylbenzene	ug/kg	ND	5.0	03/16/13 02:06	
Naphthalene	ug/kg	ND	5.0	03/16/13 02:06	
p-Isopropyltoluene	ug/kg	ND	5.0	03/16/13 02:06	
sec-Butylbenzene	ug/kg	ND	5.0	03/16/13 02:06	
Styrene	ug/kg	ND	5.0	03/16/13 02:06	
tert-Butylbenzene	ug/kg	ND	5.0	03/16/13 02:06	
Tetrachloroethene	ug/kg	ND	5.0	03/16/13 02:06	
Toluene	ug/kg	ND	5.0	03/16/13 02:06	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	03/16/13 02:06	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	03/16/13 02:06	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	03/16/13 02:06	
Trichloroethene	ug/kg	ND	5.0	03/16/13 02:06	
Trichlorofluoromethane	ug/kg	ND	5.0	03/16/13 02:06	
Vinyl acetate	ug/kg	ND	100	03/16/13 02:06	
Vinyl chloride	ug/kg	ND	5.0	03/16/13 02:06	
Xylene (Total)	ug/kg	ND	10.0	03/16/13 02:06	
4-Bromofluorobenzene (S)	%.	90	67-134	03/16/13 02:06	
Dibromofluoromethane (S)	%.	107	71-125	03/16/13 02:06	
Toluene-d8 (S)	%.	109	76-124	03/16/13 02:06	

LABORATORY CONTROL SAMPLE: 885937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	55.8	112	68-125	
1,1,1-Trichloroethane	ug/kg	50	56.8	114	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	54.0	108	73-123	
1,1,2-Trichloroethane	ug/kg	50	56.2	112	70-124	
1,1-Dichloroethane	ug/kg	50	54.4	109	63-122	
1,1-Dichloroethene	ug/kg	50	55.3	111	71-129	
1,1-Dichloropropene	ug/kg	50	55.2	110	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	50.6	101	68-123	
1,2,3-Trichloropropane	ug/kg	50	50.9	102	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	52.3	105	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	56.2	112	69-120	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

LABORATORY CONTROL SAMPLE: 885937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	52.4	105	67-121	
1,2-Dichlorobenzene	ug/kg	50	52.0	104	71-121	
1,2-Dichloroethane	ug/kg	50	56.9	114	74-120	
1,2-Dichloropropane	ug/kg	50	51.9	104	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	55.8	112	64-119	
1,3-Dichlorobenzene	ug/kg	50	51.8	104	70-122	
1,3-Dichloropropane	ug/kg	50	51.0	102	68-118	
1,4-Dichlorobenzene	ug/kg	50	53.7	107	71-118	
2,2-Dichloropropane	ug/kg	50	52.6	105	62-119	
2-Butanone (MEK)	ug/kg	250	238	95	38-154	
2-Chlorotoluene	ug/kg	50	56.3	113	71-120	
2-Hexanone	ug/kg	250	249	100	50-134	
4-Chlorotoluene	ug/kg	50	53.5	107	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	256	102	66-122	
Acetone	ug/kg	250	276	110	10-200	
Acrolein	ug/kg	1000	1280	128	11-200	
Acrylonitrile	ug/kg	1000	956	96	66-120	
Benzene	ug/kg	50	52.8	106	73-115	
Bromobenzene	ug/kg	50	52.8	106	64-130	
Bromochloromethane	ug/kg	50	68.9	138	71-127	L3
Bromodichloromethane	ug/kg	50	52.2	104	60-121	
Bromoform	ug/kg	50	42.2	84	44-130	
Bromomethane	ug/kg	50	64.1	128	48-175	
Carbon disulfide	ug/kg	100	108	108	71-126	
Carbon tetrachloride	ug/kg	50	58.5	117	57-127	
Chlorobenzene	ug/kg	50	53.8	108	72-121	
Chloroethane	ug/kg	50	57.1	114	72-141	
Chloroform	ug/kg	50	57.7	115	74-114	L3
Chloromethane	ug/kg	50	53.7	107	51-126	
cis-1,2-Dichloroethene	ug/kg	50	52.0	104	72-115	
cis-1,3-Dichloropropene	ug/kg	50	55.3	111	64-115	
Dibromochloromethane	ug/kg	50	49.9	100	58-114	
Dibromomethane	ug/kg	50	54.6	109	73-120	
Dichlorodifluoromethane	ug/kg	50	72.4	145	32-167	
Ethyl methacrylate	ug/kg	200	196	98	65-117	
Ethylbenzene	ug/kg	50	54.4	109	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	51.6	103	65-121	
Iodomethane	ug/kg	100	106	106	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	54.8	110	74-123	
Methyl-tert-butyl ether	ug/kg	100	97.3	97	69-123	
Methylene Chloride	ug/kg	50	53.3	107	58-124	
n-Butylbenzene	ug/kg	50	56.0	112	71-118	
n-Hexane	ug/kg	50	48.5	97	50-106	N2
n-Propylbenzene	ug/kg	50	57.3	115	70-120	
Naphthalene	ug/kg	50	47.0	94	67-124	
p-Isopropyltoluene	ug/kg	50	56.0	112	71-123	
sec-Butylbenzene	ug/kg	50	59.0	118	66-122	
Styrene	ug/kg	50	55.3	111	75-118	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

LABORATORY CONTROL SAMPLE: 885937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	47.5	95	54-124	
Tetrachloroethene	ug/kg	50	53.5	107	66-126	
Toluene	ug/kg	50	54.8	110	69-115	
trans-1,2-Dichloroethene	ug/kg	50	54.8	110	69-120	
trans-1,3-Dichloropropene	ug/kg	50	53.8	108	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	198	99	59-130	
Trichloroethene	ug/kg	50	57.1	114	71-117	
Trichlorofluoromethane	ug/kg	50	68.1	136	67-138	
Vinyl acetate	ug/kg	200	111	55	35-134	
Vinyl chloride	ug/kg	50	62.9	126	64-127	
Xylene (Total)	ug/kg	150	163	108	69-117	
4-Bromofluorobenzene (S)	%.			97	67-134	
Dibromofluoromethane (S)	%.			104	71-125	
Toluene-d8 (S)	%.			106	76-124	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077222

QC Batch: PMST/8045 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5077222001, 5077222002, 5077222003, 5077222004, 5077222005, 5077222006, 5077222007

SAMPLE DUPLICATE: 883088

Parameter	Units	5077207019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.3	7.0	10	5	R1

SAMPLE DUPLICATE: 883186

Parameter	Units	5077234001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	8.6	0	5	

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077222

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 34 ug/kg based on the MDL. grm 3-18-13
2d	VC ND at an estimated RL of 23 ug/kg based on the MDL. grm 3-18-13
D4	Sample was diluted due to the presence of high levels of target analytes.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077222

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077222008	Trip Blank	EPA 8260	MSV/51327		
5077222001	MMW-14D-A (44-46')	EPA 8260	MSV/51326		
5077222002	MMW-14D-A (50-52')	EPA 8260	MSV/51326		
5077222003	SB-102 (12-14')	EPA 8260	MSV/51326		
5077222004	MMW-P-02-A (12-14')	EPA 8260	MSV/51326		
5077222005	MMW-P-02A (20-22')	EPA 8260	MSV/51326		
5077222006	MMW-P-03-D-A (38-40')	EPA 8260	MSV/51326		
5077222007	Dup-1	EPA 8260	MSV/51326		
5077222001	MMW-14D-A (44-46')	ASTM D2974-87	PMST/8045		
5077222002	MMW-14D-A (50-52')	ASTM D2974-87	PMST/8045		
5077222003	SB-102 (12-14')	ASTM D2974-87	PMST/8045		
5077222004	MMW-P-02-A (12-14')	ASTM D2974-87	PMST/8045		
5077222005	MMW-P-02A (20-22')	ASTM D2974-87	PMST/8045		
5077222006	MMW-P-03-D-A (38-40')	ASTM D2974-87	PMST/8045		
5077222007	Dup-1	ASTM D2974-87	PMST/8045		

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March 22, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077253

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077253

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077253001	SB-103 (4-6)	Solid	03/08/13 13:30	03/08/13 16:37
5077253002	MMW-P-04-A (16-18)	Solid	03/08/13 09:25	03/08/13 16:37
5077253003	MMW-P-07-A (20-22)	Solid	03/08/13 10:10	03/08/13 16:37
5077253004	MMW-P-10D-A (22-24)	Solid	03/08/13 11:30	03/08/13 16:37
5077253005	SB-103 (16-18)	Solid	03/08/13 13:40	03/08/13 16:37
5077253006	SB-103 (34-36)	Solid	03/08/13 14:00	03/08/13 16:37
5077253007	MMW-P-10D-A (32-34)	Solid	03/08/13 11:40	03/08/13 16:37
5077253008	MMW-P-10D-A (36-36)	Solid	03/08/13 11:50	03/08/13 16:37
5077253009	Trip Blank	Water	03/08/13 08:30	03/08/13 16:37

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077253

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077253001	SB-103 (4-6)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253002	MMW-P-04-A (16-18)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253003	MMW-P-07-A (20-22)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253004	MMW-P-10D-A (22-24)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253005	SB-103 (16-18)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253006	SB-103 (34-36)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253007	MMW-P-10D-A (32-34)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253008	MMW-P-10D-A (36-36)	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077253009	Trip Blank	EPA 8260	GRM	73

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: SB-103 (4-6) **Lab ID: 5077253001** **Collected: 03/08/13 13:30** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	83.3	1		03/19/13 02:21	67-64-1	
Acrolein	ND	ug/kg	83.3	1		03/19/13 02:21	107-02-8	
Acrylonitrile	ND	ug/kg	83.3	1		03/19/13 02:21	107-13-1	
Benzene	ND	ug/kg	4.2	1		03/19/13 02:21	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		03/19/13 02:21	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		03/19/13 02:21	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		03/19/13 02:21	75-27-4	
Bromoform	ND	ug/kg	4.2	1		03/19/13 02:21	75-25-2	
Bromomethane	ND	ug/kg	4.2	1		03/19/13 02:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.8	1		03/19/13 02:21	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		03/19/13 02:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		03/19/13 02:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		03/19/13 02:21	98-06-6	
Carbon disulfide	ND	ug/kg	8.3	1		03/19/13 02:21	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	1		03/19/13 02:21	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		03/19/13 02:21	108-90-7	
Chloroethane	ND	ug/kg	4.2	1		03/19/13 02:21	75-00-3	
Chloroform	ND	ug/kg	4.2	1		03/19/13 02:21	67-66-3	
Chloromethane	ND	ug/kg	4.2	1		03/19/13 02:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		03/19/13 02:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		03/19/13 02:21	106-43-4	
Dibromochloromethane	ND	ug/kg	4.2	1		03/19/13 02:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		03/19/13 02:21	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		03/19/13 02:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		03/19/13 02:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		03/19/13 02:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		03/19/13 02:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	83.3	1		03/19/13 02:21	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.2	1		03/19/13 02:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		03/19/13 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		03/19/13 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		03/19/13 02:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		03/19/13 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		03/19/13 02:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		03/19/13 02:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		03/19/13 02:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		03/19/13 02:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		03/19/13 02:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		03/19/13 02:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		03/19/13 02:21	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	1		03/19/13 02:21	100-41-4	
Ethyl methacrylate	ND	ug/kg	83.3	1		03/19/13 02:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		03/19/13 02:21	87-68-3	
n-Hexane	8.9	ug/kg	4.2	1		03/19/13 02:21	110-54-3	N2
2-Hexanone	ND	ug/kg	83.3	1		03/19/13 02:21	591-78-6	
Iodomethane	ND	ug/kg	83.3	1		03/19/13 02:21	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: SB-103 (4-6) **Lab ID: 5077253001** **Collected: 03/08/13 13:30** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		03/19/13 02:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		03/19/13 02:21	99-87-6	
Methylene Chloride	ND	ug/kg	16.7	1		03/19/13 02:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.8	1		03/19/13 02:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		03/19/13 02:21	1634-04-4	
Naphthalene	ND	ug/kg	4.2	1		03/19/13 02:21	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		03/19/13 02:21	103-65-1	
Styrene	ND	ug/kg	4.2	1		03/19/13 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		03/19/13 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		03/19/13 02:21	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		03/19/13 02:21	127-18-4	
Toluene	ND	ug/kg	4.2	1		03/19/13 02:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		03/19/13 02:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		03/19/13 02:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		03/19/13 02:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		03/19/13 02:21	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		03/19/13 02:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		03/19/13 02:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		03/19/13 02:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		03/19/13 02:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		03/19/13 02:21	108-67-8	
Vinyl acetate	ND	ug/kg	83.3	1		03/19/13 02:21	108-05-4	
Vinyl chloride	ND	ug/kg	4.2	1		03/19/13 02:21	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		03/19/13 02:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	71-125	1		03/19/13 02:21	1868-53-7	
Toluene-d8 (S)	110	%.	76-124	1		03/19/13 02:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	67-134	1		03/19/13 02:21	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	4.4	%	0.10	1		03/13/13 10:33		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-04-A (16-18) **Lab ID: 5077253002** **Collected: 03/08/13 09:25** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	86.9	1		03/19/13 02:56	67-64-1	
Acrolein	ND	ug/kg	86.9	1		03/19/13 02:56	107-02-8	
Acrylonitrile	ND	ug/kg	86.9	1		03/19/13 02:56	107-13-1	
Benzene	ND	ug/kg	4.3	1		03/19/13 02:56	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		03/19/13 02:56	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		03/19/13 02:56	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		03/19/13 02:56	75-27-4	
Bromoform	ND	ug/kg	4.3	1		03/19/13 02:56	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		03/19/13 02:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.7	1		03/19/13 02:56	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		03/19/13 02:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		03/19/13 02:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		03/19/13 02:56	98-06-6	
Carbon disulfide	ND	ug/kg	8.7	1		03/19/13 02:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		03/19/13 02:56	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		03/19/13 02:56	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		03/19/13 02:56	75-00-3	
Chloroform	ND	ug/kg	4.3	1		03/19/13 02:56	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		03/19/13 02:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		03/19/13 02:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		03/19/13 02:56	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		03/19/13 02:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		03/19/13 02:56	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		03/19/13 02:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		03/19/13 02:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		03/19/13 02:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		03/19/13 02:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	86.9	1		03/19/13 02:56	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		03/19/13 02:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		03/19/13 02:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		03/19/13 02:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		03/19/13 02:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/19/13 02:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		03/19/13 02:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		03/19/13 02:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		03/19/13 02:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		03/19/13 02:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		03/19/13 02:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/19/13 02:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		03/19/13 02:56	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		03/19/13 02:56	100-41-4	
Ethyl methacrylate	ND	ug/kg	86.9	1		03/19/13 02:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		03/19/13 02:56	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		03/19/13 02:56	110-54-3	N2
2-Hexanone	ND	ug/kg	86.9	1		03/19/13 02:56	591-78-6	
Iodomethane	ND	ug/kg	86.9	1		03/19/13 02:56	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-04-A (16-18) **Lab ID: 5077253002** **Collected: 03/08/13 09:25** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		03/19/13 02:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		03/19/13 02:56	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		03/19/13 02:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.7	1		03/19/13 02:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		03/19/13 02:56	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		03/19/13 02:56	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		03/19/13 02:56	103-65-1	
Styrene	ND	ug/kg	4.3	1		03/19/13 02:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/19/13 02:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		03/19/13 02:56	79-34-5	
Tetrachloroethene	198	ug/kg	4.3	1		03/19/13 02:56	127-18-4	
Toluene	ND	ug/kg	4.3	1		03/19/13 02:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		03/19/13 02:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		03/19/13 02:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		03/19/13 02:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		03/19/13 02:56	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		03/19/13 02:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		03/19/13 02:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		03/19/13 02:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		03/19/13 02:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		03/19/13 02:56	108-67-8	
Vinyl acetate	ND	ug/kg	86.9	1		03/19/13 02:56	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		03/19/13 02:56	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		03/19/13 02:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	71-125	1		03/19/13 02:56	1868-53-7	
Toluene-d8 (S)	109	%.	76-124	1		03/19/13 02:56	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	67-134	1		03/19/13 02:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	5.5	%	0.10	1		03/13/13 10:44		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-07-A (20-22) **Lab ID: 5077253003** **Collected: 03/08/13 10:10** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	82.5	1		03/19/13 03:31	67-64-1	
Acrolein	ND	ug/kg	82.5	1		03/19/13 03:31	107-02-8	
Acrylonitrile	ND	ug/kg	82.5	1		03/19/13 03:31	107-13-1	
Benzene	ND	ug/kg	4.1	1		03/19/13 03:31	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		03/19/13 03:31	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		03/19/13 03:31	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		03/19/13 03:31	75-27-4	
Bromoform	ND	ug/kg	4.1	1		03/19/13 03:31	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		03/19/13 03:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.6	1		03/19/13 03:31	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		03/19/13 03:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		03/19/13 03:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		03/19/13 03:31	98-06-6	
Carbon disulfide	ND	ug/kg	8.2	1		03/19/13 03:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		03/19/13 03:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		03/19/13 03:31	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		03/19/13 03:31	75-00-3	
Chloroform	ND	ug/kg	4.1	1		03/19/13 03:31	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		03/19/13 03:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		03/19/13 03:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		03/19/13 03:31	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		03/19/13 03:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		03/19/13 03:31	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		03/19/13 03:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		03/19/13 03:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		03/19/13 03:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		03/19/13 03:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	82.5	1		03/19/13 03:31	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		03/19/13 03:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		03/19/13 03:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		03/19/13 03:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		03/19/13 03:31	75-35-4	
cis-1,2-Dichloroethene	**2880**	ug/kg	200	50		03/19/13 18:57	156-59-2	
trans-1,2-Dichloroethene	**14.8**	ug/kg	4.1	1		03/19/13 03:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		03/19/13 03:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		03/19/13 03:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		03/19/13 03:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		03/19/13 03:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		03/19/13 03:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		03/19/13 03:31	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		03/19/13 03:31	100-41-4	
Ethyl methacrylate	ND	ug/kg	82.5	1		03/19/13 03:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		03/19/13 03:31	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		03/19/13 03:31	110-54-3	N2
2-Hexanone	ND	ug/kg	82.5	1		03/19/13 03:31	591-78-6	
Iodomethane	ND	ug/kg	82.5	1		03/19/13 03:31	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-07-A (20-22) **Lab ID: 5077253003** **Collected: 03/08/13 10:10** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		03/19/13 03:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		03/19/13 03:31	99-87-6	
Methylene Chloride	ND	ug/kg	16.5	1		03/19/13 03:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.6	1		03/19/13 03:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		03/19/13 03:31	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		03/19/13 03:31	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		03/19/13 03:31	103-65-1	
Styrene	ND	ug/kg	4.1	1		03/19/13 03:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		03/19/13 03:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		03/19/13 03:31	79-34-5	
Tetrachloroethene	16.4	ug/kg	4.1	1		03/19/13 03:31	127-18-4	
Toluene	ND	ug/kg	4.1	1		03/19/13 03:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		03/19/13 03:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		03/19/13 03:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		03/19/13 03:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		03/19/13 03:31	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		03/19/13 03:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		03/19/13 03:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		03/19/13 03:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		03/19/13 03:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		03/19/13 03:31	108-67-8	
Vinyl acetate	ND	ug/kg	82.5	1		03/19/13 03:31	108-05-4	
Vinyl chloride	982	ug/kg	200	50		03/19/13 18:57	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		03/19/13 03:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	71-125	1		03/19/13 03:31	1868-53-7	
Toluene-d8 (S)	110	%.	76-124	1		03/19/13 03:31	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	67-134	1		03/19/13 03:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	8.1	%	0.10	1		03/13/13 10:44		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-10D-A (22-24) **Lab ID: 5077253004** **Collected: 03/08/13 11:30** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	65.1	1		03/19/13 04:05	67-64-1	
Acrolein	ND	ug/kg	65.1	1		03/19/13 04:05	107-02-8	
Acrylonitrile	ND	ug/kg	65.1	1		03/19/13 04:05	107-13-1	
Benzene	ND	ug/kg	3.3	1		03/19/13 04:05	71-43-2	
Bromobenzene	ND	ug/kg	3.3	1		03/19/13 04:05	108-86-1	
Bromochloromethane	ND	ug/kg	3.3	1		03/19/13 04:05	74-97-5	
Bromodichloromethane	ND	ug/kg	3.3	1		03/19/13 04:05	75-27-4	
Bromoform	ND	ug/kg	3.3	1		03/19/13 04:05	75-25-2	
Bromomethane	ND	ug/kg	3.3	1		03/19/13 04:05	74-83-9	
2-Butanone (MEK)	ND	ug/kg	16.3	1		03/19/13 04:05	78-93-3	
n-Butylbenzene	ND	ug/kg	3.3	1		03/19/13 04:05	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.3	1		03/19/13 04:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.3	1		03/19/13 04:05	98-06-6	
Carbon disulfide	ND	ug/kg	6.5	1		03/19/13 04:05	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.3	1		03/19/13 04:05	56-23-5	
Chlorobenzene	ND	ug/kg	3.3	1		03/19/13 04:05	108-90-7	
Chloroethane	ND	ug/kg	3.3	1		03/19/13 04:05	75-00-3	
Chloroform	ND	ug/kg	3.3	1		03/19/13 04:05	67-66-3	
Chloromethane	ND	ug/kg	3.3	1		03/19/13 04:05	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.3	1		03/19/13 04:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.3	1		03/19/13 04:05	106-43-4	
Dibromochloromethane	ND	ug/kg	3.3	1		03/19/13 04:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.3	1		03/19/13 04:05	106-93-4	
Dibromomethane	ND	ug/kg	3.3	1		03/19/13 04:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.3	1		03/19/13 04:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.3	1		03/19/13 04:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.3	1		03/19/13 04:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	65.1	1		03/19/13 04:05	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.3	1		03/19/13 04:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.3	1		03/19/13 04:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.3	1		03/19/13 04:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.3	1		03/19/13 04:05	75-35-4	
cis-1,2-Dichloroethene	4.1	ug/kg	3.3	1		03/19/13 04:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.3	1		03/19/13 04:05	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.3	1		03/19/13 04:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.3	1		03/19/13 04:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.3	1		03/19/13 04:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.3	1		03/19/13 04:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.3	1		03/19/13 04:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.3	1		03/19/13 04:05	10061-02-6	
Ethylbenzene	ND	ug/kg	3.3	1		03/19/13 04:05	100-41-4	
Ethyl methacrylate	ND	ug/kg	65.1	1		03/19/13 04:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.3	1		03/19/13 04:05	87-68-3	
n-Hexane	ND	ug/kg	3.3	1		03/19/13 04:05	110-54-3	N2
2-Hexanone	ND	ug/kg	65.1	1		03/19/13 04:05	591-78-6	
Iodomethane	ND	ug/kg	65.1	1		03/19/13 04:05	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-10D-A (22-24) **Lab ID: 5077253004** **Collected: 03/08/13 11:30** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.3	1		03/19/13 04:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.3	1		03/19/13 04:05	99-87-6	
Methylene Chloride	ND	ug/kg	13.0	1		03/19/13 04:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	16.3	1		03/19/13 04:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.3	1		03/19/13 04:05	1634-04-4	
Naphthalene	ND	ug/kg	3.3	1		03/19/13 04:05	91-20-3	
n-Propylbenzene	ND	ug/kg	3.3	1		03/19/13 04:05	103-65-1	
Styrene	ND	ug/kg	3.3	1		03/19/13 04:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.3	1		03/19/13 04:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.3	1		03/19/13 04:05	79-34-5	
Tetrachloroethene	ND	ug/kg	3.3	1		03/19/13 04:05	127-18-4	
Toluene	ND	ug/kg	3.3	1		03/19/13 04:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.3	1		03/19/13 04:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.3	1		03/19/13 04:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.3	1		03/19/13 04:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.3	1		03/19/13 04:05	79-00-5	
Trichloroethene	ND	ug/kg	3.3	1		03/19/13 04:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.3	1		03/19/13 04:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.3	1		03/19/13 04:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.3	1		03/19/13 04:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.3	1		03/19/13 04:05	108-67-8	
Vinyl acetate	ND	ug/kg	65.1	1		03/19/13 04:05	108-05-4	
Vinyl chloride	10.8	ug/kg	3.3	1		03/19/13 04:05	75-01-4	
Xylene (Total)	ND	ug/kg	6.5	1		03/19/13 04:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	71-125	1		03/19/13 04:05	1868-53-7	
Toluene-d8 (S)	109	%.	76-124	1		03/19/13 04:05	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	67-134	1		03/19/13 04:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	8.3	%	0.10	1		03/13/13 10:44		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: SB-103 (16-18) **Lab ID: 5077253005** **Collected: 03/08/13 13:40** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	71.0	1		03/19/13 04:40	67-64-1	
Acrolein	ND	ug/kg	71.0	1		03/19/13 04:40	107-02-8	
Acrylonitrile	ND	ug/kg	71.0	1		03/19/13 04:40	107-13-1	
Benzene	ND	ug/kg	3.5	1		03/19/13 04:40	71-43-2	
Bromobenzene	ND	ug/kg	3.5	1		03/19/13 04:40	108-86-1	
Bromochloromethane	ND	ug/kg	3.5	1		03/19/13 04:40	74-97-5	
Bromodichloromethane	ND	ug/kg	3.5	1		03/19/13 04:40	75-27-4	
Bromoform	ND	ug/kg	3.5	1		03/19/13 04:40	75-25-2	
Bromomethane	ND	ug/kg	3.5	1		03/19/13 04:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.7	1		03/19/13 04:40	78-93-3	
n-Butylbenzene	ND	ug/kg	3.5	1		03/19/13 04:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.5	1		03/19/13 04:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.5	1		03/19/13 04:40	98-06-6	
Carbon disulfide	ND	ug/kg	7.1	1		03/19/13 04:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.5	1		03/19/13 04:40	56-23-5	
Chlorobenzene	ND	ug/kg	3.5	1		03/19/13 04:40	108-90-7	
Chloroethane	ND	ug/kg	3.5	1		03/19/13 04:40	75-00-3	
Chloroform	ND	ug/kg	3.5	1		03/19/13 04:40	67-66-3	
Chloromethane	ND	ug/kg	3.5	1		03/19/13 04:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.5	1		03/19/13 04:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.5	1		03/19/13 04:40	106-43-4	
Dibromochloromethane	ND	ug/kg	3.5	1		03/19/13 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.5	1		03/19/13 04:40	106-93-4	
Dibromomethane	ND	ug/kg	3.5	1		03/19/13 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.5	1		03/19/13 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.5	1		03/19/13 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.5	1		03/19/13 04:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	71.0	1		03/19/13 04:40	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.5	1		03/19/13 04:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.5	1		03/19/13 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.5	1		03/19/13 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.5	1		03/19/13 04:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.5	1		03/19/13 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.5	1		03/19/13 04:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.5	1		03/19/13 04:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.5	1		03/19/13 04:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.5	1		03/19/13 04:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.5	1		03/19/13 04:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.5	1		03/19/13 04:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.5	1		03/19/13 04:40	10061-02-6	
Ethylbenzene	ND	ug/kg	3.5	1		03/19/13 04:40	100-41-4	
Ethyl methacrylate	ND	ug/kg	71.0	1		03/19/13 04:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.5	1		03/19/13 04:40	87-68-3	
n-Hexane	ND	ug/kg	3.5	1		03/19/13 04:40	110-54-3	N2
2-Hexanone	ND	ug/kg	71.0	1		03/19/13 04:40	591-78-6	
Iodomethane	ND	ug/kg	71.0	1		03/19/13 04:40	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: SB-103 (16-18) **Lab ID: 5077253005** **Collected: 03/08/13 13:40** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.5	1		03/19/13 04:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.5	1		03/19/13 04:40	99-87-6	
Methylene Chloride	ND	ug/kg	14.2	1		03/19/13 04:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.7	1		03/19/13 04:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.5	1		03/19/13 04:40	1634-04-4	
Naphthalene	ND	ug/kg	3.5	1		03/19/13 04:40	91-20-3	
n-Propylbenzene	ND	ug/kg	3.5	1		03/19/13 04:40	103-65-1	
Styrene	ND	ug/kg	3.5	1		03/19/13 04:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.5	1		03/19/13 04:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.5	1		03/19/13 04:40	79-34-5	
Tetrachloroethene	ND	ug/kg	3.5	1		03/19/13 04:40	127-18-4	
Toluene	ND	ug/kg	3.5	1		03/19/13 04:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.5	1		03/19/13 04:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.5	1		03/19/13 04:40	120-82-1	
1,1,1-Trichloroethane	4.5	ug/kg	3.5	1		03/19/13 04:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.5	1		03/19/13 04:40	79-00-5	
Trichloroethene	ND	ug/kg	3.5	1		03/19/13 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.5	1		03/19/13 04:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.5	1		03/19/13 04:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.5	1		03/19/13 04:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.5	1		03/19/13 04:40	108-67-8	
Vinyl acetate	ND	ug/kg	71.0	1		03/19/13 04:40	108-05-4	
Vinyl chloride	ND	ug/kg	3.5	1		03/19/13 04:40	75-01-4	
Xylene (Total)	ND	ug/kg	7.1	1		03/19/13 04:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	71-125	1		03/19/13 04:40	1868-53-7	
Toluene-d8 (S)	110	%.	76-124	1		03/19/13 04:40	2037-26-5	
4-Bromofluorobenzene (S)	89	%.	67-134	1		03/19/13 04:40	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	7.5	%	0.10	1		03/13/13 10:44		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: SB-103 (34-36) **Lab ID: 5077253006** **Collected: 03/08/13 14:00** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	91.1	1		03/19/13 05:15	67-64-1	
Acrolein	ND	ug/kg	91.1	1		03/19/13 05:15	107-02-8	
Acrylonitrile	ND	ug/kg	91.1	1		03/19/13 05:15	107-13-1	
Benzene	ND	ug/kg	4.6	1		03/19/13 05:15	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		03/19/13 05:15	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		03/19/13 05:15	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		03/19/13 05:15	75-27-4	
Bromoform	ND	ug/kg	4.6	1		03/19/13 05:15	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		03/19/13 05:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.8	1		03/19/13 05:15	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		03/19/13 05:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		03/19/13 05:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		03/19/13 05:15	98-06-6	
Carbon disulfide	ND	ug/kg	9.1	1		03/19/13 05:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		03/19/13 05:15	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		03/19/13 05:15	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		03/19/13 05:15	75-00-3	
Chloroform	ND	ug/kg	4.6	1		03/19/13 05:15	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		03/19/13 05:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		03/19/13 05:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		03/19/13 05:15	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		03/19/13 05:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		03/19/13 05:15	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		03/19/13 05:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		03/19/13 05:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		03/19/13 05:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		03/19/13 05:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	91.1	1		03/19/13 05:15	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		03/19/13 05:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		03/19/13 05:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		03/19/13 05:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		03/19/13 05:15	75-35-4	
cis-1,2-Dichloroethene	1260	ug/kg	223	50		03/19/13 19:31	156-59-2	
trans-1,2-Dichloroethene	9.8	ug/kg	4.6	1		03/19/13 05:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		03/19/13 05:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		03/19/13 05:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		03/19/13 05:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		03/19/13 05:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		03/19/13 05:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		03/19/13 05:15	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		03/19/13 05:15	100-41-4	
Ethyl methacrylate	ND	ug/kg	91.1	1		03/19/13 05:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		03/19/13 05:15	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		03/19/13 05:15	110-54-3	N2
2-Hexanone	ND	ug/kg	91.1	1		03/19/13 05:15	591-78-6	
Iodomethane	ND	ug/kg	91.1	1		03/19/13 05:15	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: SB-103 (34-36) **Lab ID: 5077253006** **Collected: 03/08/13 14:00** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		03/19/13 05:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		03/19/13 05:15	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		03/19/13 05:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.8	1		03/19/13 05:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		03/19/13 05:15	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		03/19/13 05:15	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		03/19/13 05:15	103-65-1	
Styrene	ND	ug/kg	4.6	1		03/19/13 05:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		03/19/13 05:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		03/19/13 05:15	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		03/19/13 05:15	127-18-4	
Toluene	ND	ug/kg	4.6	1		03/19/13 05:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		03/19/13 05:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		03/19/13 05:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		03/19/13 05:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		03/19/13 05:15	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		03/19/13 05:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		03/19/13 05:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		03/19/13 05:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		03/19/13 05:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		03/19/13 05:15	108-67-8	
Vinyl acetate	ND	ug/kg	91.1	1		03/19/13 05:15	108-05-4	
Vinyl chloride	14.1	ug/kg	4.6	1		03/19/13 05:15	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		03/19/13 05:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	71-125	1		03/19/13 05:15	1868-53-7	
Toluene-d8 (S)	108	%.	76-124	1		03/19/13 05:15	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	67-134	1		03/19/13 05:15	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	16.7	%	0.10	1		03/13/13 10:44		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-10D-A (32-34) **Lab ID: 5077253007** **Collected: 03/08/13 11:40** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	95.4	1		03/19/13 18:23	67-64-1	
Acrolein	ND	ug/kg	95.4	1		03/19/13 18:23	107-02-8	
Acrylonitrile	ND	ug/kg	95.4	1		03/19/13 18:23	107-13-1	
Benzene	ND	ug/kg	4.8	1		03/19/13 18:23	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		03/19/13 18:23	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		03/19/13 18:23	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		03/19/13 18:23	75-27-4	
Bromoform	ND	ug/kg	4.8	1		03/19/13 18:23	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		03/19/13 18:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.9	1		03/19/13 18:23	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		03/19/13 18:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		03/19/13 18:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		03/19/13 18:23	98-06-6	
Carbon disulfide	ND	ug/kg	9.5	1		03/19/13 18:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		03/19/13 18:23	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		03/19/13 18:23	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		03/19/13 18:23	75-00-3	
Chloroform	ND	ug/kg	4.8	1		03/19/13 18:23	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		03/19/13 18:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		03/19/13 18:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		03/19/13 18:23	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		03/19/13 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		03/19/13 18:23	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		03/19/13 18:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		03/19/13 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		03/19/13 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		03/19/13 18:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.4	1		03/19/13 18:23	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		03/19/13 18:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		03/19/13 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		03/19/13 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		03/19/13 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		03/19/13 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		03/19/13 18:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		03/19/13 18:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		03/19/13 18:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		03/19/13 18:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		03/19/13 18:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/19/13 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/19/13 18:23	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		03/19/13 18:23	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.4	1		03/19/13 18:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		03/19/13 18:23	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		03/19/13 18:23	110-54-3	N2
2-Hexanone	ND	ug/kg	95.4	1		03/19/13 18:23	591-78-6	
Iodomethane	ND	ug/kg	95.4	1		03/19/13 18:23	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-10D-A (32-34) **Lab ID: 5077253007** **Collected: 03/08/13 11:40** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		03/19/13 18:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		03/19/13 18:23	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		03/19/13 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.9	1		03/19/13 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		03/19/13 18:23	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		03/19/13 18:23	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		03/19/13 18:23	103-65-1	
Styrene	ND	ug/kg	4.8	1		03/19/13 18:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/19/13 18:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/19/13 18:23	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		03/19/13 18:23	127-18-4	
Toluene	ND	ug/kg	4.8	1		03/19/13 18:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		03/19/13 18:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		03/19/13 18:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		03/19/13 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		03/19/13 18:23	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		03/19/13 18:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		03/19/13 18:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		03/19/13 18:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		03/19/13 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		03/19/13 18:23	108-67-8	
Vinyl acetate	ND	ug/kg	95.4	1		03/19/13 18:23	108-05-4	
Vinyl chloride	31.1	ug/kg	4.8	1		03/19/13 18:23	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		03/19/13 18:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	71-125	1		03/19/13 18:23	1868-53-7	
Toluene-d8 (S)	108	%.	76-124	1		03/19/13 18:23	2037-26-5	
4-Bromofluorobenzene (S)	91	%.	67-134	1		03/19/13 18:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	12.1	%	0.10	1		03/13/13 10:44		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-10D-A (36-38) **Lab ID: 5077253008** **Collected: 03/08/13 11:50** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	89.3	1		03/19/13 06:25	67-64-1	
Acrolein	ND	ug/kg	89.3	1		03/19/13 06:25	107-02-8	
Acrylonitrile	ND	ug/kg	89.3	1		03/19/13 06:25	107-13-1	
Benzene	ND	ug/kg	4.5	1		03/19/13 06:25	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		03/19/13 06:25	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		03/19/13 06:25	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		03/19/13 06:25	75-27-4	
Bromoform	ND	ug/kg	4.5	1		03/19/13 06:25	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		03/19/13 06:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.3	1		03/19/13 06:25	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		03/19/13 06:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		03/19/13 06:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		03/19/13 06:25	98-06-6	
Carbon disulfide	ND	ug/kg	8.9	1		03/19/13 06:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		03/19/13 06:25	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		03/19/13 06:25	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		03/19/13 06:25	75-00-3	
Chloroform	ND	ug/kg	4.5	1		03/19/13 06:25	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		03/19/13 06:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		03/19/13 06:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		03/19/13 06:25	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		03/19/13 06:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		03/19/13 06:25	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		03/19/13 06:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		03/19/13 06:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		03/19/13 06:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		03/19/13 06:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	89.3	1		03/19/13 06:25	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		03/19/13 06:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		03/19/13 06:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		03/19/13 06:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		03/19/13 06:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		03/19/13 06:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		03/19/13 06:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		03/19/13 06:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		03/19/13 06:25	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		03/19/13 06:25	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		03/19/13 06:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/19/13 06:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		03/19/13 06:25	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		03/19/13 06:25	100-41-4	
Ethyl methacrylate	ND	ug/kg	89.3	1		03/19/13 06:25	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		03/19/13 06:25	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		03/19/13 06:25	110-54-3	N2
2-Hexanone	ND	ug/kg	89.3	1		03/19/13 06:25	591-78-6	
Iodomethane	ND	ug/kg	89.3	1		03/19/13 06:25	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: MMW-P-10D-A (36-38) **Lab ID: 5077253008** **Collected: 03/08/13 11:50** **Received: 03/08/13 16:37** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		03/19/13 06:25	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		03/19/13 06:25	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		03/19/13 06:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.3	1		03/19/13 06:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		03/19/13 06:25	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		03/19/13 06:25	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		03/19/13 06:25	103-65-1	
Styrene	ND	ug/kg	4.5	1		03/19/13 06:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/19/13 06:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		03/19/13 06:25	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		03/19/13 06:25	127-18-4	
Toluene	ND	ug/kg	4.5	1		03/19/13 06:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		03/19/13 06:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		03/19/13 06:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		03/19/13 06:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		03/19/13 06:25	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		03/19/13 06:25	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		03/19/13 06:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		03/19/13 06:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		03/19/13 06:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		03/19/13 06:25	108-67-8	
Vinyl acetate	ND	ug/kg	89.3	1		03/19/13 06:25	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		03/19/13 06:25	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		03/19/13 06:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	71-125	1		03/19/13 06:25	1868-53-7	
Toluene-d8 (S)	109	%.	76-124	1		03/19/13 06:25	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	67-134	1		03/19/13 06:25	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	9.8	%	0.10	1		03/13/13 10:45		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: Trip Blank Lab ID: 5077253009 Collected: 03/08/13 08:30 Received: 03/08/13 16:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/21/13 22:05	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/21/13 22:05	107-02-8	
Acrylonitrile	ND	ug/L	100	1		03/21/13 22:05	107-13-1	
Benzene	ND	ug/L	5.0	1		03/21/13 22:05	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/21/13 22:05	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/21/13 22:05	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/21/13 22:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/21/13 22:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/21/13 22:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/21/13 22:05	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/21/13 22:05	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/21/13 22:05	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/21/13 22:05	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/21/13 22:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/21/13 22:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/21/13 22:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/21/13 22:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/21/13 22:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/21/13 22:05	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/21/13 22:05	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/21/13 22:05	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/21/13 22:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/21/13 22:05	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		03/21/13 22:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/21/13 22:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/21/13 22:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/21/13 22:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/21/13 22:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/21/13 22:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/21/13 22:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/21/13 22:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/21/13 22:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/21/13 22:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/21/13 22:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/21/13 22:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/21/13 22:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/21/13 22:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/21/13 22:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/21/13 22:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/21/13 22:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/21/13 22:05	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/21/13 22:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/21/13 22:05	87-68-3	
n-Hexane	ND	ug/L	5.0	1		03/21/13 22:05	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		03/21/13 22:05	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/21/13 22:05	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/21/13 22:05	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077253

Sample: Trip Blank Lab ID: 5077253009 Collected: 03/08/13 08:30 Received: 03/08/13 16:37 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		03/21/13 22:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/21/13 22:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/21/13 22:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/21/13 22:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		03/21/13 22:05	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		03/21/13 22:05	103-65-1	
Styrene	ND	ug/L	5.0	1		03/21/13 22:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/21/13 22:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/21/13 22:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/21/13 22:05	127-18-4	
Toluene	ND	ug/L	5.0	1		03/21/13 22:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/21/13 22:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/21/13 22:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/21/13 22:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/21/13 22:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/21/13 22:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/21/13 22:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/21/13 22:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/21/13 22:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/21/13 22:05	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/21/13 22:05	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/21/13 22:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/21/13 22:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	83-123	1		03/21/13 22:05	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		03/21/13 22:05	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		03/21/13 22:05	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

QC Batch: MSV/51359 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077253009

METHOD BLANK: 886624 Matrix: Water
Associated Lab Samples: 5077253009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/21/13 14:11	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/21/13 14:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/21/13 14:11	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/21/13 14:11	
1,1-Dichloroethane	ug/L	ND	5.0	03/21/13 14:11	
1,1-Dichloroethene	ug/L	ND	5.0	03/21/13 14:11	
1,1-Dichloropropene	ug/L	ND	5.0	03/21/13 14:11	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/21/13 14:11	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/21/13 14:11	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/21/13 14:11	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/21/13 14:11	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/21/13 14:11	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/21/13 14:11	
1,2-Dichloroethane	ug/L	ND	5.0	03/21/13 14:11	
1,2-Dichloropropane	ug/L	ND	5.0	03/21/13 14:11	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/21/13 14:11	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/21/13 14:11	
1,3-Dichloropropane	ug/L	ND	5.0	03/21/13 14:11	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/21/13 14:11	
2,2-Dichloropropane	ug/L	ND	5.0	03/21/13 14:11	
2-Butanone (MEK)	ug/L	ND	25.0	03/21/13 14:11	
2-Chlorotoluene	ug/L	ND	5.0	03/21/13 14:11	
2-Hexanone	ug/L	ND	25.0	03/21/13 14:11	
4-Chlorotoluene	ug/L	ND	5.0	03/21/13 14:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/21/13 14:11	
Acetone	ug/L	ND	100	03/21/13 14:11	
Acrolein	ug/L	ND	50.0	03/21/13 14:11	
Acrylonitrile	ug/L	ND	100	03/21/13 14:11	
Benzene	ug/L	ND	5.0	03/21/13 14:11	
Bromobenzene	ug/L	ND	5.0	03/21/13 14:11	
Bromochloromethane	ug/L	ND	5.0	03/21/13 14:11	
Bromodichloromethane	ug/L	ND	5.0	03/21/13 14:11	
Bromoform	ug/L	ND	5.0	03/21/13 14:11	
Bromomethane	ug/L	ND	5.0	03/21/13 14:11	
Carbon disulfide	ug/L	ND	10.0	03/21/13 14:11	
Carbon tetrachloride	ug/L	ND	5.0	03/21/13 14:11	
Chlorobenzene	ug/L	ND	5.0	03/21/13 14:11	
Chloroethane	ug/L	ND	5.0	03/21/13 14:11	
Chloroform	ug/L	ND	5.0	03/21/13 14:11	
Chloromethane	ug/L	ND	5.0	03/21/13 14:11	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/21/13 14:11	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/21/13 14:11	
Dibromochloromethane	ug/L	ND	5.0	03/21/13 14:11	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

METHOD BLANK: 886624 Matrix: Water

Associated Lab Samples: 5077253009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	03/21/13 14:11	
Dichlorodifluoromethane	ug/L	ND	5.0	03/21/13 14:11	
Ethyl methacrylate	ug/L	ND	100	03/21/13 14:11	
Ethylbenzene	ug/L	ND	5.0	03/21/13 14:11	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/21/13 14:11	
Iodomethane	ug/L	ND	10.0	03/21/13 14:11	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/21/13 14:11	
Methyl-tert-butyl ether	ug/L	ND	4.0	03/21/13 14:11	
Methylene Chloride	ug/L	ND	5.0	03/21/13 14:11	
n-Butylbenzene	ug/L	ND	5.0	03/21/13 14:11	
n-Hexane	ug/L	ND	5.0	03/21/13 14:11	N2
n-Propylbenzene	ug/L	ND	5.0	03/21/13 14:11	
Naphthalene	ug/L	ND	5.0	03/21/13 14:11	
p-Isopropyltoluene	ug/L	ND	5.0	03/21/13 14:11	
sec-Butylbenzene	ug/L	ND	5.0	03/21/13 14:11	
Styrene	ug/L	ND	5.0	03/21/13 14:11	
tert-Butylbenzene	ug/L	ND	5.0	03/21/13 14:11	
Tetrachloroethene	ug/L	ND	5.0	03/21/13 14:11	
Toluene	ug/L	ND	5.0	03/21/13 14:11	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/21/13 14:11	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/21/13 14:11	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/21/13 14:11	
Trichloroethene	ug/L	ND	5.0	03/21/13 14:11	
Trichlorofluoromethane	ug/L	ND	5.0	03/21/13 14:11	
Vinyl acetate	ug/L	ND	50.0	03/21/13 14:11	
Vinyl chloride	ug/L	ND	2.0	03/21/13 14:11	
Xylene (Total)	ug/L	ND	10.0	03/21/13 14:11	
4-Bromofluorobenzene (S)	%.	97	72-125	03/21/13 14:11	
Dibromofluoromethane (S)	%.	98	83-123	03/21/13 14:11	
Toluene-d8 (S)	%.	104	81-114	03/21/13 14:11	

LABORATORY CONTROL SAMPLE: 886625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	69-122	
1,1,1-Trichloroethane	ug/L	50	51.4	103	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	100	68-134	
1,1,2-Trichloroethane	ug/L	50	53.5	107	77-129	
1,1-Dichloroethane	ug/L	50	51.5	103	70-127	
1,1-Dichloroethene	ug/L	50	52.2	104	75-145	
1,1-Dichloropropene	ug/L	50	53.3	107	75-126	
1,2,3-Trichlorobenzene	ug/L	50	52.0	104	63-130	
1,2,3-Trichloropropane	ug/L	50	48.4	97	45-121	
1,2,4-Trichlorobenzene	ug/L	50	54.8	110	64-122	
1,2,4-Trimethylbenzene	ug/L	50	54.0	108	68-129	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

LABORATORY CONTROL SAMPLE: 886625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	77-123	
1,2-Dichlorobenzene	ug/L	50	50.8	102	74-123	
1,2-Dichloroethane	ug/L	50	53.0	106	71-127	
1,2-Dichloropropane	ug/L	50	51.2	102	75-126	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	69-129	
1,3-Dichlorobenzene	ug/L	50	50.5	101	76-123	
1,3-Dichloropropane	ug/L	50	48.8	98	77-126	
1,4-Dichlorobenzene	ug/L	50	51.8	104	77-121	
2,2-Dichloropropane	ug/L	50	51.1	102	45-138	
2-Butanone (MEK)	ug/L	250	241	96	42-177	
2-Chlorotoluene	ug/L	50	53.1	106	74-129	
2-Hexanone	ug/L	250	252	101	57-162	
4-Chlorotoluene	ug/L	50	53.1	106	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	261	104	64-135	
Acetone	ug/L	250	266	107	10-200	
Acrolein	ug/L	1000	1420	142	10-200	
Acrylonitrile	ug/L	1000	967	97	59-144	
Benzene	ug/L	50	49.8	100	76-123	
Bromobenzene	ug/L	50	51.7	103	67-130	
Bromochloromethane	ug/L	50	55.0	110	58-153	
Bromodichloromethane	ug/L	50	52.7	105	71-124	
Bromoform	ug/L	50	37.7	75	64-116	
Bromomethane	ug/L	50	55.5	111	23-197	
Carbon disulfide	ug/L	100	99.1	99	55-146	
Carbon tetrachloride	ug/L	50	47.2	94	65-125	
Chlorobenzene	ug/L	50	50.6	101	78-120	
Chloroethane	ug/L	50	60.4	121	56-163	
Chloroform	ug/L	50	53.3	107	73-122	
Chloromethane	ug/L	50	43.8	88	46-146	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	79-129	
cis-1,3-Dichloropropene	ug/L	50	51.1	102	66-123	
Dibromochloromethane	ug/L	50	42.8	86	70-123	
Dibromomethane	ug/L	50	50.3	101	73-123	
Dichlorodifluoromethane	ug/L	50	63.2	126	19-200	
Ethyl methacrylate	ug/L	200	217	109	70-127	
Ethylbenzene	ug/L	50	51.6	103	75-120	
Hexachloro-1,3-butadiene	ug/L	50	52.7	105	64-131	
Iodomethane	ug/L	100	76.2	76	16-181	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	73-123	
Methyl-tert-butyl ether	ug/L	100	99.0	99	66-128	
Methylene Chloride	ug/L	50	49.5	99	61-138	
n-Butylbenzene	ug/L	50	55.5	111	69-130	
n-Hexane	ug/L	50	47.2	94	67-142	N2
n-Propylbenzene	ug/L	50	54.2	108	71-132	
Naphthalene	ug/L	50	49.7	99	62-130	
p-Isopropyltoluene	ug/L	50	54.7	109	71-126	
sec-Butylbenzene	ug/L	50	56.5	113	69-130	
Styrene	ug/L	50	52.4	105	75-125	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

LABORATORY CONTROL SAMPLE: 886625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	45.0	90	49-114	
Tetrachloroethene	ug/L	50	49.9	100	57-125	
Toluene	ug/L	50	50.4	101	72-124	
trans-1,2-Dichloroethene	ug/L	50	48.7	97	71-145	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	194	97	50-121	
Trichloroethene	ug/L	50	55.1	110	77-122	
Trichlorofluoromethane	ug/L	50	56.4	113	56-159	
Vinyl acetate	ug/L	200	120	60	27-119	
Vinyl chloride	ug/L	50	55.5	111	61-146	
Xylene (Total)	ug/L	150	153	102	72-126	
4-Bromofluorobenzene (S)	%.			97	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			101	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

QC Batch: MSV/51358 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5077253001, 5077253002, 5077253003, 5077253004, 5077253005, 5077253006, 5077253008

METHOD BLANK: 886622 Matrix: Solid
Associated Lab Samples: 5077253001, 5077253002, 5077253003, 5077253004, 5077253005, 5077253006, 5077253008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1,1-Trichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1,2-Trichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1-Dichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1-Dichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
1,1-Dichloropropene	ug/kg	ND	5.0	03/19/13 01:46	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2,3-Trichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,3-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,3-Dichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
1,4-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
2,2-Dichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
2-Butanone (MEK)	ug/kg	ND	25.0	03/19/13 01:46	
2-Chlorotoluene	ug/kg	ND	5.0	03/19/13 01:46	
2-Hexanone	ug/kg	ND	100	03/19/13 01:46	
4-Chlorotoluene	ug/kg	ND	5.0	03/19/13 01:46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	03/19/13 01:46	
Acetone	ug/kg	ND	100	03/19/13 01:46	
Acrolein	ug/kg	ND	100	03/19/13 01:46	
Acrylonitrile	ug/kg	ND	100	03/19/13 01:46	
Benzene	ug/kg	ND	5.0	03/19/13 01:46	
Bromobenzene	ug/kg	ND	5.0	03/19/13 01:46	
Bromochloromethane	ug/kg	ND	5.0	03/19/13 01:46	
Bromodichloromethane	ug/kg	ND	5.0	03/19/13 01:46	
Bromoform	ug/kg	ND	5.0	03/19/13 01:46	
Bromomethane	ug/kg	ND	5.0	03/19/13 01:46	
Carbon disulfide	ug/kg	ND	10.0	03/19/13 01:46	
Carbon tetrachloride	ug/kg	ND	5.0	03/19/13 01:46	
Chlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
Chloroethane	ug/kg	ND	5.0	03/19/13 01:46	
Chloroform	ug/kg	ND	5.0	03/19/13 01:46	
Chloromethane	ug/kg	ND	5.0	03/19/13 01:46	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	03/19/13 01:46	
Dibromochloromethane	ug/kg	ND	5.0	03/19/13 01:46	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

METHOD BLANK: 886622 Matrix: Solid

Associated Lab Samples: 5077253001, 5077253002, 5077253003, 5077253004, 5077253005, 5077253006, 5077253008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	03/19/13 01:46	
Dichlorodifluoromethane	ug/kg	ND	5.0	03/19/13 01:46	
Ethyl methacrylate	ug/kg	ND	100	03/19/13 01:46	
Ethylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	03/19/13 01:46	
Iodomethane	ug/kg	ND	100	03/19/13 01:46	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/19/13 01:46	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/19/13 01:46	
Methylene Chloride	ug/kg	ND	20.0	03/19/13 01:46	
n-Butylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
n-Hexane	ug/kg	ND	5.0	03/19/13 01:46	N2
n-Propylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Naphthalene	ug/kg	ND	5.0	03/19/13 01:46	
p-Isopropyltoluene	ug/kg	ND	5.0	03/19/13 01:46	
sec-Butylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Styrene	ug/kg	ND	5.0	03/19/13 01:46	
tert-Butylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Tetrachloroethene	ug/kg	ND	5.0	03/19/13 01:46	
Toluene	ug/kg	ND	5.0	03/19/13 01:46	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	03/19/13 01:46	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	03/19/13 01:46	
Trichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
Trichlorofluoromethane	ug/kg	ND	5.0	03/19/13 01:46	
Vinyl acetate	ug/kg	ND	100	03/19/13 01:46	
Vinyl chloride	ug/kg	ND	5.0	03/19/13 01:46	
Xylene (Total)	ug/kg	ND	10.0	03/19/13 01:46	
4-Bromofluorobenzene (S)	%.	97	67-134	03/19/13 01:46	
Dibromofluoromethane (S)	%.	109	71-125	03/19/13 01:46	
Toluene-d8 (S)	%.	108	76-124	03/19/13 01:46	

LABORATORY CONTROL SAMPLE: 886623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	52.6	105	68-125	
1,1,1-Trichloroethane	ug/kg	50	53.7	107	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.0	100	73-123	
1,1,2-Trichloroethane	ug/kg	50	54.2	108	70-124	
1,1-Dichloroethane	ug/kg	50	52.1	104	63-122	
1,1-Dichloroethene	ug/kg	50	52.3	105	71-129	
1,1-Dichloropropene	ug/kg	50	52.2	104	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	46.2	92	68-123	
1,2,3-Trichloropropane	ug/kg	50	48.8	98	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	46.7	93	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	50.2	100	69-120	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

LABORATORY CONTROL SAMPLE: 886623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	50.4	101	67-121	
1,2-Dichlorobenzene	ug/kg	50	48.0	96	71-121	
1,2-Dichloroethane	ug/kg	50	54.9	110	74-120	
1,2-Dichloropropane	ug/kg	50	52.9	106	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	49.5	99	64-119	
1,3-Dichlorobenzene	ug/kg	50	46.6	93	70-122	
1,3-Dichloropropane	ug/kg	50	49.3	99	68-118	
1,4-Dichlorobenzene	ug/kg	50	48.2	96	71-118	
2,2-Dichloropropane	ug/kg	50	50.8	102	62-119	
2-Butanone (MEK)	ug/kg	250	236	94	38-154	
2-Chlorotoluene	ug/kg	50	50.4	101	71-120	
2-Hexanone	ug/kg	250	248	99	50-134	
4-Chlorotoluene	ug/kg	50	49.1	98	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	256	102	66-122	
Acetone	ug/kg	250	261	104	10-200	
Acrolein	ug/kg	1000	1280	128	11-200	
Acrylonitrile	ug/kg	1000	945	94	66-120	
Benzene	ug/kg	50	50.5	101	73-115	
Bromobenzene	ug/kg	50	50.9	102	64-130	
Bromochloromethane	ug/kg	50	56.5	113	71-127	
Bromodichloromethane	ug/kg	50	56.5	113	60-121	
Bromoform	ug/kg	50	38.8	78	44-130	
Bromomethane	ug/kg	50	54.1	108	48-175	
Carbon disulfide	ug/kg	100	101	101	71-126	
Carbon tetrachloride	ug/kg	50	49.7	99	57-127	
Chlorobenzene	ug/kg	50	49.7	99	72-121	
Chloroethane	ug/kg	50	59.7	119	72-141	
Chloroform	ug/kg	50	55.7	111	74-114	
Chloromethane	ug/kg	50	45.8	92	51-126	
cis-1,2-Dichloroethene	ug/kg	50	49.2	98	72-115	
cis-1,3-Dichloropropene	ug/kg	50	52.0	104	64-115	
Dibromochloromethane	ug/kg	50	47.3	95	58-114	
Dibromomethane	ug/kg	50	53.3	107	73-120	
Dichlorodifluoromethane	ug/kg	50	69.7	139	32-167	
Ethyl methacrylate	ug/kg	200	216	108	65-117	
Ethylbenzene	ug/kg	50	50.0	100	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	43.2	86	65-121	
Iodomethane	ug/kg	100	77.2J	77	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	49.4	99	74-123	
Methyl-tert-butyl ether	ug/kg	100	99.1	99	69-123	
Methylene Chloride	ug/kg	50	48.8	98	58-124	
n-Butylbenzene	ug/kg	50	48.6	97	71-118	
n-Hexane	ug/kg	50	45.6	91	50-106	N2
n-Propylbenzene	ug/kg	50	50.6	101	70-120	
Naphthalene	ug/kg	50	43.3	87	67-124	
p-Isopropyltoluene	ug/kg	50	50.0	100	71-123	
sec-Butylbenzene	ug/kg	50	52.1	104	66-122	
Styrene	ug/kg	50	51.2	102	75-118	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

LABORATORY CONTROL SAMPLE: 886623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	42.3	85	54-124	
Tetrachloroethene	ug/kg	50	49.3	99	66-126	
Toluene	ug/kg	50	50.5	101	69-115	
trans-1,2-Dichloroethene	ug/kg	50	50.0	100	69-120	
trans-1,3-Dichloropropene	ug/kg	50	51.1	102	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	186	93	59-130	
Trichloroethene	ug/kg	50	55.7	111	71-117	
Trichlorofluoromethane	ug/kg	50	60.6	121	67-138	
Vinyl acetate	ug/kg	200	116	58	35-134	
Vinyl chloride	ug/kg	50	55.9	112	64-127	
Xylene (Total)	ug/kg	150	149	99	69-117	
4-Bromofluorobenzene (S)	%.			97	67-134	
Dibromofluoromethane (S)	%.			106	71-125	
Toluene-d8 (S)	%.			103	76-124	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

QC Batch: MSV/51386 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5077253007

METHOD BLANK: 887171 | Matrix: Solid
Associated Lab Samples: 5077253007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	03/19/13 16:15	
1,1,1-Trichloroethane	ug/kg	ND	5.0	03/19/13 16:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	03/19/13 16:15	
1,1,2-Trichloroethane	ug/kg	ND	5.0	03/19/13 16:15	
1,1-Dichloroethane	ug/kg	ND	5.0	03/19/13 16:15	
1,1-Dichloroethene	ug/kg	ND	5.0	03/19/13 16:15	
1,1-Dichloropropene	ug/kg	ND	5.0	03/19/13 16:15	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	03/19/13 16:15	
1,2,3-Trichloropropane	ug/kg	ND	5.0	03/19/13 16:15	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	03/19/13 16:15	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/19/13 16:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	03/19/13 16:15	
1,2-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 16:15	
1,2-Dichloroethane	ug/kg	ND	5.0	03/19/13 16:15	
1,2-Dichloropropane	ug/kg	ND	5.0	03/19/13 16:15	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/19/13 16:15	
1,3-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 16:15	
1,3-Dichloropropane	ug/kg	ND	5.0	03/19/13 16:15	
1,4-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 16:15	
2,2-Dichloropropane	ug/kg	ND	5.0	03/19/13 16:15	
2-Butanone (MEK)	ug/kg	ND	25.0	03/19/13 16:15	
2-Chlorotoluene	ug/kg	ND	5.0	03/19/13 16:15	
2-Hexanone	ug/kg	ND	100	03/19/13 16:15	
4-Chlorotoluene	ug/kg	ND	5.0	03/19/13 16:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	03/19/13 16:15	
Acetone	ug/kg	ND	100	03/19/13 16:15	
Acrolein	ug/kg	ND	100	03/19/13 16:15	
Acrylonitrile	ug/kg	ND	100	03/19/13 16:15	
Benzene	ug/kg	ND	5.0	03/19/13 16:15	
Bromobenzene	ug/kg	ND	5.0	03/19/13 16:15	
Bromochloromethane	ug/kg	ND	5.0	03/19/13 16:15	
Bromodichloromethane	ug/kg	ND	5.0	03/19/13 16:15	
Bromoform	ug/kg	ND	5.0	03/19/13 16:15	
Bromomethane	ug/kg	ND	5.0	03/19/13 16:15	
Carbon disulfide	ug/kg	ND	10.0	03/19/13 16:15	
Carbon tetrachloride	ug/kg	ND	5.0	03/19/13 16:15	
Chlorobenzene	ug/kg	ND	5.0	03/19/13 16:15	
Chloroethane	ug/kg	ND	5.0	03/19/13 16:15	
Chloroform	ug/kg	ND	5.0	03/19/13 16:15	
Chloromethane	ug/kg	ND	5.0	03/19/13 16:15	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	03/19/13 16:15	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	03/19/13 16:15	
Dibromochloromethane	ug/kg	ND	5.0	03/19/13 16:15	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

METHOD BLANK: 887171 Matrix: Solid

Associated Lab Samples: 5077253007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	03/19/13 16:15	
Dichlorodifluoromethane	ug/kg	ND	5.0	03/19/13 16:15	
Ethyl methacrylate	ug/kg	ND	100	03/19/13 16:15	
Ethylbenzene	ug/kg	ND	5.0	03/19/13 16:15	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	03/19/13 16:15	
Iodomethane	ug/kg	ND	100	03/19/13 16:15	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/19/13 16:15	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/19/13 16:15	
Methylene Chloride	ug/kg	ND	20.0	03/19/13 16:15	
n-Butylbenzene	ug/kg	ND	5.0	03/19/13 16:15	
n-Hexane	ug/kg	ND	5.0	03/19/13 16:15	N2
n-Propylbenzene	ug/kg	ND	5.0	03/19/13 16:15	
Naphthalene	ug/kg	ND	5.0	03/19/13 16:15	
p-Isopropyltoluene	ug/kg	ND	5.0	03/19/13 16:15	
sec-Butylbenzene	ug/kg	ND	5.0	03/19/13 16:15	
Styrene	ug/kg	ND	5.0	03/19/13 16:15	
tert-Butylbenzene	ug/kg	ND	5.0	03/19/13 16:15	
Tetrachloroethene	ug/kg	ND	5.0	03/19/13 16:15	
Toluene	ug/kg	ND	5.0	03/19/13 16:15	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	03/19/13 16:15	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	03/19/13 16:15	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	03/19/13 16:15	
Trichloroethene	ug/kg	ND	5.0	03/19/13 16:15	
Trichlorofluoromethane	ug/kg	ND	5.0	03/19/13 16:15	
Vinyl acetate	ug/kg	ND	100	03/19/13 16:15	
Vinyl chloride	ug/kg	ND	5.0	03/19/13 16:15	
Xylene (Total)	ug/kg	ND	10.0	03/19/13 16:15	
4-Bromofluorobenzene (S)	%.	93	67-134	03/19/13 16:15	
Dibromofluoromethane (S)	%.	104	71-125	03/19/13 16:15	
Toluene-d8 (S)	%.	108	76-124	03/19/13 16:15	

LABORATORY CONTROL SAMPLE: 887172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	52.1	104	68-125	
1,1,1-Trichloroethane	ug/kg	50	52.9	106	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.1	102	73-123	
1,1,2-Trichloroethane	ug/kg	50	54.7	109	70-124	
1,1-Dichloroethane	ug/kg	50	51.5	103	63-122	
1,1-Dichloroethene	ug/kg	50	52.8	106	71-129	
1,1-Dichloropropene	ug/kg	50	52.3	105	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	52.3	105	68-123	
1,2,3-Trichloropropane	ug/kg	50	50.7	101	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	53.0	106	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	53.8	108	69-120	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

LABORATORY CONTROL SAMPLE: 887172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	51.8	104	67-121	
1,2-Dichlorobenzene	ug/kg	50	49.4	99	71-121	
1,2-Dichloroethane	ug/kg	50	54.5	109	74-120	
1,2-Dichloropropane	ug/kg	50	49.5	99	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	53.8	108	64-119	
1,3-Dichlorobenzene	ug/kg	50	49.8	100	70-122	
1,3-Dichloropropane	ug/kg	50	50.1	100	68-118	
1,4-Dichlorobenzene	ug/kg	50	51.6	103	71-118	
2,2-Dichloropropane	ug/kg	50	50.2	100	62-119	
2-Butanone (MEK)	ug/kg	250	244	98	38-154	
2-Chlorotoluene	ug/kg	50	53.8	108	71-120	
2-Hexanone	ug/kg	250	253	101	50-134	
4-Chlorotoluene	ug/kg	50	51.4	103	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	259	104	66-122	
Acetone	ug/kg	250	280	112	10-200	
Acrolein	ug/kg	1000	1320	132	11-200	
Acrylonitrile	ug/kg	1000	1000	100	66-120	
Benzene	ug/kg	50	50.0	100	73-115	
Bromobenzene	ug/kg	50	51.4	103	64-130	
Bromochloromethane	ug/kg	50	66.9	134	71-127	L3
Bromodichloromethane	ug/kg	50	49.3	99	60-121	
Bromoform	ug/kg	50	39.7	79	44-130	
Bromomethane	ug/kg	50	54.5	109	48-175	
Carbon disulfide	ug/kg	100	103	103	71-126	
Carbon tetrachloride	ug/kg	50	53.2	106	57-127	
Chlorobenzene	ug/kg	50	50.3	101	72-121	
Chloroethane	ug/kg	50	55.3	111	72-141	
Chloroform	ug/kg	50	53.1	106	74-114	
Chloromethane	ug/kg	50	49.3	99	51-126	
cis-1,2-Dichloroethene	ug/kg	50	49.3	99	72-115	
cis-1,3-Dichloropropene	ug/kg	50	54.3	109	64-115	
Dibromochloromethane	ug/kg	50	47.6	95	58-114	
Dibromomethane	ug/kg	50	52.5	105	73-120	
Dichlorodifluoromethane	ug/kg	50	66.8	134	32-167	
Ethyl methacrylate	ug/kg	200	195	98	65-117	
Ethylbenzene	ug/kg	50	51.5	103	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	51.6	103	65-121	
Iodomethane	ug/kg	100	100	100	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	51.8	104	74-123	
Methyl-tert-butyl ether	ug/kg	100	100	100	69-123	
Methylene Chloride	ug/kg	50	52.2	104	58-124	
n-Butylbenzene	ug/kg	50	53.8	108	71-118	
n-Hexane	ug/kg	50	49.2	98	50-106	N2
n-Propylbenzene	ug/kg	50	54.5	109	70-120	
Naphthalene	ug/kg	50	48.6	97	67-124	
p-Isopropyltoluene	ug/kg	50	53.8	108	71-123	
sec-Butylbenzene	ug/kg	50	56.4	113	66-122	
Styrene	ug/kg	50	51.9	104	75-118	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

LABORATORY CONTROL SAMPLE: 887172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	45.7	91	54-124	
Tetrachloroethene	ug/kg	50	50.8	102	66-126	
Toluene	ug/kg	50	51.3	103	69-115	
trans-1,2-Dichloroethene	ug/kg	50	52.9	106	69-120	
trans-1,3-Dichloropropene	ug/kg	50	53.0	106	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	203	101	59-130	
Trichloroethene	ug/kg	50	54.2	108	71-117	
Trichlorofluoromethane	ug/kg	50	62.1	124	67-138	
Vinyl acetate	ug/kg	200	113	57	35-134	
Vinyl chloride	ug/kg	50	57.7	115	64-127	
Xylene (Total)	ug/kg	150	153	102	69-117	
4-Bromofluorobenzene (S)	%.			98	67-134	
Dibromofluoromethane (S)	%.			102	71-125	
Toluene-d8 (S)	%.			103	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 887173 887174

Parameter	Units	5077412005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	45	43.3	30.3	7.7	67	18	10-111	119	20	
1,1,1-Trichloroethane	ug/kg	ND	45	43.3	34.4	9.3	76	21	36-128	115	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	45	43.3	26.9	9.8	60	23	10-130	93	20	
1,1,2-Trichloroethane	ug/kg	ND	45	43.3	33.8	11.2	75	26	10-126	100	20	
1,1-Dichloroethane	ug/kg	ND	45	43.3	33.8	11.9	75	27	39-126	96	20	
1,1-Dichloroethene	ug/kg	ND	45	43.3	34.6	11.3	77	26	42-147	102	20	
1,1-Dichloropropene	ug/kg	ND	45	43.3	33.0	8.4	73	19	29-129	119	20	
1,2,3-Trichlorobenzene	ug/kg	ND	45	43.3	18.4	3.5J	41	8	10-91		20	
1,2,3-Trichloropropane	ug/kg	ND	45	43.3	27.2	9.1	60	21	10-99	100	20	
1,2,4-Trichlorobenzene	ug/kg	ND	45	43.3	19.3	3.4J	43	8	10-88		20	
1,2,4-Trimethylbenzene	ug/kg	ND	45	43.3	29.1	4.6	65	11	10-109	146	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	45	43.3	30.1	11.4	67	26	10-119	90	20	
1,2-Dichlorobenzene	ug/kg	ND	45	43.3	24.0	5.0	53	12	10-104	131	20	
1,2-Dichloroethane	ug/kg	ND	45	43.3	35.3	15.1	78	35	19-126	80	20	
1,2-Dichloropropane	ug/kg	ND	45	43.3	31.3	11.2	69	26	24-123	95	20	
1,3,5-Trimethylbenzene	ug/kg	ND	45	43.3	29.8	4.4	66	10	10-118	148	20	
1,3-Dichlorobenzene	ug/kg	ND	45	43.3	24.4	4.6	54	11	10-108	136	20	
1,3-Dichloropropane	ug/kg	ND	45	43.3	29.8	11.8	66	27	12-121	87	20	
1,4-Dichlorobenzene	ug/kg	ND	45	43.3	25.1	5.1	56	12	10-104	133	20	
2,2-Dichloropropane	ug/kg	ND	45	43.3	33.5	9.2	74	21	32-124	114	20	
2-Butanone (MEK)	ug/kg	ND	226	216	179	79.5	79	37	10-183	77	20	
2-Chlorotoluene	ug/kg	ND	45	43.3	28.5	5.3	63	12	10-128	137	20	
2-Hexanone	ug/kg	ND	226	216	156	62.8J	69	29	10-158		20	
4-Chlorotoluene	ug/kg	ND	45	43.3	27.0	5.1	60	12	10-119	137	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	226	216	149	59.7	66	28	12-130	86	20	
Acetone	ug/kg	ND	226	216	282	133	125	62	10-200	72	20	
Acrolein	ug/kg	ND	902	865	731	392	81	45	10-200	60	20	
Acrylonitrile	ug/kg	ND	902	865	580	334	64	39	19-130	54	20	

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(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 887173 887174

Parameter	Units	5077412005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	45	43.3	32.9	10.7	73	25	23-138	102	20	
Bromobenzene	ug/kg	ND	45	43.3	27.0	6.5	60	15	10-111	122	20	
Bromochloromethane	ug/kg	ND	45	43.3	41.1	15.2	91	35	26-126	92	20	
Bromodichloromethane	ug/kg	ND	45	43.3	28.8	10.0	64	23	10-120	97	20	
Bromoform	ug/kg	ND	45	43.3	22.3	ND	50	0	10-106		20	
Bromomethane	ug/kg	ND	45	43.3	41.7	15.5	93	36	10-190	92	20	
Carbon disulfide	ug/kg	ND	90.2	86.5	67.3	22.8	75	26	31-128	99	20	
Carbon tetrachloride	ug/kg	ND	45	43.3	31.7	7.5	70	17	26-126	124	20	
Chlorobenzene	ug/kg	ND	45	43.3	29.5	8.0	65	19	10-120	115	20	
Chloroethane	ug/kg	ND	45	43.3	37.7	13.0	84	30	18-186	97	20	
Chloroform	ug/kg	ND	45	43.3	35.2	12.4	78	29	29-126	96	20	
Chloromethane	ug/kg	ND	45	43.3	36.4	14.6	81	34	34-131	86	20	
cis-1,2-Dichloroethene	ug/kg	ND	45	43.3	32.4	11.4	72	26	28-132	96	20	
cis-1,3-Dichloropropene	ug/kg	ND	45	43.3	30.8	10	68	23	10-108	102	20	
Dibromochloromethane	ug/kg	ND	45	43.3	26.2	9.7	58	22	10-108	92	20	
Dibromomethane	ug/kg	ND	45	43.3	32.7	13.5	73	31	13-122	83	20	
Dichlorodifluoromethane	ug/kg	ND	45	43.3	48.5	12.6	108	29	10-197	117	20	
Ethyl methacrylate	ug/kg	ND	181	173	108	ND	60	21	10-130		20	
Ethylbenzene	ug/kg	ND	45	43.3	31.3	6.7	70	15	10-135	130	20	
Hexachloro-1,3-butadiene	ug/kg	ND	45	43.3	23.9	3J	53	7	10-105		20	
Iodomethane	ug/kg	ND	90.2	86.5	66.8J	ND	74	30	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	45	43.3	30.8	5.1	68	12	10-121	143	20	
Methyl-tert-butyl ether	ug/kg	ND	90.2	86.5	57.6	25.4	64	29	20-140	78	20	
Methylene Chloride	ug/kg	ND	45	43.3	32.9	12.4J	73	29	28-131		20	
n-Butylbenzene	ug/kg	ND	45	43.3	27.5	2.9J	61	7	10-110		20	
n-Hexane	ug/kg	ND	45	43.3	27.5	4.1J	61	9	21-150		20	N2
n-Propylbenzene	ug/kg	ND	45	43.3	30.9	4.7	68	11	10-123	147	20	
Naphthalene	ug/kg	ND	45	43.3	16.8	4J	37	9	10-106		20	
p-Isopropyltoluene	ug/kg	ND	45	43.3	29.7	3.6J	66	8	10-117		20	
sec-Butylbenzene	ug/kg	ND	45	43.3	31.4	3.7J	70	8	10-123		20	
Styrene	ug/kg	ND	45	43.3	29.1	6.7	65	15	10-119	125	20	
tert-Butylbenzene	ug/kg	ND	45	43.3	25.7	3.4J	57	8	10-105		20	
Tetrachloroethene	ug/kg	ND	45	43.3	31.3	6.9	69	16	10-122	128	20	
Toluene	ug/kg	ND	45	43.3	33.3	9.1	74	21	10-131	114	20	
trans-1,2-Dichloroethene	ug/kg	ND	45	43.3	34.7	12.3	77	28	32-136	95	20	
trans-1,3-Dichloropropene	ug/kg	ND	45	43.3	28.7	9.1	64	21	10-101	104	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	181	173	109	ND	60	22	10-104		20	
Trichloroethene	ug/kg	2.1J	45	43.3	35.8	12.9	75	25	15-133	94	20	
Trichlorofluoromethane	ug/kg	ND	45	43.3	42.9	12.1	95	28	37-152	112	20	
Vinyl acetate	ug/kg	ND	181	173	51.1J	ND	28	11	10-103		20	
Vinyl chloride	ug/kg	ND	45	43.3	40.9	14.9	91	34	41-147	93	20	
Xylene (Total)	ug/kg	ND	135	129	90.6	19.2	67	15	10-131	130	20	
4-Bromofluorobenzene (S)	%.						95	93	67-134		20	
Dibromofluoromethane (S)	%.						102	111	71-125		20	1d
Toluene-d8 (S)	%.						107	106	76-124		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

QC Batch: PMST/8047
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 5077253001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 883641

Parameter	Units	5077359006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.0	6.3	45	5	R1

SAMPLE DUPLICATE: 883642

Parameter	Units	5077234002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.1	7.9	2	5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077253

QC Batch: PMST/8048 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5077253002, 5077253003, 5077253004, 5077253005, 5077253006, 5077253007, 5077253008

SAMPLE DUPLICATE: 883645

Parameter	Units	5077254001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	32.9	31.4	5	5	

SAMPLE DUPLICATE: 883646

Parameter	Units	5077273006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.9	20.7	1	5	

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077253

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Several compounds are outside of acceptance limits for RPD value and/or percent recovery. Refer to the LCS for system control. grm 3-20-13
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077253009	Trip Blank	EPA 8260	MSV/51359		
5077253001	SB-103 (4-6)	EPA 8260	MSV/51358		
5077253002	MMW-P-04-A (16-18)	EPA 8260	MSV/51358		
5077253003	MMW-P-07-A (20-22)	EPA 8260	MSV/51358		
5077253004	MMW-P-10D-A (22-24)	EPA 8260	MSV/51358		
5077253005	SB-103 (16-18)	EPA 8260	MSV/51358		
5077253006	SB-103 (34-36)	EPA 8260	MSV/51358		
5077253007	MMW-P-10D-A (32-34)	EPA 8260	MSV/51386		
5077253008	MMW-P-10D-A (36-38)	EPA 8260	MSV/51358		
5077253001	SB-103 (4-6)	ASTM D2974-87	PMST/8047		
5077253002	MMW-P-04-A (16-18)	ASTM D2974-87	PMST/8048		
5077253003	MMW-P-07-A (20-22)	ASTM D2974-87	PMST/8048		
5077253004	MMW-P-10D-A (22-24)	ASTM D2974-87	PMST/8048		
5077253005	SB-103 (16-18)	ASTM D2974-87	PMST/8048		
5077253006	SB-103 (34-36)	ASTM D2974-87	PMST/8048		
5077253007	MMW-P-10D-A (32-34)	ASTM D2974-87	PMST/8048		
5077253008	MMW-P-10D-A (36-38)	ASTM D2974-87	PMST/8048		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

✓TMS

Page: 1 of 1

1558188

Section A Required Client Information:

Company: Mundell & Associates Inc.
Address: 110 S. Downey Ave
Indpls. IN 46219
Email To: mbretz@mundellassociates.com
Phone: 317 630 9060 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Mark Bretz
Copy To: John Mundell
Purchase Order No.:
Project Name: Michigan Plaza - Soil Borings
Project Number: M01046

Section C Invoice Information:

Attention: Merle Tebbe
Company Name: See Sec. A
Address:
Pace Quote Reference:
Pace Project Manager: Tina Sayer
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☒ OTHER VRP

Site Location STATE: IN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: VOCs (8260)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-103 (4-6)	SL	G			3/8/13	1:30		4	1						2		X		001
2	MMW-P-04-A (16-18)						9:25													002
3	MMW-P-07-A (20-22)						10:10													003
4	MMW-P-10D-A (22-24)						11:30													004
5	SB-103 (16-18)						1:40													005
6	SB-103 (34-36)						2:00													006
7	MMW-P-10D-A (32-34)						11:40													007
8	MMW-P-10D-A (36-38)						11:50													008
9	Trip Blank	WT					8:30		3	3										009
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Gabriel Hebert / Mundell	3/8/13	3:30	Mark Bretz	3/8/13	1530				
	Mark Bretz / Mundell	3/8/13	1637	[illegible]	3/8/13	1637	1.4	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Gabriel Hebert
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/8/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 5077253

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer: 3/8/13 KG 1645

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Ice/plastic Holder

Thermometer Used 1 2 3 4 6 A B C D E 3/8/13 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 1.4°C (Corrected, if applicable) Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and initials of person examining contents: 3/8/13 KG

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	5. TC Kit
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	6.
Containers Intact:	☒Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation	☐Yes	☐No	☒N/A	
Headspace in VOA Vials (>6mm)	☒Yes	☐No	☐N/A	10. 1 TB >6mm "X" placed on cap
Trip Blank Present:	☒Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☐Yes	☒No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	12.
Sufficient Volume:	☒Yes	☐No	☐N/A	13.
Correct Containers Used:	☒Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [signature] Date: 3/8/13

Form F-IN-Q290-rev.04, 28Apr2011

CLIENT: Mundell

COC PAGE 1 of 1
COC ID# 1558188

Sample Container Count

Pace Analytical

Project # 5077253

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H		Comments
1					4											
2																
3																
4																
5																
6																
7																
8																
9															3	
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

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March 20, 2013

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5077377

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5077377

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: CL0065
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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(317)875-5894

SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5077377

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5077377001	MMW-13D-A (56-58')	Solid	03/11/13 11:05	03/12/13 14:45
5077377002	MMW-13D-A (58-60')	Solid	03/11/13 11:10	03/12/13 14:45
5077377003	Dup-2	Solid	03/11/13 00:00	03/12/13 14:45
5077377004	Trip Blank	Water	03/11/13 08:00	03/12/13 14:45

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5077377

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5077377001	MMW-13D-A (56-58')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077377002	MMW-13D-A (58-60')	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077377003	Dup-2	EPA 8260	GRM	73
		ASTM D2974-87	SLB	1
5077377004	Trip Blank	EPA 8260	AMV	73

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: MMW-13D-A (56-58') **Lab ID: 5077377001** **Collected: 03/11/13 11:05** **Received: 03/12/13 14:45** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	99.2	1		03/19/13 06:59	67-64-1	
Acrolein	ND	ug/kg	99.2	1		03/19/13 06:59	107-02-8	
Acrylonitrile	ND	ug/kg	99.2	1		03/19/13 06:59	107-13-1	
Benzene	ND	ug/kg	5.0	1		03/19/13 06:59	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		03/19/13 06:59	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		03/19/13 06:59	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		03/19/13 06:59	75-27-4	
Bromoform	ND	ug/kg	5.0	1		03/19/13 06:59	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		03/19/13 06:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.8	1		03/19/13 06:59	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		03/19/13 06:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		03/19/13 06:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		03/19/13 06:59	98-06-6	
Carbon disulfide	ND	ug/kg	9.9	1		03/19/13 06:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		03/19/13 06:59	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		03/19/13 06:59	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		03/19/13 06:59	75-00-3	
Chloroform	ND	ug/kg	5.0	1		03/19/13 06:59	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		03/19/13 06:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		03/19/13 06:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		03/19/13 06:59	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		03/19/13 06:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		03/19/13 06:59	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		03/19/13 06:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		03/19/13 06:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		03/19/13 06:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		03/19/13 06:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	99.2	1		03/19/13 06:59	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		03/19/13 06:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		03/19/13 06:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		03/19/13 06:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		03/19/13 06:59	75-35-4	
cis-1,2-Dichloroethene	197	ug/kg	5.0	1		03/19/13 06:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		03/19/13 06:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		03/19/13 06:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		03/19/13 06:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		03/19/13 06:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		03/19/13 06:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		03/19/13 06:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		03/19/13 06:59	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		03/19/13 06:59	100-41-4	
Ethyl methacrylate	ND	ug/kg	99.2	1		03/19/13 06:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		03/19/13 06:59	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		03/19/13 06:59	110-54-3	N2
2-Hexanone	ND	ug/kg	99.2	1		03/19/13 06:59	591-78-6	
Iodomethane	ND	ug/kg	99.2	1		03/19/13 06:59	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: MMW-13D-A (56-58') **Lab ID: 5077377001** **Collected: 03/11/13 11:05** **Received: 03/12/13 14:45** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		03/19/13 06:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		03/19/13 06:59	99-87-6	
Methylene Chloride	ND	ug/kg	19.8	1		03/19/13 06:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.8	1		03/19/13 06:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		03/19/13 06:59	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		03/19/13 06:59	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		03/19/13 06:59	103-65-1	
Styrene	ND	ug/kg	5.0	1		03/19/13 06:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		03/19/13 06:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		03/19/13 06:59	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		03/19/13 06:59	127-18-4	
Toluene	ND	ug/kg	5.0	1		03/19/13 06:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		03/19/13 06:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		03/19/13 06:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		03/19/13 06:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		03/19/13 06:59	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		03/19/13 06:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		03/19/13 06:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		03/19/13 06:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		03/19/13 06:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		03/19/13 06:59	108-67-8	
Vinyl acetate	ND	ug/kg	99.2	1		03/19/13 06:59	108-05-4	
Vinyl chloride	14.7	ug/kg	5.0	1		03/19/13 06:59	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		03/19/13 06:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	71-125	1		03/19/13 06:59	1868-53-7	
Toluene-d8 (S)	107	%.	76-124	1		03/19/13 06:59	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	67-134	1		03/19/13 06:59	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	12.9	%	0.10	1		03/19/13 13:16		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: MMW-13D-A (58-60') **Lab ID: 5077377002** **Collected: 03/11/13 11:10** **Received: 03/12/13 14:45** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	73.0	1		03/19/13 07:34	67-64-1	
Acrolein	ND	ug/kg	73.0	1		03/19/13 07:34	107-02-8	
Acrylonitrile	ND	ug/kg	73.0	1		03/19/13 07:34	107-13-1	
Benzene	ND	ug/kg	3.7	1		03/19/13 07:34	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		03/19/13 07:34	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		03/19/13 07:34	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		03/19/13 07:34	75-27-4	
Bromoform	ND	ug/kg	3.7	1		03/19/13 07:34	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		03/19/13 07:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.3	1		03/19/13 07:34	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		03/19/13 07:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		03/19/13 07:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		03/19/13 07:34	98-06-6	
Carbon disulfide	ND	ug/kg	7.3	1		03/19/13 07:34	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		03/19/13 07:34	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		03/19/13 07:34	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		03/19/13 07:34	75-00-3	
Chloroform	ND	ug/kg	3.7	1		03/19/13 07:34	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		03/19/13 07:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		03/19/13 07:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		03/19/13 07:34	106-43-4	
Dibromochloromethane	ND	ug/kg	3.7	1		03/19/13 07:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		03/19/13 07:34	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		03/19/13 07:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		03/19/13 07:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		03/19/13 07:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		03/19/13 07:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	73.0	1		03/19/13 07:34	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		03/19/13 07:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		03/19/13 07:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		03/19/13 07:34	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		03/19/13 07:34	75-35-4	
cis-1,2-Dichloroethene	80.6	ug/kg	3.7	1		03/19/13 07:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		03/19/13 07:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		03/19/13 07:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		03/19/13 07:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		03/19/13 07:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		03/19/13 07:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		03/19/13 07:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		03/19/13 07:34	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		03/19/13 07:34	100-41-4	
Ethyl methacrylate	ND	ug/kg	73.0	1		03/19/13 07:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		03/19/13 07:34	87-68-3	
n-Hexane	ND	ug/kg	3.7	1		03/19/13 07:34	110-54-3	N2
2-Hexanone	ND	ug/kg	73.0	1		03/19/13 07:34	591-78-6	
Iodomethane	ND	ug/kg	73.0	1		03/19/13 07:34	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: MMW-13D-A (58-60') **Lab ID: 5077377002** Collected: 03/11/13 11:10 Received: 03/12/13 14:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		03/19/13 07:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		03/19/13 07:34	99-87-6	
Methylene Chloride	ND	ug/kg	14.6	1		03/19/13 07:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.3	1		03/19/13 07:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		03/19/13 07:34	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		03/19/13 07:34	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		03/19/13 07:34	103-65-1	
Styrene	ND	ug/kg	3.7	1		03/19/13 07:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		03/19/13 07:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		03/19/13 07:34	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		03/19/13 07:34	127-18-4	
Toluene	ND	ug/kg	3.7	1		03/19/13 07:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		03/19/13 07:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		03/19/13 07:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		03/19/13 07:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		03/19/13 07:34	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		03/19/13 07:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		03/19/13 07:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		03/19/13 07:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		03/19/13 07:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		03/19/13 07:34	108-67-8	
Vinyl acetate	ND	ug/kg	73.0	1		03/19/13 07:34	108-05-4	
Vinyl chloride	10.3	ug/kg	3.7	1		03/19/13 07:34	75-01-4	
Xylene (Total)	ND	ug/kg	7.3	1		03/19/13 07:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	71-125	1		03/19/13 07:34	1868-53-7	
Toluene-d8 (S)	107	%.	76-124	1		03/19/13 07:34	2037-26-5	
4-Bromofluorobenzene (S)	89	%.	67-134	1		03/19/13 07:34	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	13.0	%	0.10	1		03/19/13 13:17		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: Dup-2 **Lab ID: 5077377003** **Collected: 03/11/13 00:00** **Received: 03/12/13 14:45** **Matrix: Solid**

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	95.3	1		03/19/13 08:09	67-64-1	
Acrolein	ND	ug/kg	95.3	1		03/19/13 08:09	107-02-8	
Acrylonitrile	ND	ug/kg	95.3	1		03/19/13 08:09	107-13-1	
Benzene	ND	ug/kg	4.8	1		03/19/13 08:09	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		03/19/13 08:09	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		03/19/13 08:09	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		03/19/13 08:09	75-27-4	
Bromoform	ND	ug/kg	4.8	1		03/19/13 08:09	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		03/19/13 08:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.8	1		03/19/13 08:09	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		03/19/13 08:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		03/19/13 08:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		03/19/13 08:09	98-06-6	
Carbon disulfide	ND	ug/kg	9.5	1		03/19/13 08:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		03/19/13 08:09	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		03/19/13 08:09	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		03/19/13 08:09	75-00-3	
Chloroform	ND	ug/kg	4.8	1		03/19/13 08:09	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		03/19/13 08:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		03/19/13 08:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		03/19/13 08:09	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		03/19/13 08:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		03/19/13 08:09	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		03/19/13 08:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		03/19/13 08:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		03/19/13 08:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		03/19/13 08:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95.3	1		03/19/13 08:09	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		03/19/13 08:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		03/19/13 08:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		03/19/13 08:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		03/19/13 08:09	75-35-4	
cis-1,2-Dichloroethene	218	ug/kg	4.8	1		03/19/13 08:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		03/19/13 08:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		03/19/13 08:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		03/19/13 08:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		03/19/13 08:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		03/19/13 08:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/19/13 08:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		03/19/13 08:09	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		03/19/13 08:09	100-41-4	
Ethyl methacrylate	ND	ug/kg	95.3	1		03/19/13 08:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		03/19/13 08:09	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		03/19/13 08:09	110-54-3	N2
2-Hexanone	ND	ug/kg	95.3	1		03/19/13 08:09	591-78-6	
Iodomethane	ND	ug/kg	95.3	1		03/19/13 08:09	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: Dup-2 **Lab ID: 5077377003** Collected: 03/11/13 00:00 Received: 03/12/13 14:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		03/19/13 08:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		03/19/13 08:09	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		03/19/13 08:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.8	1		03/19/13 08:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		03/19/13 08:09	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		03/19/13 08:09	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		03/19/13 08:09	103-65-1	
Styrene	ND	ug/kg	4.8	1		03/19/13 08:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/19/13 08:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		03/19/13 08:09	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		03/19/13 08:09	127-18-4	
Toluene	ND	ug/kg	4.8	1		03/19/13 08:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		03/19/13 08:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		03/19/13 08:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		03/19/13 08:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		03/19/13 08:09	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		03/19/13 08:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		03/19/13 08:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		03/19/13 08:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		03/19/13 08:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		03/19/13 08:09	108-67-8	
Vinyl acetate	ND	ug/kg	95.3	1		03/19/13 08:09	108-05-4	
Vinyl chloride	21.5	ug/kg	4.8	1		03/19/13 08:09	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		03/19/13 08:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	71-125	1		03/19/13 08:09	1868-53-7	
Toluene-d8 (S)	109	%.	76-124	1		03/19/13 08:09	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	67-134	1		03/19/13 08:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	11.5	%	0.10	1		03/19/13 13:17		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: Trip Blank Lab ID: 5077377004 Collected: 03/11/13 08:00 Received: 03/12/13 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/19/13 10:24	67-64-1	
Acrolein	ND	ug/L	50.0	1		03/19/13 10:24	107-02-8	
Acrylonitrile	ND	ug/L	100	1		03/19/13 10:24	107-13-1	
Benzene	ND	ug/L	5.0	1		03/19/13 10:24	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		03/19/13 10:24	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		03/19/13 10:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/19/13 10:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/19/13 10:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/19/13 10:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/19/13 10:24	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		03/19/13 10:24	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		03/19/13 10:24	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		03/19/13 10:24	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		03/19/13 10:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/19/13 10:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/19/13 10:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/19/13 10:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/19/13 10:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/19/13 10:24	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		03/19/13 10:24	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		03/19/13 10:24	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		03/19/13 10:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/19/13 10:24	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		03/19/13 10:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/19/13 10:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/19/13 10:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/19/13 10:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		03/19/13 10:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/19/13 10:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/19/13 10:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/19/13 10:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/19/13 10:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 10:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/19/13 10:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/19/13 10:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		03/19/13 10:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		03/19/13 10:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		03/19/13 10:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/19/13 10:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/19/13 10:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/19/13 10:24	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		03/19/13 10:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		03/19/13 10:24	87-68-3	
n-Hexane	ND	ug/L	5.0	1		03/19/13 10:24	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		03/19/13 10:24	591-78-6	
Iodomethane	ND	ug/L	10.0	1		03/19/13 10:24	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/19/13 10:24	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5077377

Sample: Trip Blank Lab ID: 5077377004 Collected: 03/11/13 08:00 Received: 03/12/13 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		03/19/13 10:24	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		03/19/13 10:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/19/13 10:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/19/13 10:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		03/19/13 10:24	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		03/19/13 10:24	103-65-1	
Styrene	ND	ug/L	5.0	1		03/19/13 10:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/19/13 10:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/19/13 10:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/19/13 10:24	127-18-4	
Toluene	ND	ug/L	5.0	1		03/19/13 10:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		03/19/13 10:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/19/13 10:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/19/13 10:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/19/13 10:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/19/13 10:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/19/13 10:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/19/13 10:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		03/19/13 10:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		03/19/13 10:24	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		03/19/13 10:24	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/19/13 10:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/19/13 10:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		03/19/13 10:24	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	72-125	1		03/19/13 10:24	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		03/19/13 10:24	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

QC Batch: MSV/51364 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5077377004

METHOD BLANK: 886638 Matrix: Water
Associated Lab Samples: 5077377004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/19/13 09:46	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/19/13 09:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/19/13 09:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/19/13 09:46	
1,1-Dichloroethane	ug/L	ND	5.0	03/19/13 09:46	
1,1-Dichloroethene	ug/L	ND	5.0	03/19/13 09:46	
1,1-Dichloropropene	ug/L	ND	5.0	03/19/13 09:46	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	03/19/13 09:46	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/19/13 09:46	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/19/13 09:46	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	03/19/13 09:46	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/19/13 09:46	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/19/13 09:46	
1,2-Dichloroethane	ug/L	ND	5.0	03/19/13 09:46	
1,2-Dichloropropane	ug/L	ND	5.0	03/19/13 09:46	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	03/19/13 09:46	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/19/13 09:46	
1,3-Dichloropropane	ug/L	ND	5.0	03/19/13 09:46	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/19/13 09:46	
2,2-Dichloropropane	ug/L	ND	5.0	03/19/13 09:46	
2-Butanone (MEK)	ug/L	ND	25.0	03/19/13 09:46	
2-Chlorotoluene	ug/L	ND	5.0	03/19/13 09:46	
2-Hexanone	ug/L	ND	25.0	03/19/13 09:46	
4-Chlorotoluene	ug/L	ND	5.0	03/19/13 09:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/19/13 09:46	
Acetone	ug/L	ND	100	03/19/13 09:46	
Acrolein	ug/L	ND	50.0	03/19/13 09:46	
Acrylonitrile	ug/L	ND	100	03/19/13 09:46	
Benzene	ug/L	ND	5.0	03/19/13 09:46	
Bromobenzene	ug/L	ND	5.0	03/19/13 09:46	
Bromochloromethane	ug/L	ND	5.0	03/19/13 09:46	
Bromodichloromethane	ug/L	ND	5.0	03/19/13 09:46	
Bromoform	ug/L	ND	5.0	03/19/13 09:46	
Bromomethane	ug/L	ND	5.0	03/19/13 09:46	
Carbon disulfide	ug/L	ND	10.0	03/19/13 09:46	
Carbon tetrachloride	ug/L	ND	5.0	03/19/13 09:46	
Chlorobenzene	ug/L	ND	5.0	03/19/13 09:46	
Chloroethane	ug/L	ND	5.0	03/19/13 09:46	
Chloroform	ug/L	ND	5.0	03/19/13 09:46	
Chloromethane	ug/L	ND	5.0	03/19/13 09:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/19/13 09:46	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/19/13 09:46	
Dibromochloromethane	ug/L	ND	5.0	03/19/13 09:46	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

METHOD BLANK: 886638 Matrix: Water

Associated Lab Samples: 5077377004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	03/19/13 09:46	
Dichlorodifluoromethane	ug/L	ND	5.0	03/19/13 09:46	
Ethyl methacrylate	ug/L	ND	100	03/19/13 09:46	
Ethylbenzene	ug/L	ND	5.0	03/19/13 09:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/19/13 09:46	
Iodomethane	ug/L	ND	10.0	03/19/13 09:46	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/19/13 09:46	
Methyl-tert-butyl ether	ug/L	ND	4.0	03/19/13 09:46	
Methylene Chloride	ug/L	ND	5.0	03/19/13 09:46	
n-Butylbenzene	ug/L	ND	5.0	03/19/13 09:46	
n-Hexane	ug/L	ND	5.0	03/19/13 09:46	N2
n-Propylbenzene	ug/L	ND	5.0	03/19/13 09:46	
Naphthalene	ug/L	ND	5.0	03/19/13 09:46	
p-Isopropyltoluene	ug/L	ND	5.0	03/19/13 09:46	
sec-Butylbenzene	ug/L	ND	5.0	03/19/13 09:46	
Styrene	ug/L	ND	5.0	03/19/13 09:46	
tert-Butylbenzene	ug/L	ND	5.0	03/19/13 09:46	
Tetrachloroethene	ug/L	ND	5.0	03/19/13 09:46	
Toluene	ug/L	ND	5.0	03/19/13 09:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/19/13 09:46	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/19/13 09:46	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/19/13 09:46	
Trichloroethene	ug/L	ND	5.0	03/19/13 09:46	
Trichlorofluoromethane	ug/L	ND	5.0	03/19/13 09:46	
Vinyl acetate	ug/L	ND	50.0	03/19/13 09:46	
Vinyl chloride	ug/L	ND	2.0	03/19/13 09:46	
Xylene (Total)	ug/L	ND	10.0	03/19/13 09:46	
4-Bromofluorobenzene (S)	%.	95	72-125	03/19/13 09:46	
Dibromofluoromethane (S)	%.	101	83-123	03/19/13 09:46	
Toluene-d8 (S)	%.	100	81-114	03/19/13 09:46	

LABORATORY CONTROL SAMPLE: 886639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.0	90	69-122	
1,1,1-Trichloroethane	ug/L	50	48.9	98	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	68-134	
1,1,2-Trichloroethane	ug/L	50	51.7	103	77-129	
1,1-Dichloroethane	ug/L	50	44.6	89	70-127	
1,1-Dichloroethene	ug/L	50	44.9	90	75-145	
1,1-Dichloropropene	ug/L	50	43.6	87	75-126	
1,2,3-Trichlorobenzene	ug/L	50	44.7	89	63-130	
1,2,3-Trichloropropane	ug/L	50	52.8	106	45-121	
1,2,4-Trichlorobenzene	ug/L	50	42.6	85	64-122	
1,2,4-Trimethylbenzene	ug/L	50	40.6	81	68-129	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

LABORATORY CONTROL SAMPLE: 886639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	77-123	
1,2-Dichlorobenzene	ug/L	50	46.0	92	74-123	
1,2-Dichloroethane	ug/L	50	54.3	109	71-127	
1,2-Dichloropropane	ug/L	50	48.5	97	75-126	
1,3,5-Trimethylbenzene	ug/L	50	42.2	84	69-129	
1,3-Dichlorobenzene	ug/L	50	43.7	87	76-123	
1,3-Dichloropropane	ug/L	50	52.6	105	77-126	
1,4-Dichlorobenzene	ug/L	50	43.6	87	77-121	
2,2-Dichloropropane	ug/L	50	44.6	89	45-138	
2-Butanone (MEK)	ug/L	250	285	114	42-177	
2-Chlorotoluene	ug/L	50	46.6	93	74-129	
2-Hexanone	ug/L	250	301	120	57-162	
4-Chlorotoluene	ug/L	50	42.7	85	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	286	115	64-135	
Acetone	ug/L	250	292	117	10-200	
Acrolein	ug/L	1000	1370	137	10-200	
Acrylonitrile	ug/L	1000	1110	111	59-144	
Benzene	ug/L	50	47.5	95	76-123	
Bromobenzene	ug/L	50	42.8	86	67-130	
Bromochloromethane	ug/L	50	52.8	106	58-153	
Bromodichloromethane	ug/L	50	50.6	101	71-124	
Bromoform	ug/L	50	47.6	95	64-116	
Bromomethane	ug/L	50	54.0	108	23-197	
Carbon disulfide	ug/L	100	93.4	93	55-146	
Carbon tetrachloride	ug/L	50	46.7	93	65-125	
Chlorobenzene	ug/L	50	47.0	94	78-120	
Chloroethane	ug/L	50	55.9	112	56-163	
Chloroform	ug/L	50	52.0	104	73-122	
Chloromethane	ug/L	50	59.5	119	46-146	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	79-129	
cis-1,3-Dichloropropene	ug/L	50	43.9	88	66-123	
Dibromochloromethane	ug/L	50	50.6	101	70-123	
Dibromomethane	ug/L	50	51.4	103	73-123	
Dichlorodifluoromethane	ug/L	50	64.3	129	19-200	
Ethyl methacrylate	ug/L	200	226	113	70-127	
Ethylbenzene	ug/L	50	45.5	91	75-120	
Hexachloro-1,3-butadiene	ug/L	50	38.6	77	64-131	
Iodomethane	ug/L	100	101	101	16-181	
Isopropylbenzene (Cumene)	ug/L	50	45.9	92	73-123	
Methyl-tert-butyl ether	ug/L	100	107	107	66-128	
Methylene Chloride	ug/L	50	49.3	99	61-138	
n-Butylbenzene	ug/L	50	36.5	73	69-130	
n-Hexane	ug/L	50	45.0	90	67-142	N2
n-Propylbenzene	ug/L	50	42.8	86	71-132	
Naphthalene	ug/L	50	46.8	94	62-130	
p-Isopropyltoluene	ug/L	50	41.5	83	71-126	
sec-Butylbenzene	ug/L	50	45.7	91	69-130	
Styrene	ug/L	50	43.4	87	75-125	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

LABORATORY CONTROL SAMPLE: 886639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	38.8	78	49-114	
Tetrachloroethene	ug/L	50	41.8	84	57-125	
Toluene	ug/L	50	47.6	95	72-124	
trans-1,2-Dichloroethene	ug/L	50	43.1	86	71-145	
trans-1,3-Dichloropropene	ug/L	50	45.2	90	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	202	101	50-121	
Trichloroethene	ug/L	50	49.0	98	77-122	
Trichlorofluoromethane	ug/L	50	53.3	107	56-159	
Vinyl acetate	ug/L	200	109	54	27-119	
Vinyl chloride	ug/L	50	54.1	108	61-146	
Xylene (Total)	ug/L	150	138	92	72-126	
4-Bromofluorobenzene (S)	%.			100	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			94	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 886640 886641

Parameter	Units	5077481002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	39.7	46.7	79	93	30-122	16	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	43.5	49.7	87	99	37-136	13	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.5	45.9	97	92	47-132	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	49.5	52.8	99	106	53-131	7	20	
1,1-Dichloroethane	ug/L	ND	50	50	40.4	44.8	81	90	47-138	10	20	
1,1-Dichloroethene	ug/L	ND	50	50	40.9	47.0	82	94	54-152	14	20	
1,1-Dichloropropene	ug/L	ND	50	50	37.0	45.2	74	90	47-136	20	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	33.8	46.3	68	93	15-132	31	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	52.9	51.2	106	102	24-108	3	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	30.2	46.8	60	94	10-130	43	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	25.6	45.2	51	90	10-141	55	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	44.8	49.7	90	99	49-130	10	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	33.4	47.5	67	95	20-137	35	20	
1,2-Dichloroethane	ug/L	ND	50	50	54.4	55.8	109	112	42-139	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	43.2	47.0	86	94	50-131	8	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	24.6	43.5	49	87	10-145	55	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	28.6	46.0	57	92	13-143	47	20	
1,3-Dichloropropane	ug/L	ND	50	50	46.5	50.2	93	100	53-130	8	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	29.3	46.1	59	92	13-140	45	20	
2,2-Dichloropropane	ug/L	ND	50	50	40.6	45.0	81	90	13-142	10	20	
2-Butanone (MEK)	ug/L	ND	250	250	302	276	121	110	43-142	9	20	
2-Chlorotoluene	ug/L	ND	50	50	27.9	45.5	56	91	15-145	48	20	
2-Hexanone	ug/L	ND	250	250	300	274	120	110	46-139	9	20	
4-Chlorotoluene	ug/L	ND	50	50	26.3	44.4	53	89	12-143	51	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	306	264	122	106	43-140	15	20	
Acetone	ug/L	ND	250	250	325	302	130	121	38-155	7	20	
Acrolein	ug/L	ND	1000	1000	1280	1120	128	112	11-200	13	20	
Acrylonitrile	ug/L	ND	1000	1000	1150	1040	115	104	42-150	11	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 886640 886641

Parameter	Units	5077481002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	42.4	48.1	85	96	52-134	12	20	
Bromobenzene	ug/L	ND	50	50	31.9	45.0	64	90	25-140	34	20	
Bromochloromethane	ug/L	ND	50	50	48.4	54.4	97	109	54-144	12	20	
Bromodichloromethane	ug/L	ND	50	50	43.3	49.1	87	98	42-128	13	20	
Bromoform	ug/L	ND	50	50	48.6	44.4	97	89	34-116	9	20	
Bromomethane	ug/L	ND	50	50	49.4	59.2	99	118	10-200	18	20	
Carbon disulfide	ug/L	ND	100	100	78.7	92.7	79	93	43-144	16	20	
Carbon tetrachloride	ug/L	ND	50	50	40.3	46.8	81	94	26-136	15	20	
Chlorobenzene	ug/L	ND	50	50	34.5	49.0	69	98	33-136	35	20	
Chloroethane	ug/L	ND	50	50	54.1	58.4	108	117	21-200	8	20	
Chloroform	ug/L	ND	50	50	48.1	54.0	96	108	50-134	12	20	
Chloromethane	ug/L	ND	50	50	54.6	60.7	109	121	32-160	10	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	41.0	46.8	82	94	48-145	13	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	38.4	46.0	77	92	35-116	18	20	
Dibromochloromethane	ug/L	ND	50	50	47.3	52.4	95	105	39-122	10	20	
Dibromomethane	ug/L	ND	50	50	48.1	48.6	96	97	49-134	1	20	
Dichlorodifluoromethane	ug/L	ND	50	50	61.6	65.9	123	132	35-200	7	20	
Ethyl methacrylate	ug/L	ND	200	200	221	223	111	111	54-123	1	20	
Ethylbenzene	ug/L	ND	50	50	32.1	49.7	64	99	29-132	43	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	17.5	47.0	35	94	10-146	92	20	
Iodomethane	ug/L	ND	100	100	93.4	105	93	105	10-171	12	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	27.0	50.5	54	101	11-146	61	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	111	107	111	107	39-137	3	20	
Methylene Chloride	ug/L	ND	50	50	47.3	50.2	95	100	47-141	6	20	
n-Butylbenzene	ug/L	ND	50	50	18.1	40.7	36	81	10-156	77	20	
n-Hexane	ug/L	ND	50	50	39.5	45.0	79	90	51-137	13	20	N2
n-Propylbenzene	ug/L	ND	50	50	24.6	47.3	49	95	10-148	63	20	
Naphthalene	ug/L	ND	50	50	42.4	46.0	85	92	40-124	8	20	
p-Isopropyltoluene	ug/L	ND	50	50	21.6	45.5	43	91	10-150	71	20	
sec-Butylbenzene	ug/L	ND	50	50	23.0	47.5	46	95	10-150	70	20	
Styrene	ug/L	ND	50	50	30.7	45.0	61	90	20-143	38	20	
tert-Butylbenzene	ug/L	ND	50	50	22.3	41.6	45	83	10-123	61	20	
Tetrachloroethene	ug/L	ND	50	50	28.5	45.6	57	91	30-124	46	20	
Toluene	ug/L	ND	50	50	36.7	50.3	73	101	42-130	31	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	39.2	46.3	78	93	48-144	17	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	40.3	44.4	81	89	24-114	10	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	178	184	89	92	22-120	3	20	
Trichloroethene	ug/L	ND	50	50	39.6	50.3	79	101	44-130	24	20	
Trichlorofluoromethane	ug/L	ND	50	50	51.8	56.6	104	113	17-200	9	20	
Vinyl acetate	ug/L	ND	200	200	111	103	56	52	10-115	7	20	
Vinyl chloride	ug/L	ND	50	50	52.3	58.3	105	117	45-159	11	20	
Xylene (Total)	ug/L	ND	150	150	90.4	145	60	97	29-131	47	20	
4-Bromofluorobenzene (S)	%.						102	106	72-125		20	
Dibromofluoromethane (S)	%.						102	103	83-123		20	1d,H1, HS,p2
Toluene-d8 (S)	%.						98	103	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

QC Batch: MSV/51358 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5077377001, 5077377002, 5077377003

METHOD BLANK: 886622 Matrix: Solid
Associated Lab Samples: 5077377001, 5077377002, 5077377003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1,1-Trichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1,2-Trichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1-Dichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,1-Dichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
1,1-Dichloropropene	ug/kg	ND	5.0	03/19/13 01:46	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2,3-Trichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dichloroethane	ug/kg	ND	5.0	03/19/13 01:46	
1,2-Dichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,3-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
1,3-Dichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
1,4-Dichlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
2,2-Dichloropropane	ug/kg	ND	5.0	03/19/13 01:46	
2-Butanone (MEK)	ug/kg	ND	25.0	03/19/13 01:46	
2-Chlorotoluene	ug/kg	ND	5.0	03/19/13 01:46	
2-Hexanone	ug/kg	ND	100	03/19/13 01:46	
4-Chlorotoluene	ug/kg	ND	5.0	03/19/13 01:46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	03/19/13 01:46	
Acetone	ug/kg	ND	100	03/19/13 01:46	
Acrolein	ug/kg	ND	100	03/19/13 01:46	
Acrylonitrile	ug/kg	ND	100	03/19/13 01:46	
Benzene	ug/kg	ND	5.0	03/19/13 01:46	
Bromobenzene	ug/kg	ND	5.0	03/19/13 01:46	
Bromochloromethane	ug/kg	ND	5.0	03/19/13 01:46	
Bromodichloromethane	ug/kg	ND	5.0	03/19/13 01:46	
Bromoform	ug/kg	ND	5.0	03/19/13 01:46	
Bromomethane	ug/kg	ND	5.0	03/19/13 01:46	
Carbon disulfide	ug/kg	ND	10.0	03/19/13 01:46	
Carbon tetrachloride	ug/kg	ND	5.0	03/19/13 01:46	
Chlorobenzene	ug/kg	ND	5.0	03/19/13 01:46	
Chloroethane	ug/kg	ND	5.0	03/19/13 01:46	
Chloroform	ug/kg	ND	5.0	03/19/13 01:46	
Chloromethane	ug/kg	ND	5.0	03/19/13 01:46	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	03/19/13 01:46	
Dibromochloromethane	ug/kg	ND	5.0	03/19/13 01:46	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

METHOD BLANK: 886622 Matrix: Solid

Associated Lab Samples: 5077377001, 5077377002, 5077377003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	03/19/13 01:46	
Dichlorodifluoromethane	ug/kg	ND	5.0	03/19/13 01:46	
Ethyl methacrylate	ug/kg	ND	100	03/19/13 01:46	
Ethylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	03/19/13 01:46	
Iodomethane	ug/kg	ND	100	03/19/13 01:46	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/19/13 01:46	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/19/13 01:46	
Methylene Chloride	ug/kg	ND	20.0	03/19/13 01:46	
n-Butylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
n-Hexane	ug/kg	ND	5.0	03/19/13 01:46	N2
n-Propylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Naphthalene	ug/kg	ND	5.0	03/19/13 01:46	
p-Isopropyltoluene	ug/kg	ND	5.0	03/19/13 01:46	
sec-Butylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Styrene	ug/kg	ND	5.0	03/19/13 01:46	
tert-Butylbenzene	ug/kg	ND	5.0	03/19/13 01:46	
Tetrachloroethene	ug/kg	ND	5.0	03/19/13 01:46	
Toluene	ug/kg	ND	5.0	03/19/13 01:46	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	03/19/13 01:46	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	03/19/13 01:46	
Trichloroethene	ug/kg	ND	5.0	03/19/13 01:46	
Trichlorofluoromethane	ug/kg	ND	5.0	03/19/13 01:46	
Vinyl acetate	ug/kg	ND	100	03/19/13 01:46	
Vinyl chloride	ug/kg	ND	5.0	03/19/13 01:46	
Xylene (Total)	ug/kg	ND	10.0	03/19/13 01:46	
4-Bromofluorobenzene (S)	%.	97	67-134	03/19/13 01:46	
Dibromofluoromethane (S)	%.	109	71-125	03/19/13 01:46	
Toluene-d8 (S)	%.	108	76-124	03/19/13 01:46	

LABORATORY CONTROL SAMPLE: 886623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	52.6	105	68-125	
1,1,1-Trichloroethane	ug/kg	50	53.7	107	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.0	100	73-123	
1,1,2-Trichloroethane	ug/kg	50	54.2	108	70-124	
1,1-Dichloroethane	ug/kg	50	52.1	104	63-122	
1,1-Dichloroethene	ug/kg	50	52.3	105	71-129	
1,1-Dichloropropene	ug/kg	50	52.2	104	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	46.2	92	68-123	
1,2,3-Trichloropropane	ug/kg	50	48.8	98	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	46.7	93	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	50.2	100	69-120	

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(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

LABORATORY CONTROL SAMPLE: 886623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	50.4	101	67-121	
1,2-Dichlorobenzene	ug/kg	50	48.0	96	71-121	
1,2-Dichloroethane	ug/kg	50	54.9	110	74-120	
1,2-Dichloropropane	ug/kg	50	52.9	106	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	49.5	99	64-119	
1,3-Dichlorobenzene	ug/kg	50	46.6	93	70-122	
1,3-Dichloropropane	ug/kg	50	49.3	99	68-118	
1,4-Dichlorobenzene	ug/kg	50	48.2	96	71-118	
2,2-Dichloropropane	ug/kg	50	50.8	102	62-119	
2-Butanone (MEK)	ug/kg	250	236	94	38-154	
2-Chlorotoluene	ug/kg	50	50.4	101	71-120	
2-Hexanone	ug/kg	250	248	99	50-134	
4-Chlorotoluene	ug/kg	50	49.1	98	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	256	102	66-122	
Acetone	ug/kg	250	261	104	10-200	
Acrolein	ug/kg	1000	1280	128	11-200	
Acrylonitrile	ug/kg	1000	945	94	66-120	
Benzene	ug/kg	50	50.5	101	73-115	
Bromobenzene	ug/kg	50	50.9	102	64-130	
Bromochloromethane	ug/kg	50	56.5	113	71-127	
Bromodichloromethane	ug/kg	50	56.5	113	60-121	
Bromoform	ug/kg	50	38.8	78	44-130	
Bromomethane	ug/kg	50	54.1	108	48-175	
Carbon disulfide	ug/kg	100	101	101	71-126	
Carbon tetrachloride	ug/kg	50	49.7	99	57-127	
Chlorobenzene	ug/kg	50	49.7	99	72-121	
Chloroethane	ug/kg	50	59.7	119	72-141	
Chloroform	ug/kg	50	55.7	111	74-114	
Chloromethane	ug/kg	50	45.8	92	51-126	
cis-1,2-Dichloroethene	ug/kg	50	49.2	98	72-115	
cis-1,3-Dichloropropene	ug/kg	50	52.0	104	64-115	
Dibromochloromethane	ug/kg	50	47.3	95	58-114	
Dibromomethane	ug/kg	50	53.3	107	73-120	
Dichlorodifluoromethane	ug/kg	50	69.7	139	32-167	
Ethyl methacrylate	ug/kg	200	216	108	65-117	
Ethylbenzene	ug/kg	50	50.0	100	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	43.2	86	65-121	
Iodomethane	ug/kg	100	77.2J	77	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	49.4	99	74-123	
Methyl-tert-butyl ether	ug/kg	100	99.1	99	69-123	
Methylene Chloride	ug/kg	50	48.8	98	58-124	
n-Butylbenzene	ug/kg	50	48.6	97	71-118	
n-Hexane	ug/kg	50	45.6	91	50-106	N2
n-Propylbenzene	ug/kg	50	50.6	101	70-120	
Naphthalene	ug/kg	50	43.3	87	67-124	
p-Isopropyltoluene	ug/kg	50	50.0	100	71-123	
sec-Butylbenzene	ug/kg	50	52.1	104	66-122	
Styrene	ug/kg	50	51.2	102	75-118	

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(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

LABORATORY CONTROL SAMPLE: 886623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	42.3	85	54-124	
Tetrachloroethene	ug/kg	50	49.3	99	66-126	
Toluene	ug/kg	50	50.5	101	69-115	
trans-1,2-Dichloroethene	ug/kg	50	50.0	100	69-120	
trans-1,3-Dichloropropene	ug/kg	50	51.1	102	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	186	93	59-130	
Trichloroethene	ug/kg	50	55.7	111	71-117	
Trichlorofluoromethane	ug/kg	50	60.6	121	67-138	
Vinyl acetate	ug/kg	200	116	58	35-134	
Vinyl chloride	ug/kg	50	55.9	112	64-127	
Xylene (Total)	ug/kg	150	149	99	69-117	
4-Bromofluorobenzene (S)	%.			97	67-134	
Dibromofluoromethane (S)	%.			106	71-125	
Toluene-d8 (S)	%.			103	76-124	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5077377

QC Batch: PMST/8061 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5077377001, 5077377002, 5077377003

SAMPLE DUPLICATE: 886702

Parameter	Units	5077472001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.2	23.7	2	5	

SAMPLE DUPLICATE: 886703

Parameter	Units	5077402004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	9.3	8	5	R1

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5077377

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Multiple compounds are outside acceptance limits. Refer to LCS for system control and data acceptability. AMV 3/19/13
H1	Analysis conducted outside the EPA method holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
p2	Post-analysis pH measurement indicates pH > 2.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5077377

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5077377004	Trip Blank	EPA 8260	MSV/51364		
5077377001	MMW-13D-A (56-58')	EPA 8260	MSV/51358		
5077377002	MMW-13D-A (58-60')	EPA 8260	MSV/51358		
5077377003	Dup-2	EPA 8260	MSV/51358		
5077377001	MMW-13D-A (56-58')	ASTM D2974-87	PMST/8061		
5077377002	MMW-13D-A (58-60')	ASTM D2974-87	PMST/8061		
5077377003	Dup-2	ASTM D2974-87	PMST/8061		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1601250

Section A Required Client Information:
Company: Mundell & Associates Inc
Address: 110 S. Downey Ave
Indpls IN 46219
Email To: mark.breting@mundellassociates.com
Phone: 317 630 9020 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: MARK BRETING
Copy To: John Mundell
Purchase Order No.:
Project Name: MICHIGAN PLAZA - Soil
Project Number: M010-46 Bmain

Section C Invoice Information:
Attention: MEALE TEBBE
Company Name: See SECTION A
Address:
Pace Quote Reference:
Pace Project Manager: TINA SAYER
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER VRP
Site Location STATE: IN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Analysis Test: VOCs (8260)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs (8260)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-13D-A (56-58')	SL	G			3/11/13	11:05		4	1						1	2	X		5077377-001
2	MMW-13D-A (58-60')	↓	↓			↓	11:10		↓	↓						↓	↓	↓		-002
3	DUP-2	↓	↓			↓	00:00		↓	↓						↓	↓	↓		-003
4	Trip Blank	OT	↓			↓	09:30		3							1	2	X		-004
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Breting / Mundell	3/12/13	2:45	[illegible]	3/12/13	2:45	0.7	Y	N	Y

WIPACE Del
Kelmdler Pace 3/12/13 ORIGINAL 6116

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MARK BRETING
SIGNATURE of SAMPLER: Mark Breting
DATE Signed (MM/DD/YY): 3/11/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 50777377

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer 3/12/13/1617

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Ice/Foam blocks

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 0.7°C Ice Visible in Sample Containers: ☐ yes ☑ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/12/13 Kelly

				Comments:
Chain of Custody Present:	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☑ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☑ Yes	☐ No	☐ N/A	4.
Short Hold Time Analysis (<72hr):	☐ Yes	☑ No	☐ N/A	5. TC Kits
Rush Turn Around Time Requested:	☐ Yes	☑ No	☐ N/A	6.
Containers Intact:	☑ Yes	☐ No	☐ N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑ Yes	☐ No	☐ N/A	8. MMW-13D-B (56-58) and MMW-13D-B (55-60) on Containers + "A" on C.O.C. for each sample
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐ Yes	☐ No	☑ N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☑ N/A	
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present:	☑ Yes	☐ No	☐ N/A	11. TB are TC Kits
Trip Blank Custody Seals Present	☐ Yes	☑ No	☐ N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑ Yes	☐ No	☐ N/A	12.
Sufficient Volume:	☑ Yes	☐ No	☐ N/A	13.
Correct Containers Used:	☑ Yes	☐ No	☐ N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Mark Breting Date/Time: 3/12/13 via email

Comments/ Resolution: Use "A" in sample IDs.

Project Manager Review: T Sauer Date: 3/12/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Mundell & Assoc.

COC PAGE 1 of 1

COC ID# 11001250

Project # 5077377

Sample Line Item	DG9H	AG1U	~~WGFU~~ R	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1			4													
2																
3																
4			3													
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.02,19Apr2012

APPENDIX B

Cumulative Low Flow Sampling Data

Appendix B
Low Flow Data
1st Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Date	pH	Conductivity	Temperature (°C)	Dissolved Oxygen (ug/L)	Oxygen Reduction Potential (mV)
MMW-1S	2/28/2013	6.78	957.6	14.03	2960	88
MMW-4D	3/5/2013	7.01	1491	13.62	200	-86
MMW-6D	3/5/2013	7.11	834.6	12.81	160	-99
MMW-8S	2/28/2013	6.96	977.1	14.34	270	-82
MMW-9S	2/28/2013	6.62	1570	15.39	160	-91
MMW-10S	2/28/2013	6.69	1605	15.42	160	-74
MMW-11S	3/4/2013	7.07	893.4	13.64	3720	75
MMW-11D	3/4/2013	6.98	1058	14.63	200	49
MMW-12S	3/4/2013	6.90	1066	14.33	280	101
MMW-13D	3/4/2013	7.21	749.6	15.60	210	-56
MMW-14D	3/4/2013	6.82	972.6	15.16	220	-61
MMW-15S	3/6/2013	7.05	832.8	13.10	460	68
MMW-15D	3/6/2013	7.35	593.2	13.16	160	-94
MMW-P-01	3/4/2013	6.67	1721	16.15	140	-83
MMW-P-02	3/4/2013	6.83	1286	16.19	150	-88
MMW-P-03S	3/4/2013	6.83	784.2	15.48	160	-137
MMW-P-03D	3/4/2013	6.82	1210	15.94	110	-134
MMW-P-04	Insufficient water. Sampled with bailer					
MMW-P-05	3/4/2013	6.98	759.4	14.82	140	-152
MMW-P-06	3/4/2013	6.78	1242	15.78	110	-125
MMW-P-07	3/4/2013	6.72	1945	15.45	150	-106
MMW-P-08	3/4/2013	6.64	1625	15.69	100	-107
MMW-P-09S	3/5/2013	6.96	650.2	12.79	1840	87
MMW-P-09D	3/5/2013	7.10	856.5	12.78	260	-87
MMW-P-10S	2/28/2013	6.67	1271	15.08	150	-103
MMW-P-10D	2/28/2013	6.83	1070	15.60	130	-104
MMW-P-11S	3/6/2013	6.95	953.2	13.83	1270	-4
MMW-P-11DR	3/6/2013	7.02	1155	13.33	100	-75
MMW-P-12S	3/9/2013	6.99	1068	14.48	290	-79
MMW-P-12D	3/9/2013	7.04	1266	16.29	120	-83
MMW-P-13S	3/7/2013	7.04	555.0	11.44	8360	111
MMW-P-13D	3/7/2013	7.12	944.0	12.04	220	-81
MMW-P-14S	3/7/2013	6.91	1037	11.00	2520	74
MMW-P-14D	3/7/2013	7.06	1045	11.00	500	-29
MW-167S	Insufficient water. Sampled with bailer					
MW-167D	3/8/2013	7.08	1242	14.35	430	-34
MW-168S	Insufficient water. Sampled with bailer					
MW-168D	3/8/2013	6.94	1018	17.19	180	-84
MW-170S	3/8/2013	6.90	1377	14.25	310	161
MW-170D	3/8/2013	7.02	1234	14.87	130	-84
MMW-C-01	3/5/2013	6.91	847.6	14.94	840	-1
MMW-C-02S	3/5/2013	6.82	707.4	13.22	270	33
MMW-C-02D	3/7/2013	6.98	855.9	12.50	120	-78
MMW-C-16S	3/6/2013	6.68	1106	14.58	340	25
MMW-C-16D	3/6/2013	6.89	1246	14.60	130	-84
MMW-C-17D	3/7/2013	7.12	857.0	12.77	100	-118

ug/L - micrograms per liter

mV - millivolts

APPENDIX C

IDEM March 22, 2013 Letter

IDEM

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

March 22, 2013

Mr. Peter Cappel
AIMCO
4582 S. Ulster Street Parkway
Suite 1100
Denver, CO 80237

Re: Review of Second Revised Work Plan for the Third Round of CAP18 ME Injections
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN
VRP # 6061202

Dear Mr. Cappel:

This office has completed review of the "Second Revised Work Plan for the Third Round of CAP18 ME Injections and Interim Remediation Alternative Description Summary Report." The document was reviewed to determine consistency with the Indiana Department of Environmental Management (IDEM)'s Voluntary Remediation Program (VRP) guidelines. During the review of the document comments were generated that need to be addressed before IDEM can agree to additional application of CAP18 ME.

GENERAL COMMENTS

1. A baseline groundwater sampling event must be conducted with results communicated to IDEM prior to beginning injections. The baseline sampling should also include hydrologic testing to confirm the influence of the remedial injections on the formation. The sampling may coincide with one of the regularly scheduled quarterly monitoring events.

2. During the injections, the groundwater elevations in nearby wells should be closely monitored to evaluate hydraulic control during remedial implementation. The groundwater elevation monitoring should continue after the injections to assess the physical behavior of the substrate in the formation. The frequency of monitoring both during and after injections should be based on the results of the hydrologic testing and should be submitted to IDEM for review prior to beginning injections. Once the frequency has been agreed upon the results of groundwater elevations monitoring should be submitted with the quarterly monitoring reports.

3. CAP18 ME creates an anaerobic environment that allows fermentation to occur. Since vapor intrusion is known to occur in the area, IDEM requests that methane be monitored in wells MMW-P-11, MMW-P-12, MMW-11S, and MMW-12S during the first quarter after injections to evaluate this concern. After submittal to IDEM, the data will be evaluated to determine if methane monitoring should continue.

4. Vinyl chloride (VC) is commonly produced by CAP18 as part of the bioremediation process. Considering that several of the drinking water wells in the Vermont/Cossell neighborhood are contaminated with VC, particular attention should be given to the post injection contaminant trends in MMW-P-12, MMW-P-13, MMW-P-14, and MW-170 well nests. If post injection monitoring shows that the VC in these wells continues to increase appreciably above the baseline sampling results for more than two consecutive quarters, then a contingency plan should be implemented to prevent further degradation of the drinking water supply.

5. The report states that post injection monitoring will continue on a quarterly basis with results "submitted to IDEM at the end of the month following each sampling quarter." This is unnecessarily complex. To date, the analytical results have not been submitted to IDEM on a regular basis. It is important that the sampling results are submitted promptly so potential concerns can be addressed in a timely manner. Therefore, IDEM requests that the quarterly monitoring results be submitted approximately 60 days after sampling occurs unless a written extension request is submitted and approved.

6. The final remedial objectives for this remedy were not included in the report, but will be submitted as part of the forthcoming Remediation Work Plan (RWP). IDEM requests that the RWP be submitted within 180 days from the date of this letter. The RWP will need to propose clear, long-term remedial objectives for the project. Also, a contingency plan for potential movement of VC towards the impacted residential neighborhood should be included. As long as drinking water and vapor intrusion receptors remain and it is unlikely that the site will be able to obtain a Covenant Not To Sue without using additional remedial measures to supplement the CAP18 ME injections.

Responses to the comments contained in this letter should be submitted to IDEM prior to proceeding with the CAP 18 injections. If you have any questions, please contact me at (317) 234-2513, (800) 451-6027, or at canderson@idem.in.gov.

Sincerely,

Carmen Anderson

Carmen Anderson, Senior Project Manager
Remediation Services Branch
Office of Land Quality

cc: John Mundell, Mundell & Associates, 110 S. Downey Ave., Indianapolis, IN 46219
Andrew Gremos, ENVIRON, One Indiana Square, Suite 2335, Indianapolis, IN 46204
Bob Lewis, Genuine Parts Company, 2999 Circle 75 Parkway, Atlanta, GA 30339
Shelly Lam, US Environmental Protection Agency, 2525 N. Shadeland Ave, Indianapolis, IN 46219
Corey Webb, VRP Section Chief (via email)
Bruce Oertel, Remediation Services Branch Chief (via email)
Sarah Finley Johanson, IDEM Geology Services Section (via email)
Kristy McIntire, IDEM Chemistry Services Section (via email)

APPENDIX D

Soil Boring Logs

Boring/Well ID: MMW-08S-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/5/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 17.0 ft
BORING LOCATION: 3' NW of MMW-8S	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0			Soil	0.5				
1–2	CL		SILTY CLAY, dark gray (10YR 4/2), slightly moist, stiff, slightly plastic, with some fine granules			100		H.A. to 4'
3–4	SC		CLAYEY SAND with some gravel, grayish brown (10 YR 5/2), loose, slightly moist	3.0				TPV not recorded 0 to 20'
5–10	CL		SILTY CLAY, dark gray (10 YR 4/1), stiff, slightly moist, slightly plastic	4.5		47.5 67.5		
11–21	SM		SILTY fine to medium SAND, with some fine granules, brown (10 YR 5/3), moist, loose Coarse granules below 13.0' Minimal silt below 16.0' Wet below 17.0' Gray-black discoloration below 18.6'	10.3	0.45	52.5 75		
22–24			Fine to coarse GRANULES with SAND, gray (10YR 5/1), wet, loose, granules subrounded to rounded	21.5	0.15	77.5		

MMW-08S-A

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

H.A. = Hand Auger

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Mundell Consulting Professionals for the Earth and the Environment

Boring/Well ID: MMW-08S-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/5/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 17.0 ft
BORING LOCATION: 3' NW of MMW-8S	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-08S-A
24									
25					0.05				
26						75			
27					0.0				
28									
29					1.3				
30						62.5			
31					0.0				
32									2" Dia. Borehole
33					0.0				
34						55			
35					0.3				
36									
37					0.25				
38				38.0		70			
39	CL		SILTY CLAY, dark gray (10 YR 4/1), stiff, slightly moist, non-plastic		0.0				
40									
41			End of boring at 40.0'						
42									
43									
44									
45									
46									
47									
48									

REMARKS:
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TPV = Total Photoionizable Vapors
NS = Not Surveyed

H.A. = Hand Auger

Mundell Consulting Professionals

Boring/Well ID: MMW-09S-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 19 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-09S-A
0	AR		FILL: Brick, asphalt, gravel						
1					0.25	25			
2									
3					0.15				
4									
5	CL		SILTY CLAY, dark brown (10YR 3/3), slightly moist, stiff	5.0	0.05	60			
6									
7					0.15				
8									
9					0.1	60			
10									
11	SW		fine to coarse SAND, pale brown (10YR 6/3), slightly moist, with trace fine granules	11.0	0.2				2" Dia. Borehole
12									
13					2.1	60			
14									
15					2.5				
16									
17					4.2	60	S	16-18'	
18									
19			fine to medium SAND and fine to coarse GRANULES, gray (10YR 6/1), wet, loose	19.0	2.85				
20									
21					0.6	60			
22									
23					0.6				
24									

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Mundell
Consulting Professionals

Boring/Well ID: MMW-09S-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 19 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-09S-A
24									
25					0.1				
26						60			
27					0.1				
28									
29					0.1				
30						100			
31					0.15				
32									2" Dia. Borehole
33					0.2		S	32-34'	
34						60			
35			SILTY CLAY, gray (10YR 5/1), moist, stiff	35.0	0.2				
36									
37					0.2				
38	CL					100			
39					0.2				
40				40.0					
41			End of boring at 40 ft						
42									
43									
44									
45									
46									
47									
48									

REMARKS:
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NS = Not Surveyed

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Mundell Consulting Professionals

Boring/Well ID: MMW-10S-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0–4	AR		Fill brick, clay, rock		1.1, NS			H.A. to 3.5'
4–9.5	CL		SILTY CLAY, dark gray (10YR 4/1), slightly moist, with trace fine granules	4.0	0.1, 0.0, 0.05	87.5		
9.5–16.9	SW-GW		fine to coarse SAND with GRANULES, gray (10YR 5/1), slightly moist, loose; wet below 16 ft	9.5	0.15, NR, NR	45, 0	S	10-12'
16.9–17.8	ML		CLAYEY SILT, gray (10YR 6/1), very moist, soft, slightly plastic	16.9	0.0	50		
17.8–24	SW		Fine to coarse SAND, grayish brown (10YR 5/2), wet, loose, non-plastic	17.8	NR, 0.0, 0.0	65		

MMW-10S-A

2" Dia. Borehole

REMARKS:
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NS = Not Surveyed
NR = Not Recorded
H.A. = Hand Auger

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Boring/Well ID: MMW-10S-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-10S-A
24									
25					0.0				
26						88			
27					0.0				
28	SW								
29					0.0				
30						100			
31					0.1				
32				32.4					2" Dia. Borehole
33			GRANULES with SAND, grayish brown (10YR 5/2), wet, loose, non-plastic		0.0				
34						100			
35	CL		SILTY CLAY, gray (10YR 6/1), slightly moist, stiff, with trace coarse sand and fine granules, slightly plastic	34.6	0.0		S	34-36'	
36									
37					0.0				
38						100			
39					0.0				
40			End of Boring at 40 ft	40.0					
41									
42									
43									
44									
45									
46									
47									
48									

REMARKS:
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Mundell Consulting Professionals

Boring/Well ID: MMW-11D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/5/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION: 4' south of 11S/11D	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0			Soil	0.5				
1			Confirmed lithology to 4.0' with original soil boring log					
2					NS	100		H.A. to 4'
3								
4			Blank drill 4.0'-16.0'	4.0				
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16			SILTY SAND, brown (10YR 5/2), wet, dense, non-plastic, fine to medium grained	16.0				
17					0.0			
18	SM		Gray (10 YR 5/1) below 17.0'			82.5		
19					0.0			
20								
21					0.0			
22	SW		Fine to coarse grained SAND, brown (10YR 5/2), wet, dense, non-plastic	21.2		100		
23					0.0			
24								

MMW-11D-A

2" Dia. Borehole

REMARKS:
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TPV = Total Photoionizable Vapors
NS = Not Surveyed

H.A. = Hand Auger

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Boring/Well ID: MMW-11D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/5/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION: 4' south of 11S/11D	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-11D-A
24			GRANULES with some SAND, gray (10YR 5/1), wet, loose, non-plastic						
25					0.0				
26						75			
27				27.1	1.0				
28	SW		Fine to medium grained SAND, gray (10YR 5/1), wet, dense, non-plastic	28.0					
29	SP		Fine SAND, gray (10YR 6/1), wet, dense, non-plastic		2.9				2" Dia. Borehole
30						100			
31	SM		Fine to coarse grained SILTY SAND, gray (10YR 5/1), wet, loose, non-plastic	30.3	1.6				
32				32.1					
33	CL		SILTY CLAY, gray (10YR 5/1), slightly moist, stiff, slightly plastic		0.0	100			
34			End of boring at 34.0'	34.0					
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

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H.A. = Hand Auger

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Boring/Well ID: MMW-13D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION: 3' NW of MMW-8S	SURFACE ELEVATION: NS

SHEET 1 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-13D-A
0–4	CL		SILTY CLAY, yellowish brown, slightly moist (confirming lithology to original boring)	4.0					
4–20			Blank Drill 4 ft to 20 ft						2" Dia. Borehole

REMARKS:
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Boring/Well ID: MMW-13D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION: 3' NW of MMW-8S	SURFACE ELEVATION: NS

SHEET 2 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-13D-A
20	SP		fine SAND, gray (10 YR 6/1), loose, wet, non-plastic, with trace granules						
21	SW		fine to coarse SAND, gray (10 YR 6/1), loose, wet, non-plastic	21.0		80			
22									
23									
24	SP		fine SAND, gray (10 YR 6/1), loose, wet, non-plastic, with trace granules	24.0	0.0				
25				25.6					
26	SW-GW		fine to coarse SAND and fine to coarse GRANULES, brown (10 YR 5/4), loose, wet, non-plastic, granules subangluar to rounded			78			
27					0.0				
28									
29					NR				
30						0			2" Dia. Borehole
31					NR				
32									
33					0.2				
34						100			
35					0.1				
36									
37					0.0				
38	CL		SILTY CLAY, dark gray (10 YR 4/1), medium stiff, slightly moist, slightly plastic, with some subangular granules	37.4		100			
39	SW		fine to medium SAND, gray (10 YR 6/1), dense, wet, non-plastic	39.0	1.9				
40									

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Boring/Well ID: MMW-13D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION: 3' NW of MMW-8S	SURFACE ELEVATION: NS

SHEET 3 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-13D-A
40									
41	SP		fine SAND, gray (10 YR 6/1), dense, wet, non-plastic		0.0				
42						100			
43				43.1	0.0				
44	SW-F42		CLAYEY SAND and fine to coarse GRANULES, gray (10 YR 6/1), loose, very moist to wet, non-plastic, with small piece of clay mixed in at 43.2 ft						
45					0.05				
46						50			
47					NR				
48				48.0					
49	SW-GW		SAND and fine to coarse GRANULES, gray (10 YR 6/1), loose, very moist to wet, non-plastic		0.0				2" Dia. Borehole
50						100			
51				51.0	2.0				
52	SW		fine to medium SAND, gray (10 YR 6/1), loose, wet, non-plastic thin (0.01 ft) fragment of shale at 52 ft						
53					0.05				
54						100			
55					1.65				
56									
57					1.35		S	56-58' (DUP-2)	
58						78			
59	SW-GW		fine to coarse SAND and fine to coarse GRANULES, gray (10YR 6/1), wet, loose, non-plastic	58.5					
	CL		SANDY SILTY CLAY, very dark gray (10YR 3/1), slightly moist, medium stiff, slightly plastic	59.0	0.6		S	58-60'	
60									

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Boring/Well ID: MMW-13D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/5/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION: 3' NW of MMW-8S	SURFACE ELEVATION: NS

SHEET 4 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-13D-A
60	CL			61.0	0.3	80			2" Dia. Borehole
61									
62			End of boring at 61 ft						
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

REMARKS:
BGS = Below Ground Surface
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TPV = Total Photoionizable Vapors
NS = Not Surveyed

Mundell Consulting Professionals

Boring/Well ID: MMW-14D-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert/Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-14D-A
0–4	CL		SILTY CLAY, dark brown, slightly moist (confirmed lithology to original soil boring)					H.A. to 4 ft	
4–20			Blank drill 4 ft to 20 ft						2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

H.A. = Hand Auger

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Boring/Well ID: MMW-14D-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert/Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-14D-A
20				20.0					
21	SW		fine to coarse SAND, pale brown (10YR 6/3), wet, non-plastic		0.1				
22						100			
23				23.0	0.2				
24	CL		SILTY CLAY, gray (10YR 6/1), slightly moist, stiff	24.0					
25	SW		fine to coarse SAND, pale brown (10YR 6/3), wet, non-plastic		0.55				
26						75			
27					0.65				
28									
29					1.3				
30			GRANULES with SAND, pale brown (10YR 6/3), wet, non-plastic	30.0		90			2" Dia. Borehole
31					1.05				
32									
33					3.9				
34						75			
35					3.25				
36	CL		SILTY CLAY, gray (10YR 6/1), moist, stiff	36.0					
37			SAND and GRANULES, light grayish brown (10YR 6/2), wet, non-plastic	37.0	2.2				
38						100			
39					5.4				
40									

REMARKS:
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USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

H.A. = Hand Auger

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Boring/Well ID: MMW-14D-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert/Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 3 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-14D-A
40									
41					15.3				
42			fine to coarse GRANULES with some fine to coarse SAND, gray (10YR 6/1), wet, non-plastic	42.0		75			
43					9.95				
44			fine to coarse SAND, gray (10YR 6/1), wet, with some fine to coarse granules, non-plastic	44.0					
45					18.4		S	44-46'	
46						100			
47					9.25				
48	SW								
49					5.5				
50						100			2" Dia. Borehole
51					6.2		S	50-52'	
52				52.4					
53	CL		SILTY CLAY, gray (10YR 5/1), slightly moist, stiff	53.2	2.4				
54	SW-GW		fine to coarse SAND and fine to coarse GRANULES, gray (10YR 6/1), wet, loose, non-plastic			80			
55				55.1	1.85				
56	SP		fine SAND, light gray (10YR 7/1), wet, dense, non-plastic	56.0					
	SW		fine to medium SAND, gray (10YR 6/1), wet, medium dense, non-plastic	56.5					
57			fine to coarse SAND and fine to coarse GRANULES, gray (10YR 6/1), wet, loose		0.2				
58						58			
59					0.65				
60									

REMARKS:
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H.A. = Hand Auger

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Boring/Well ID: MMW-14D-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert/Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/11/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT Geoprobe
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 4 OF 4

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-14D-A
60									
61					1.05				
62						100			
63					0.75				2" Dia. Borehole
64				64.0					
			fine SAND, gray (10YR 6/1), wet, very dense, non-plastic						
65	SP				0.6	100			
66									
				67.0	0.45				
67			Refusal at 67 ft (driller notes refusal occured within sand)						
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									

REMARKS:
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H.A. = Hand Auger

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Boring/Well ID: MMW-P-02-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/7/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/7/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0			Asphalt	0.5				
1			Confirm lithology to 4.0'					
2								
3								
4			Blank drill 4.0 to 8.0 ft					
5								
6								
7								
8				8.0				
9			Fine to medium grained SAND, light yellowish brown (10YR 6/4), slightly moist, medium dense, non-plastic		0.7			
10	SW					60		
11					0.1			
12				12.0				
13			Fine to coarse grained SAND with some fine to coarse GRANULES, yellowish brown (10YR 5/4), slightly moist, trace clay content, medium dense		1.35		S	12-14'
14						52.5		
15					0.55			
16								
17					0.3			
18	SW					62.5		
19					6.15			
20			Wet below 20.0'					
21					13.9		S	20-22' (DUP-1)
22						77.5		
23					0.95			
24								

MMW-P-02-A

2" Dia. Borehole

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Boring/Well ID: MMW-P-02-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/7/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/7/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 20 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-P-02-A
24				24					
25	SW-GW		Fine to coarse grained SAND and fine to coarse GRANULES, gray (10YR 5/1), granules angular to subrounded, wet, loose, non-plastic		1.95	97.5			
26									
27			Fine grained SAND below 26.7 ft		1.2				2" Dia. Borehole
28									
29					0.8	87.5			
30									
31	SP		Fine grained SAND with trace granules, dark grayish brown (10YR 4/2), wet, medium dense	30.5	0.7				
32			Fine to medium grained sand below 31.1 ft						
33			End of boring at 32.0'						
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

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Mundell Consulting Professionals for the Earth and the Environment

Boring/Well ID: MMW-P-03D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/7/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/7/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 28 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-P-03D-A
0	FB		Asphalt						
1	CL		SILTY CLAY, dark gray, slightly moist (confirmed lithology to original soil boring)						
2									
3									
4			Blank Drill 4 ft to 28 ft	4.0					
5									
6									
7									
8									
9									
10									
11									
12									2" Dia. Borehole
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

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NR = Not Recorded

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Boring/Well ID: MMW-P-03D-A

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/7/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/7/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 28 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-P-03D-A
24									
25									
26									
27									
28				28.0					
29			fine to medium SAND, gray (10YR 5/1), wet, medium dense		0.45				
30	SW					88			
31					0.4				
32				32.0					2" Dia. Borehole
33			fine to coarse SAND and fine to coarse GRANULES, gray (10YR 5/1), wet, loose, non-plastic, with trace cobbles		0.6				
34						100			
35					0.65				
36			fine to coarse SAND, gray (10YR 5/1), wet, loose, non-plastic						
37					0.85				
38	SW					100			
39			with coarse granules below 38.5 ft		0.5		S	38-40'	
40	CL		SILTY CLAY, gray (10YR 5/1), dry-slightly moist, hard, slightly plastic	39.5 40.0					
41			End of boring at 40 ft						
42									
43									
44									
45									
46									
47									
48									

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Mundell Consulting Professionals

Boring/Well ID: MMW-P-04-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): NA
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-P-04-A
0	FB		Asphalt						
1	CL		CLAY	1.0					
2									
3				3.5					
4	SW		SAND	4.0					
			Blank Drill 4 ft to 16 ft						
5									
6									
7									
8									
9									
10									
11									
12									2" Dia. Borehole
13									
14									
15									
16				16.0					
17	SW		fine to medium SAND, very pale brown (10YR 7/4), with trace fine granules, slightly moist		1.6		S	16-18'	
18						60			
19					1.1				
20			wet below 20 ft						
21	CL		SANDY CLAY, gray (10YR 6/1), slightly moist, soft	21.0	0.8				
22	SW		fine to coarse SAND, gray (10YR 5/1), wet, loose, with some granules	22.0		75			
23					0.2				
24									

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Boring/Well ID: MMW-P-04-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): NA
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-P-04-A
24									
25					0.3				
26						100			
27					0.5				
28	SW								2" Dia. Borehole
29					0.15				
30						100			
31					0.25				
32				32.0					
33			End of Boring at 32 ft						
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

REMARKS:
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Boring/Well ID: MMW-P-07-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 19 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0	FB		FILL					
1			SAND	1.0				
2	SW							
3	CL		SILTY CLAY	3.0				
4			Blank Drill 4 ft to 16 ft	4.0				
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16			fine to medium SAND, pale brown (10YR 6/3), moist	16.0				
17					0.9			
18						75		
19	SW		wet below 19 ft		4.9			
20								
21					7.6		S	20-22'
22			fine to coarse SAND and fine to coarse GRANULES, gray (10YR 5/1), wet, loose	22.0		75		
23					0.6			
24								

MMW-P-07A

2" Dia. Borehole

REMARKS:
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NR = Not Recorded

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Boring/Well ID: MMW-P-07-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 19 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-P-07A
24									
25					0.4				
26						75			
27					0.55				
28									2" Dia. Borehole
29					0.85				
30			less granules between 30 and 32 ft			75			
31					0.8				
32				32.0					
33			End of Boring 32 ft						
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

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TPV = Total Photoionizable Vapors
NS = Not Surveyed

NR = Not Recorded

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Boring/Well ID: MMW-P-10D-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): NA
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0	FB		FILL					
1	SW		SAND	1.0				
2	CL		SILTY CLAY	2.0				
3								
4			Blank Drill 4 ft to 20 ft	4.0				
5								
6								
7					0.0			
8								
9					0.05			
10						45		
11					0.15			
12								
13					NR			
14						0		
15					NR			
16								
17					0.0			
18						50		
19					NR			
20	SW		fine to medium SAND, yellowish brown (10YR 6/6), wet					
21				21.0	0.7			
22	CL		SILTY CLAY, gray (10YR 5/1), slightly moist, stiff, slightly plastic			75		
23	SW		Fine to medium SAND, grayish brown (10YR 5/2), wet, non-plastic	23.0	1.7		S	22-24"
24								

MMW-P-10D

2" Dia. Borehole

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Mundell Consulting Professionals

Boring/Well ID: MMW-P-10D-A

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): NA
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	MMW-P-10D
24									
25	SW				0.45				
26						75			
27			fine to coarse SAND and fine to coarse GRANULES, gray (10YR 5/1), wet	27.0	0.4				
28									
29					2.0				
30						75			
31					3.05				
32									2" Dia. Borehole
33					6.4		S	32-34'	
34						100			
35					3.8				
36									
37					0.25		S	36-38'	
38						100			
39	CL		SILTY CLAY, gray (10YR 5/1), slightly moist, stiff	38.5	0.3				
40			End of Boring 40 ft	40.0					
41									
42									
43									
44									
45									
46									
47									
48									

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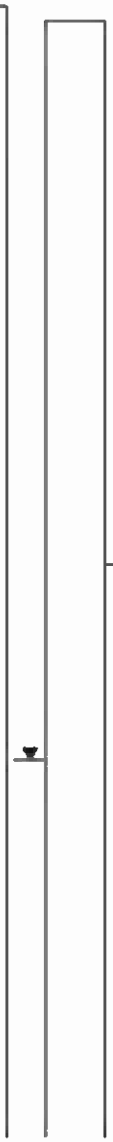
Boring/Well ID: SB-100

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0–2	AR		Fill brick, clay, rock		0.0			
3				3.0	0.0			H.A. to 4'
3–8	SC		CLAYEY SILT, brown (10YR 5/3), soft, moist, slightly plastic		0.0, 0.2	87.5		
8				8.0				
8–17	SW		Fine to medium grained SAND with trace coarse gravels, yellowish brown (10YR 5/4), moist, dense; Wet below 16.0'		0.25, NR, 0.10, NR	50, 50	S	8-10'
17				17.1	0.15			
17–20	SC		CLAYEY SILT, gray (10YR 6/1), dense, soft, wet		0.15	85		
20				20.0				
20–21	SW		Fine to coarse grained SAND, well graded, wet, dark gray (10YR 4/1) loose, trace gravel		0.05			
21				21.3				
21–24	SP		Fine SAND, poorly graded, moist, dense, dark gray (10YR 4/1), loose		0.25	100		

SB-100



2" Dia. Borehole

REMARKS:
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NS = Not Surveyed

NR = Not Recorded

03-12-2013 T:\2001\M01046 Michigan Meadows Apts\Data\Boring Logs\Miscellaneous Files\SB-100.bor

Boring/Well ID: SB-100

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	SB-100
24									
25	SP				0.2				
26			Fine to coarse grained SAND, well graded, gray (10YR 6/1), wet, loose	25.6		87.5			
27					0.2				
28	SW								
29					0.3				
30				30.1		100			2" Dia. Borehole
31			SAND with fine to coarse grained granules and trace cobbles, gray (10YR 5/1), loose, wet		0.5				
32	SW								
33			CLAY, very stiff, gray (10YR 5/1) slightly moist	32.9	0.2		S	32-34'	
34	CL					100			
35					0.2				
36			End of boring at 36.0'						
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

NR = Not Recorded

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Boring/Well ID: SB-101

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16.7
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0–4	AR		Fill: brick, clay, rock		NS	100		H.A. to 4'
4–9	CL		SILTY CLAY, very dark gray, (10YR 3/1), very stiff, slightly moist	4.0	0.7	87.5		
					0.0			
			Color change to brown below 8'					
9–14	SW		Fine to medium grained SAND with some fine granules, brown (10YR 5/3), moist, dense	9.0	0.65	50		
					0.05			
					0.9	50		
14–17	SM		SANDY SILT, pale brown (10YR 6/2), very moist, very dense	13.9	0.9		S	14-16'
17–24	SW		Fine to coarse grained SAND, grayish brown (10YR 5/2), wet, dense, non-plastic	16.7	0.05	85		
					0.0			
					0.15	100		
					0.25			
24	SW-GW		fine to coarse SAND and GRANULES, gray (10YR 6/1), wet, loose, non-plastic	23.5				

SB-101

2" Dia. Borehole

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H.A. = Hand Auger

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Boring/Well ID: SB-101

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/6/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/6/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16.7
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	SB-101
24									
25	SW-GW				0.0				
26			Fine to medium grained SAND, gray (10YR 5/1) wet, medium dense	25.8		87.5			
27	SW				0.95		S	26-28'	
28			CLAYEY SAND and GRANULES, gray (10YR 5/1), wet	28.0					
29					0.1				
30	SC-GW					100			
31					NR				
32									
33			SILTY CLAY, gray (10YR 5/1), very stiff, slightly moist	32.7	0.25				
34	CL					100			2" Dia. Borehole
35				35.1	0.5				
36	SW		Fine to medium grained SAND, wet, grayish brown (10YR 5/2), loose, non-plastic	36.0					
37			fine to coarse SAND and GRANULES, fine to coarse grained, wet, grayish brown (10YR 5/2)		0.9				
38						100			
39					1.6				
40	SW-GW		Less gravel below 40 ft						
41					3.0				
42						100			
43					2.3				
44				44.0					
45			End of boring at 44.0'						
46									
47									
48									

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Mundell Consulting Professionals

Boring/Well ID: SB-102

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/7/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/7/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0			Soil	0.5				
1–4	CL		SANDY CLAY, yellowish brown (10YR 5/6), moist, soft, plastic Dark grayish brown below 4.0'		0.15	100		H.A. to 4 ft
5–7	SP		Fine SAND, yellowish brown (10YR 5/6), slightly moist, loose, non-plastic	4.7	0.25 NR	42.5		
8–11	SC		CLAYEY SAND with fine to coarse grained GRANULES, brownish yellow (10YR 6/6), slightly moist, medium dense, non-plastic	8.0	0.1 NR	35		
12–13	ML		CLAYEY SILT, grayish brown (10YR 5/2), moist, soft, plastic	12.0 12.4	0.25		S	12-14'
13–16	SP		Fine grained SAND, light gray (10YR 7/1), slightly moist, medium dense, non-plastic Fine to medium grains below 13.0'		0.2	60		
16–24	SW		Fine to coarse grained SAND with some fine to coarse GRANULES, grayish brown (10YR 5/2), wet, medium dense, non-plastic Fine to medium grained sand with trace granules	16.0	0.2 0.3 0.8 1.05	67.5 100		

SB-102

2" Dia. Borehole

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Boring/Well ID: SB-102

CLIENT: AMMH	FIELD SCIENTIST: Mark Breting
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/7/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/7/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 16 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	SB-102
24	SW		Fine to coarse grained SAND with fine to coarse GRANULES, gray (10YR 6/1), wet, loose, non-plastic	24.2					
25					0.65				
26	SW					57.5			2" Dia. Borehole
27					0.55				
28			End of boring at 28.0'						
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									

REMARKS:
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TPV = Total Photoionizable Vapors
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Boring/Well ID: SB-103

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 18 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 1 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments
0	FB		ASPHALT/SUBBASE	0.3				
1	SW		FILL: fine to medium SAND, dark yellowish brown (10YR 4/4), with fine to coarse granules, dry		2.8			
2						100		H.A. to 4'
3					2.5			
4								
5	SW		fine to coarse SAND, light yellowish brown (10YR 6/4), dry, loose	5.0	4.1		S	4-6'
6						75		
7					0.15			
8								
9					0.9			
10						50		
11					0.5			
12								
13					0.4			
14						50		
15					0.4			
16	CL		SANDY CLAY, grayish brown (10YR 5/2), moist, soft	16.0 16.5				
17	SW		fine to coarse SAND, yellowish brown (10YR 5/4), slightly moist, with some fine to coarse granules		0.4		S	16-18'
18						50		
19			wet below 18 ft		0.2			
20								
21			color change to gray (10YR 5/1) below 21 ft		0.25			
22						100		
23					0.25			
24								

SB-103

2" Dia. Borehole

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Boring/Well ID: SB-103

CLIENT: AMMH	FIELD SCIENTIST: Gabriel Hebert
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 3/8/2013
PROJECT NAME: Michigan Plaza	DATE FINISHED: 3/8/2013
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: SCS Environmental	DRILLING EQUIPMENT: 6620 DT
DRILLER: Andy Hermes	GW DEPTH (OBSERVED): 18 ft
BORING LOCATION:	SURFACE ELEVATION: NS

SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Comments	SB-103
24	SW								
25			fine to coarse GRANULES with SAND, gray (10YR 6/1), wet, loose	25.0	1.3				
26						100			
27					1.7				
28									
29					0.65				
30						100			
31					2.0				
32									2" Dia. Borehole
33					1.85				
34						100			
35			increased silt content below 35.5 ft		2.1		S	34-36'	
36			SILTY CLAY, gray (10YR 6/1), moist, stiff	36.0					
37					0.55				
38	CL					100			
39					0.5				
40			End of Boring at 40 ft	40.0					
41									
42									
43									
44									
45									
46									
47									
48									

REMARKS:
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APPENDIX E

Air Mitigation Systems: Pounds of Contaminants Removed

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	0.6300	0.7900	0.6700	0.2800	0.0043	0.0054	0.0046	0.0019	4281.48	5368.84	4553.32	1902.88
10/6/2006	0.8800	0.6700	0.9700	0.3100	0.0060	0.0046	0.0066	0.0021	5980.48	4553.32	6592.12	2106.76
10/13/2006	0.6800	0.3600	0.5200	0.2100	0.0046	0.0024	0.0035	0.0014	4621.28	2446.56	3533.92	1427.16
10/20/2006	0.8700	0.5500	0.8900	0.2200	0.0059	0.0037	0.0060	0.0015	5912.52	3737.80	6048.44	1495.12
11/17/2006	0.8100	0.4700	0.7800	0.1500	0.0055	0.0032	0.0053	0.0010	5504.76	3194.12	5300.88	1019.40
12/27/2006	0.7400	0.4700	0.7500	0.1100	0.0050	0.0032	0.0051	0.0007	5029.04	3194.12	5097.00	747.56
3/30/2007	0.5100	0.1800	0.5700	0.0310	0.0035	0.0012	0.0039	0.0002	3465.96	1223.28	3873.72	210.68
6/15/2007	*0.0050*	0.3100	0.2100	0.4600	0.0000	0.0021	0.0014	0.0031	33.98	2106.76	1427.16	3126.16
10/16/2007	0.3900	0.2400	0.2800	0.0670	0.0027	0.0016	0.0019	0.0005	2650.44	1631.04	1902.88	455.33
12/14/2007	0.5800	0.3400	0.5200	0.1400	0.0039	0.0023	0.0035	0.0010	3941.68	2310.64	3533.92	951.44
3/27/2008	0.5500	NS	0.5600	0.0740	0.0037	NS	0.0038	0.0005	3737.80	NS	3805.76	502.90
4/1/2008	NS	0.3600	NS	NS	NS	0.0024	NS	NS	NS	2446.56	NS	NS
6/2/2008	0.7200	0.5600	0.4900	0.1000	0.0049	0.0038	0.0033	0.0007	4893.12	3805.76	3330.04	679.60
9/12/2008	0.4800	0.4700	0.5300	0.1300	0.0033	0.0032	0.0036	0.0009	3262.08	3194.12	3601.88	883.48
11/26/2008	0.4600	NS	0.3600	0.1100	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56
3/24/2009	0.4500	NS	0.5500	*0.0050*	0.0031	NS	0.0037	*0.00003*	3058.20	NS	3737.80	33.98
6/15/2009	0.4300	NS	0.4200	0.0200	0.0029	NS	0.0029	0.0001	2922.28	NS	2854.32	135.92
8/21/2009	0.3600	0.1600	0.4700	0.0140	0.0024	0.0011	0.0032	0.0001	2446.56	1087.36	3194.12	95.14
11/5/2009	0.3300	0.1400	0.4100	*0.0050*	0.0022	0.0010	0.0028	*0.00003*	2242.68	951.44	2786.36	33.98
2/5/2010	0.1600	0.0370	0.1400	0.0120	0.0011	0.0003	0.0010	0.0001	1087.36	251.45	951.44	81.55
4/23/2010	0.1300	NS	NS	0.0170	0.0009	NS	NS	0.0001	883.48	NS	NS	115.53
5/6/2010	NS	0.1500	0.2500	NS	NS	0.0010	0.0017	NS	NS	1019.40	1699.00	NS
7/23/2010	0.1500	0.1900	0.1200	*0.0050*	0.0010	0.0013	0.0008	*0.00003*	1019.40	1291.24	815.52	33.98
10/13/2010	NS	NS	NS	*0.0050*	NS	NS	NS	*0.00003*	NS	NS	NS	33.98
10/15/2010	0.0940	0.0650	*0.0050*	NS	0.0006	0.0004	*0.0000*	NS	638.82	441.74	33.98	NS
1/21/2011	0.1400	0.0270	NS	*0.0050*	0.0010	0.0002	NS	*0.00003*	951.44	183.49	NS	33.98
4/8/2011	NS	NS	0.2100	NS	NS	NS	0.0014	NS	NS	NS	1427.16	NS
5/11/2011	0.2200	0.2700	0.2100	0.0230	0.0015	0.0018	0.0014	0.0002	1495.12	1834.92	1427.16	156.31
7/29/2011	0.0660	0.1700	0.1100	*0.0050*	0.0004	0.0012	0.0007	*0.00003*	448.54	1155.32	747.56	33.98
10/25/2011	0.1100	0.1200	0.0530	*0.0050*	0.0007	0.0008	0.0004	*0.00003*	747.56	815.52	360.19	33.98
1/20/2012	0.1000	0.0810	0.0660	*0.0081*	0.0007	0.0006	0.0004	*0.00006*	679.60	550.48	448.54	55.05
6/15/2012	0.0710	0.1200	0.0480	*0.0046*	0.0005	0.0008	0.0003	*0.00003*	482.52	815.52	326.21	*31.26*
9/25/2012	0.1000	0.1800	0.0880	*0.0010*	0.0007	0.0012	0.0006	*0.00001*	679.60	1223.28	598.05	*6.80*
12/31/2012	0.2400	0.1900	0.1400	*0.0019*	0.0016	0.0013	0.0010	*0.00001*	1631.04	1291.24	951.44	*12.91*
3/20/2013	0.2300	0.2000	0.0920	0.0120	0.0016	0.0014	0.0006	*0.00008*	1563.08	1359.20	625.23	*81.55*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	0.0240	0.0120	0.0050	0.0050	0.0001	0.0001	0.00003	0.00003	129.24	64.62	26.93	26.93
10/6/2006	0.0120	0.0050	0.0050	0.0050	0.0001	0.00003	0.00003	0.00003	64.62	26.93	26.93	26.93
10/13/2006	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
10/20/2006	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
11/17/2006	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
12/27/2006	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
3/30/2007	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
6/15/2007	0.4600	0.0050	0.0050	0.0050	0.0025	0.00003	0.00003	0.00003	2,477.10	26.93	26.93	26.93
10/16/2007	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
12/14/2007	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
3/27/2008	0.0050	NS	0.0050	0.0050	0.00003	NS	0.00003	0.00003	26.93	NS	26.93	26.93
4/1/2008	NS	0.0050	NS	NS	NS	0.0000	NS	NS	NS	26.93	NS	NS
6/2/2008	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
9/12/2008	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
11/26/2008	0.0050	NS	0.0050	0.0050	0.00003	NS	0.00003	0.00003	26.93	NS	26.93	26.93
3/24/2009	0.0050	NS	0.0050	0.0050	0.00003	NS	0.00003	0.00003	26.93	NS	26.93	26.93
6/15/2009	0.0050	NS	0.0050	0.0050	0.00003	NS	0.00003	0.00003	26.93	NS	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
2/5/2010	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
4/23/2010	0.0050	NS	NS	0.0050	0.00003	NS	NS	0.00003	26.93	NS	NS	26.93
5/6/2010	NS	0.0050	0.0050	NS	NS	0.00003	0.00003	NS	NS	26.93	26.93	NS
7/23/2010	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
10/13/2010	NS	NS	NS	0.0050	NS	NS	NS	0.00003	NS	NS	NS	26.93
10/15/2010	0.0050	0.0050	0.0050	NS	0.00003	0.00003	0.00003	NS	26.93	26.93	26.93	NS
1/21/2011	0.0050	0.0050	NS	0.0050	0.00003	0.00003	NS	0.00003	26.93	26.93	NS	26.93
4/8/2011	NS	NS	0.0050	NS	NS	NS	0.00003	NS	NS	NS	26.93	NS
5/11/2011	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
7/29/2011	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
10/25/2011	0.0050	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	0.00003	26.93	26.93	26.93	26.93
1/20/2012	0.0050	0.0050	0.0011	0.0050	0.00003	0.00003	0.00001	0.00003	26.93	26.93	5.92	26.93
6/15/2012	0.0013	0.0011	0.0050	0.0050	0.00001	0.00001	0.00003	0.00003	7.00	5.92	26.93	26.93
9/25/2012	0.0013	0.0017	0.0018	0.0050	0.00001	0.00001	0.00001	0.00003	7.00	9.15	9.69	26.93
12/31/2012	0.0021	0.0019	0.0028	0.0050	0.00001	0.00001	0.00002	0.00003	11.31	10.23	15.08	26.93
3/20/2013	0.0020	0.0017	0.0022	0.0050	0.00001	0.00001	0.00001	0.00003	10.77	9.15	11.85	26.93

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
10/6/2006	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
10/13/2006	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
10/20/2006	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
11/17/2006	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
12/27/2006	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
3/30/2007	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
6/15/2007	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
10/16/2007	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
12/14/2007	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
3/27/2008	0.0150	NS	0.0150	0.0150	0.00004	NS	0.00004	0.00004	38.42	NS	38.42	38.42
4/1/2008	NS	0.0150	NS	NS	NS	0.00004	NS	NS	NS	38.42	NS	NS
6/2/2008	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
9/12/2008	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
11/26/2008	0.0150	NS	0.0150	0.0150	0.00004	NS	0.00004	0.00004	38.42	NS	38.42	38.42
3/24/2009	0.0150	NS	0.0150	0.0150	0.00004	NS	0.00004	0.00004	38.42	NS	38.42	38.42
6/15/2009	0.0150	NS	0.0150	0.0150	0.00004	NS	0.00004	0.00004	38.42	NS	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
4/23/2010	0.0150	NS	NS	0.0150	0.00004	NS	NS	0.00004	38.42	NS	NS	38.42
5/6/2010	NS	0.0150	0.0150	NS	NS	0.00004	0.00004	NS	NS	38.42	38.42	NS
7/23/2010	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
10/13/2010	NS	NS	NS	0.0150	NS	NS	NS	0.00004	NS	NS	NS	38.42
10/15/2010	0.0150	0.0150	0.0150	NS	0.00004	0.00004	0.00004	NS	38.42	38.42	38.42	NS
1/21/2011	0.0150	0.0150	NS	0.0150	0.00004	0.00004	NS	0.00004	38.42	38.42	NS	38.42
4/8/2011	NS	NS	0.0150	NS	NS	NS	0.00004	NS	NS	NS	38.42	NS
5/11/2011	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
7/29/2011	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
10/25/2011	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
1/20/2012	0.2000	0.1100	0.0150	0.0150	0.00051	0.00028	0.00004	0.00004	512.20	281.71	38.42	38.42
6/15/2012	0.0150	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	0.00004	38.42	38.42	38.42	38.42
9/25/2012	0.0150	0.0150	0.1400	0.1000	0.00004	0.00004	0.00036	0.00026	38.42	38.42	358.54	256.10
12/31/2012	0.3300	1.6000	0.2300	0.0150	0.00085	0.00410	0.00059	0.00004	845.13	4,097.60	589.03	38.42
3/20/2013	0.2000	0.2100	0.0960	0.0150	0.00051	0.00054	0.00025	0.00004	512.20	537.81	245.86	38.42

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				(µg/m^3)			
9/21/2006	0.1400	0.0100	0.0100	0.0100	0.0006	0.00004	0.00004	0.00004	556.22	39.73	39.73	39.73
10/6/2006	0.0300	0.0100	0.0100	0.0100	0.0001	0.00004	0.00004	0.00004	119.19	39.73	39.73	39.73
10/13/2006	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
10/20/2006	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
11/17/2006	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
12/27/2006	0.0240	0.0100	0.0100	0.0100	0.0001	0.00004	0.00004	0.00004	95.35	39.73	39.73	39.73
3/30/2007	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
6/15/2007	0.2100	0.0100	0.0100	0.0100	0.0008	0.00004	0.00004	0.00004	834.33	39.73	39.73	39.73
10/16/2007	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
12/14/2007	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
3/27/2008	0.0340	NS	0.0100	0.0100	0.0001	NS	0.00004	0.00004	135.08	NS	39.73	39.73
4/1/2008	NS	0.0100	NS	NS	NS	0.00004	NS	NS	NS	39.73	NS	NS
6/2/2008	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
9/12/2008	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
11/26/2008	0.0100	NS	0.0100	0.0100	0.00004	NS	0.00004	0.00004	39.73	NS	39.73	39.73
3/24/2009	0.0100	NS	0.0100	0.0100	0.00004	NS	0.00004	0.00004	39.73	NS	39.73	39.73
6/15/2009	0.0100	NS	0.0100	0.0100	0.00004	NS	0.00004	0.00004	39.73	NS	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
4/23/2010	0.0100	NS	NS	0.0100	0.00004	NS	NS	0.00004	39.73	NS	NS	39.73
5/6/2010	NS	0.0100	0.0100	NS	NS	0.00004	0.00004	NS	NS	39.73	39.73	NS
7/23/2010	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
10/13/2010	NS	NS	NS	0.0100	NS	NS	NS	0.00004	NS	NS	NS	39.73
10/15/2010	0.0100	0.0100	0.0100	NS	0.00004	0.00004	0.00004	NS	39.73	39.73	39.73	NS
1/21/2011	0.0100	0.0100	NS	0.0100	0.00004	0.00004	NS	0.00004	39.73	39.73	NS	39.73
4/8/2011	NS	NS	0.0500	NS	NS	NS	0.0002	NS	NS	NS	198.65	NS
5/11/2011	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
7/29/2011	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
10/25/2011	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
1/20/2012	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
6/15/2012	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
9/25/2012	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
12/31/2012	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73
3/20/2013	0.0100	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	0.00004	39.73	39.73	39.73	39.73

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	0.1300	1.2000	NS	0.0009	0.0082	NS	883.48	8155.20	NS
3/28/2008	0.0730	0.4900	NS	0.0005	0.0033	NS	496.11	3330.04	NS
4/7/2008	NS	NS	0.0760	NS	NS	0.0005	NS	NS	516.50
4/8/2008	NS	NS	0.0470	NS	NS	0.0003	NS	NS	319.41
4/24/2008	0.0540	0.1100	0.0220	0.0004	0.0007	0.0001	366.98	747.56	149.51
5/1/2008	0.0580	0.2100	0.0390	0.0004	0.0014	0.0003	394.17	1427.16	265.04
6/2/2008	0.0590	0.2200	0.0530	0.0004	0.0015	0.0004	400.96	1495.12	360.19
7/10/2008	0.0650	NS	0.0540	0.0004	NS	0.0004	441.74	NS	366.98
8/20/2008	NS	0.2700	NS	NS	0.0018	NS	NS	1834.92	NS
9/12/2008	0.0690	0.1800	0.0540	0.0005	0.0012	0.0004	468.92	1223.28	366.98
11/26/2008	0.0720	0.1100	0.0560	0.0005	0.0007	0.0004	489.31	747.56	380.58
3/24/2009	0.2100	0.1300	0.0590	0.0014	0.0009	0.0004	1427.16	883.48	400.96
6/15/2009	0.0580	0.0840	*0.0050*	0.0004	0.0006	*0.00003*	394.17	570.86	*33.98*
8/21/2009	0.0630	0.0710	*0.0050*	0.0004	0.0005	*0.00003*	428.15	482.52	*33.98*
11/5/2009	0.1300	0.1100	*0.0050*	0.0009	0.0007	*0.00003*	883.48	747.56	*33.98*
2/5/2010	0.0220	0.0800	*0.0050*	0.0001	0.0005	*0.00003*	149.51	543.68	*33.98*
2/6/2010	0.0220	0.0800	*0.0050*	0.0001	0.0005	*0.00003*	149.51	543.68	*33.98*
4/23/2010	0.0120	NS	*0.0050*	0.0001	NS	*0.00003*	81.55	NS	*33.98*
5/12/2010	NS	0.1300	NS	NS	0.0009	NS	NS	883.48	NS
7/23/2010	0.0270	0.1000	*0.0050*	0.0002	0.0007	*0.00003*	183.49	679.60	*33.98*
10/15/2010	0.0150	0.0190	*0.0050*	0.0001	0.0001	*0.00003*	101.94	129.12	*33.98*
1/21/2011	0.0330	0.0490	*0.0050*	0.0002	0.0003	*0.00003*	224.27	333.00	*33.98*
5/11/2011	0.0580	0.0610	*0.0050*	0.0004	0.0004	*0.00003*	394.17	414.56	*33.98*
7/29/2011	0.0220	0.0210	*0.0050*	0.0001	0.0001	*0.00003*	149.51	142.72	*33.98*
10/25/2011	0.0300	0.0250	*0.0050*	0.0002	0.0002	*0.00003*	203.88	169.90	*33.98*
1/20/2012	0.0220	0.0180	*0.0029*	0.0001	0.0001	*0.00002*	149.51	122.33	*19.71*
6/15/2012	0.0140	0.0110	*0.0025*	0.0001	0.0001	*0.00002*	95.14	74.76	*16.99*
9/25/2012	0.0180	0.0310	*0.0050*	0.0001	0.0002	*0.00003*	122.33	210.68	*33.98*

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
12/31/2012	0.0170	0.0240	*0.0050*	0.0001	0.0002	*0.00003*	115.53	163.10	*33.98*
3/20/2013	0.0600	0.0380	*0.0050*	0.0004	0.0003	*0.00003*	407.76	258.25	*33.98*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	0.0050	0.0050	NS	0.00003	0.00003	NS	26.93	26.93	NS
3/28/2008	0.0050	0.0050	NS	0.00003	0.00003	NS	26.93	26.93	NS
4/7/2008	NS	NS	0.0050	NS	NS	0.00003	NS	NS	26.93
4/8/2008	NS	NS	0.0050	NS	NS	0.00003	NS	NS	26.93
4/24/2008	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
5/1/2008	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
6/2/2008	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
7/10/2008	0.0050	NS	0.0050	0.00003	NS	0.00003	26.93	NS	26.93
8/20/2008	NS	0.0050	NS	NS	0.00003	NS	NS	26.93	NS
9/12/2008	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
11/26/2008	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
3/24/2009	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
6/15/2009	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
2/5/2010	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
2/6/2010	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
4/23/2010	0.0050	NS	0.0050	0.00003	NS	0.00003	26.93	NS	26.93
5/12/2010	NS	0.0050	NS	NS	0.00003	NS	NS	26.93	NS
7/23/2010	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
10/15/2010	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
1/21/2011	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
5/11/2011	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
7/29/2011	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
10/25/2011	0.0050	0.0050	0.0050	0.00003	0.00003	0.00003	26.93	26.93	26.93
1/20/2012	0.0012	0.0050	0.0050	0.00001	0.00003	0.00003	6.46	26.93	26.93
6/15/2012	0.0015	0.0050	0.0050	0.00001	0.00003	0.00003	8.08	26.93	26.93
9/25/2012	0.0012	0.0050	0.0050	0.00001	0.00003	0.00003	6.46	26.93	26.93

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
12/31/2012	*0.0011*	*0.0050*	*0.0050*	*0.00001*	*0.00003*	*0.00003*	*5.92*	*26.93*	*26.93*
3/20/2013	*0.0034*	*0.0050*	*0.0050*	*0.00002*	*0.00003*	*0.00003*	*18.31*	*26.93*	*26.93*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Maple Creek Village Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	0.0150	0.0150	NS	0.00004	0.00004	NS	38.42	38.42	NS
3/28/2008	0.0150	0.0150	NS	0.00004	0.00004	NS	38.42	38.42	NS
4/7/2008	NS	NS	0.0150	NS	NS	0.00004	NS	NS	38.42
4/8/2008	NS	NS	0.0150	NS	NS	0.00004	NS	NS	38.42
4/24/2008	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
5/1/2008	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
6/2/2008	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
7/10/2008	0.0150	NS	0.0150	0.00004	NS	0.00004	38.42	NS	38.42
8/20/2008	NS	0.0150	NS	NS	0.00004	NS	NS	38.42	NS
9/12/2008	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
11/26/2008	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
3/24/2009	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
6/15/2009	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
2/6/2010	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
4/23/2010	0.0150	NS	0.0150	0.00004	NS	0.00004	38.42	NS	38.42
5/12/2010	NS	0.0150	NS	NS	0.00004	NS	NS	38.42	NS
7/23/2010	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
10/15/2010	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
1/21/2011	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
5/11/2011	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
7/29/2011	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
10/25/2011	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
1/20/2012	0.0150	0.0150	0.0150	0.00004	0.00004	0.00004	38.42	38.42	38.42
6/15/2012	0.3300	0.1400	0.1200	0.00085	0.00036	0.00031	845.13	358.54	307.32
9/25/2012	0.1500	0.1100	0.0150	0.00038	0.00028	0.00004	384.15	281.71	38.42

APPENDIX E

Air Mitigation System - Historical Air Analytical Results

Maple Creek Village Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			(µg/m^3)		
12/31/2012	*0.2000*	*0.1400*	*0.1500*	*0.00051*	*0.00036*	*0.00038*	*512.20*	*358.54*	*384.15*
3/20/2013	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Maple Creek Village Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	0.0100	0.0100	NS	0.00004	0.00004	NS	39.73	39.73	NS
3/28/2008	0.0100	0.0100	NS	0.00004	0.00004	NS	39.73	39.73	NS
4/7/2008	NS	NS	0.0100	NS	NS	0.00004	NS	NS	39.73
4/8/2008	NS	NS	0.0100	NS	NS	0.00004	NS	NS	39.73
4/24/2008	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
5/1/2008	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
6/2/2008	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
7/10/2008	0.0100	NS	0.0100	0.00004	NS	0.00004	39.73	NS	39.73
8/20/2008	NS	0.0100	NS	NS	0.00004	NS	NS	39.73	NS
9/12/2008	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
11/26/2008	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
3/24/2009	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
6/15/2009	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
2/6/2010	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
4/23/2010	0.0100	NS	0.0100	0.00004	NS	0.00004	39.73	NS	39.73
5/12/2010	NS	0.0100	NS	NS	0.00004	NS	NS	39.73	NS
7/23/2010	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
10/15/2010	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
1/21/2011	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
5/11/2011	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
7/29/2011	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
10/25/2011	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
1/20/2012	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73
6/15/2012	0.0100	0.0100	0.0340	0.00004	0.00004	0.00014	39.73	39.73	135.08
9/25/2012	0.0100	0.0100	0.0100	0.00004	0.00004	0.00004	39.73	39.73	39.73

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Maple Creek Village Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
12/31/2012	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
3/20/2013	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Lab Data for Air Mitigation System B-1
First Quarter 2013
4/9/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-1 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed (µg/m3)	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	73	2,190	4,281	0.00	129	0.00	38	0.00	556	0.00	0.00	0.00	0.00
10/6/2006	360	73	1,576,800	5,980	0.59	65	0.01	38	0.00	119	0.01	0.61	0.59	0.61
10/13/2006	168	73	735,840	4,621	0.21	27	0.00	38	0.00	40	0.00	0.22	0.80	0.83
10/20/2006	168	73	735,840	5,913	0.27	27	0.00	38	0.00	40	0.00	0.28	1.07	1.10
11/17/2006	672	73	2,943,360	5,505	1.01	27	0.00	38	0.01	40	0.01	1.03	2.08	2.13
12/27/2006	960	73	4,204,800	5,029	1.32	27	0.01	38	0.01	95	0.03	1.36	3.40	3.50
3/30/2007	2,232	73	9,776,160	3,466	2.11	27	0.02	38	0.02	40	0.02	2.18	5.52	5.67
6/15/2007	1,848	73	8,094,240	34	0.02	2,477	1.25	38	0.02	834	0.42	1.71	5.53	7.38
10/16/2007	2,952	73	12,929,760	2,650	2.14	27	0.02	38	0.03	40	0.03	2.22	7.67	9.60
12/14/2007	1,416	73	6,202,080	3,942	1.52	27	0.01	38	0.01	40	0.02	1.57	9.20	11.17
3/27/2008	2,496	73	10,932,480	3,738	2.55	27	0.02	38	0.03	135	0.09	2.69	11.74	13.86
6/2/2008	1,608	73	7,043,040	4,893	2.15	27	0.01	38	0.02	40	0.02	2.20	13.89	16.05
9/12/2008	2,448	73	10,722,240	3,262	2.18	27	0.02	38	0.03	40	0.03	2.25	16.08	18.30
11/26/2008	1,800	73	7,884,000	3,126	1.54	27	0.01	38	0.02	40	0.02	1.59	17.61	19.89
3/24/2009	2,832	73	12,404,160	3,058	2.37	27	0.02	38	0.03	40	0.03	2.45	19.98	22.34
6/15/2009	1,992	73	8,724,960	2,922	1.59	27	0.01	38	0.02	40	0.02	1.65	21.57	23.99
8/21/2009	1,608	73	7,043,040	2,447	1.07	27	0.01	38	0.02	40	0.02	1.12	22.65	25.11
11/5/2009	1,824	73	7,989,120	2,243	1.12	27	0.01	38	0.02	40	0.02	1.17	23.76	26.28
2/5/2010	2,208	73	9,671,040	1,087	0.66	27	0.02	38	0.02	40	0.02	0.72	24.42	27.00
4/23/2010	1,848	55	6,098,400	883	0.34	27	0.01	38	0.01	40	0.02	0.38	24.75	27.37
7/23/2010	2,184	55	7,207,200	1,019	0.46	27	0.01	38	0.02	40	0.02	0.51	25.21	27.88
10/15/2010	2,016	73	8,830,080	639	0.35	27	0.01	38	0.02	40	0.02	0.41	25.57	28.29
1/21/2011	2,352	55	7,761,600	951	0.46	27	0.01	38	0.02	40	0.02	0.51	26.03	28.80
5/11/2011	2,640	73	11,563,200	1,495	1.08	27	0.02	38	0.03	40	0.03	1.15	27.10	29.95
7/29/2011	1,896	73	8,304,480	449	0.23	27	0.01	38	0.02	40	0.02	0.29	27.34	30.24
10/25/2011	2,112	55	6,969,600	748	0.33	27	0.01	38	0.02	40	0.02	0.37	27.66	30.61
1/20/2012	2,088	55	6,890,400	680	0.29	27	0.01	512	0.22	40	0.02	0.54	27.95	31.15
6/15/2012	3,528	55	11,642,400	483	0.35	7	0.01	38	0.03	40	0.03	0.41	28.30	31.57
9/25/2012	2,448	73	10,722,240	680	0.45	7	0.00	38	0.03	40	0.03	0.51	28.76	32.08
12/31/2012	2,328	73	10,196,640	1,631	1.04	11	0.01	845	0.54	40	0.03	1.61	29.80	33.68
3/20/2013	1,896	132	15,016,320	1,563	1.46	11	0.01	512	0.48	40	0.04	1.99	31.26	35.68
TOTALS:	56,929		240,817,710		31		2		2		1	35.68		

B-1 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum. Total lbs Removed (Est. from PID)
11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.27
12/27/2006	960	73	4,204,800	0.0	1,296	0.34	0.61
6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.26
10/16/2007	2,952	73	12,929,760	0.1	1,483	1.20	3.46
12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.03
6/2/2008	4,104	73	17,975,520	2.2	5,401	6.06	10.09
9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.33
11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.06
8/21/2009	6,432	73	28,172,160	3.8	8,387	14.74	26.80
11/5/2009	1,824	73	7,989,120	2.1	5,215	2.60	29.40
2/5/2010	2,208	73	9,671,040	2.3	5,588	3.37	32.77
5/6/2010	2,160	55	7,128,000	2.2	5,401	2.40	35.17
10/15/2010	3,888	73	17,029,440	2.0	5,028	5.34	40.51
1/21/2011	2,352	55	7,761,600	1.9	4,841	2.34	42.86
5/11/2011	2,640	73	11,563,200	1.9	4,841	3.49	46.35
7/29/2011	1,896	73	8,304,480	1.1	3,349	1.73	48.08
10/25/2011	2,112	55	6,969,600	2.1	5,215	2.27	50.35
1/20/2012	2,088	55	6,890,400	1.7	4,468	1.92	52.27
6/15/2012	3,528	55	11,642,400	2.4	5,774	4.19	56.46
9/25/2012	2,448	73	10,722,240	2.5	5,961	3.99	60.45
12/31/2012	2,328	73	10,196,640	0.3	1,856	1.18	61.63
3/20/2013	1,896	132	15,016,320	0.1	1,483	1.39	63.02
TOTALS:	56,232		239,788,800			63.02	

Lab Data for Air Mitigation System B-2
First Quarter 2013
4/9/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-2 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	37	1,110	5,389	0.00	65	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	37	799,200	4,553	0.23	27	0.00	38	0.00	40	0.00	0.23	0.23	0.23
10/13/2006	168	37	372,960	2,447	0.06	27	0.00	38	0.00	40	0.00	0.06	0.28	0.29
10/20/2006	168	37	372,960	3,738	0.09	27	0.00	38	0.00	40	0.00	0.09	0.37	0.38
11/17/2006	672	37	1,491,840	3,194	0.30	27	0.00	38	0.00	40	0.00	0.31	0.67	0.69
12/27/2006	960	37	2,131,200	3,194	0.42	27	0.00	38	0.01	40	0.01	0.44	1.09	1.13
3/30/2007	2,232	38	5,088,960	1,223	0.39	27	0.01	38	0.01	40	0.01	0.42	1.48	1.55
6/15/2007	1,848	42	4,656,960	2,107	0.61	27	0.01	38	0.01	40	0.01	0.64	2.09	2.19
10/16/2007	2,952	48	8,501,760	1,631	0.86	27	0.01	38	0.02	40	0.02	0.92	2.96	3.11
12/14/2007	1,416	53	4,502,880	2,311	0.65	27	0.01	38	0.01	40	0.01	0.68	3.61	3.79
4/1/2008	2,616	50	7,848,000	2,447	1.20	27	0.01	38	0.02	40	0.02	1.25	4.81	5.04
6/2/2008	1,488	42	3,705,120	3,808	0.88	27	0.01	38	0.01	40	0.01	0.90	5.68	5.94
9/12/2008	2,448	37	5,434,560	3,194	1.08	27	0.01	38	0.01	40	0.01	1.12	6.77	7.06
8/21/2009	1,440	37	3,196,800	1,087	0.22	27	0.01	38	0.01	40	0.01	0.24	6.98	7.30
11/5/2009	1,824	37	4,049,280	951	0.24	27	0.01	38	0.01	40	0.01	0.27	7.22	7.57
2/5/2010	2,208	55	7,286,400	251	0.11	27	0.01	38	0.02	40	0.02	0.16	7.34	7.73
5/6/2010	2,160	37	4,795,200	1,019	0.30	27	0.01	38	0.01	40	0.01	0.34	7.64	8.06
7/23/2010	1,872	37	4,155,840	1,291	0.33	27	0.01	38	0.01	40	0.01	0.36	7.98	8.43
10/15/2010	2,016	55	6,652,800	442	0.18	27	0.01	38	0.02	40	0.02	0.23	8.16	8.65
1/21/2011	2,352	55	7,761,600	183	0.09	27	0.01	38	0.02	40	0.02	0.14	8.25	8.79
5/11/2011	2,640	37	5,860,800	1,835	0.67	27	0.01	38	0.01	40	0.01	0.71	8.92	9.50
7/29/2011	1,896	37	4,209,120	1,155	0.30	27	0.01	38	0.01	40	0.01	0.33	9.23	9.83
10/25/2011	2,112	37	4,688,640	816	0.24	27	0.01	38	0.01	40	0.01	0.27	9.16	10.10
1/20/2012	2,088	37	4,635,360	550	0.16	27	0.01	282	0.08	40	0.01	0.26	9.38	10.36
6/15/2012	3,528	37	7,832,160	816	0.40	6	0.00	38	0.02	40	0.02	0.44	9.56	10.80
9/25/2012	2,448	37	5,434,560	1,223	0.41	9	0.00	38	0.01	40	0.01	0.44	9.80	11.25
12/31/2012	2,328	55	7,682,400	1,291	0.62	10	0.00	4,098	1.96	40	0.02	2.61	10.18	13.85
3/20/2013	1,896	115	13,082,400	1,359	1.11	9	0.01	538	0.44	40	0.03	1.59	10.91	15.44
TOTALS:	50,137		136,230,870		12.16		0.19		2.75		0.34	15.44		

B-2 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum. Total lbs Removed (Est from PID)
11/17/2006	672.0	37	1,491,840	0.1	1,483	0.14	0.14
12/27/2006	960	37	2,131,200	0.1	1,483	0.20	0.34
6/15/2007	4,080	37	9,057,600	0.1	1,483	0.84	1.17
10/16/2007	2,952	37	6,553,440	0.1	1,483	0.61	1.78
12/14/2007	1,416	55	4,672,800	0.1	1,483	0.43	2.21
6/2/2008	4,104	132	32,503,680	1.5	4,095	8.30	10.51
9/12/2008	2,448	37	5,434,560	0.5	2,229	0.76	11.27
8/21/2009	8,232	55	27,165,600	2.4	5,774	9.79	21.05
11/5/2009	1,824	94	10,287,360	1.6	4,282	2.75	23.80
2/5/2010	2,208	55	7,286,400	0.6	2,416	1.10	24.90
5/6/2010	2,160	37	4,795,200	1.4	3,908	1.17	26.07
10/15/2010	3,888	55	12,830,400	3.2	7,267	5.82	31.89
1/21/2011	2,352	55	7,761,600	1.4	3,908	1.89	33.78
5/11/2011	2,640	37	5,860,800	1.6	4,282	1.57	35.34
7/29/2011	1,896	37	4,209,120	1.7	4,468	1.2	36.52
10/25/2011	2,112	37	4,688,640	1.9	4,841	1.4	37.93
1/20/2012	2,088	37	4,635,360	1.5	4,095	1.2	39.12
6/15/2012	3,528	37	7,832,160	2.8	6,521	3.2	42.30
9/25/2012	2,448	37	5,434,560	2.9	6,707	2.3	44.58
12/31/2012	2,328	55	7,682,400	4.3	9,320	4.5	49.04
3/20/2013	1,896	115	13,082,400	1.4	3,908	3.2	52.23
TOTALS:	54,336		185,397,120			52.23	

Lab Data for Air Mitigation System B-3
First Quarter 2013
4/9/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-3 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	132	2,851,200	6,592	1.17	27	0.00	38	0.01	40	0.01	1.19	1.17	1.19
10/13/2006	168	132	1,330,560	3,534	0.29	27	0.00	38	0.00	40	0.00	0.30	1.47	1.49
10/20/2006	168	132	1,330,560	6,048	0.50	27	0.00	38	0.00	40	0.00	0.51	1.97	2.01
11/17/2006	672	132	5,322,240	5,301	1.76	27	0.01	38	0.01	40	0.01	1.79	3.73	3.80
12/27/2006	960	132	7,603,200	5,097	2.42	27	0.01	38	0.02	40	0.02	2.47	6.15	6.27
3/30/2007	2,232	132	17,677,440	3,874	4.27	27	0.03	38	0.04	40	0.04	4.39	10.42	10.65
6/15/2007	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	40	0.04	1.40	11.72	12.05
10/16/2007	2,952	132	23,379,840	1,903	2.78	27	0.04	38	0.06	40	0.06	2.93	14.50	14.98
12/14/2007	1,416	132	11,214,720	3,534	2.47	27	0.02	38	0.03	40	0.03	2.55	16.97	17.53
3/27/2008	2,496	132	19,768,320	3,806	4.69	27	0.03	38	0.05	40	0.05	4.82	21.66	22.35
6/2/2008	1,608	55	5,306,400	3,330	1.10	27	0.01	38	0.01	40	0.01	1.14	22.76	23.49
9/12/2008	2,448	132	19,388,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	27.12	27.97
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	29.30	30.24
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	34.52	35.62
6/15/2009	1,992	132	15,776,640	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	37.33	38.53
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	39.87	41.15
11/5/2009	1,824	132	14,446,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	42.38	43.75
2/5/2010	2,208	132	17,487,360	951.44	1.04	26.93	0.03	38	0.04	40	0.04	1.15	43.42	44.91
5/6/2010	2,160	132	17,107,200	1,699	1.81	27	0.03	38	0.04	40	0.04	1.93	45.23	46.83
7/23/2010	1,872	132	14,826,240	816	0.75	27	0.02	38	0.04	40	0.04	0.85	45.99	47.68
10/15/2010	2,016	132	15,966,720	34	0.03	27	0.03	38	0.04	40	0.04	0.14	46.02	47.82
1/21/2011	2,352	132	18,627,840	NS	0.00	NS	0.00	NS	0.00	NS	0.00	0.00	46.02	47.82
4/8/2011	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	199	0.18	1.54	47.32	49.37
5/11/2011	792	132	6,272,640	1,427	0.56	27	0.01	38	0.02	40	0.02	0.60	47.88	49.97
7/29/2011	1,896	132	15,016,320	748	0.70	27	0.03	38	0.04	40	0.04	0.80	48.58	50.76
10/25/2011	2,112	132	16,727,040	360	0.38	27	0.03	38	0.04	40	0.04	0.49	48.96	51.25
1/20/2012	2,088	55	6,890,400	449	0.19	6	0.00	38	0.02	40	0.02	0.23	49.15	51.48
6/15/2012	3,528	132	27,941,760	326	0.57	27	0.05	38	0.07	40	0.07	0.75	49.72	52.23
9/25/2012	2,448	132	19,388,160	598	0.72	10	0.01	359	0.43	40	0.05	1.22	50.44	53.45
12/31/2012	2,328	132	18,437,760	951	1.09	15	0.02	589	0.68	40	0.05	1.83	51.54	55.28
3/20/2013	1,896	132	15,016,320	625	0.59	12	0.01	245	0.23	40	0.04	0.86	52.12	56.15
TOTALS:	56,929		433,798,200		52.12		0.64		2.21		1.17	56.15		

B-3 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum. Total lbs Removed (Est. from PID)
11/17/2006	672	132	5,322,240	2.0	5,028	1.67	1.67
12/27/2006	960	132	7,603,200	0.1	1,483	0.70	2.37
6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	5.36
10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	7.52
12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	8.56
6/2/2008	4,104	55	13,543,200	1.2	3,535	2.99	11.55
9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	14.24
11/26/2008	1,800	132	14,256,000	0.8	2,789	2.48	16.72
8/21/2009	6,432	132	50,941,440	0.0	1,296	4.12	20.84
11/5/2009	1,824	132	14,446,080	1.8	4,655	4.19	25.04
2/5/2010	2,208	132	17,487,360	1.5	4,095	4.47	29.50
5/6/2010	2,160	132	17,107,200	1.7	4,468	4.77	34.27
10/15/2010	3,888	132	30,792,960	0.1	1,483	2.85	37.12
1/21/2011	2,352	132	18,627,840	1.4	3,908	4.54	41.66
4/8/2011	1,848	132	14,636,160	2.4	5,774	5.27	46.93
5/11/2011	792	132	6,272,640	1.2	3,535	1.38	48.32
7/29/2011	1,896	132	15,016,320	1.3	3,722	3.5	51.80
10/25/2011	2,112	132	16,727,040	1.5	4,095	4.3	56.07
1/20/2012	2,088	55	6,890,400	1.4	3,908	1.7	57.75
6/15/2012	3,528	132	27,941,760	1.4	3,908	6.8	64.57
9/25/2012	2,448	132	19,388,160	1.5	4,095	5.0	69.52
12/31/2012	2,328	132	18,437,760	0.6	2,416	2.8	72.30
3/20/2013	1,896	132	15,016,320	0.1	1,483	1.4	73.69
TOTALS:	56,232		416,750,400			73.69	

Lab Data for Air Mitigation System B-4
First Quarter 2013
4/9/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-4 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	132	3,960	1,903	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	132	2,851,200	2,107	0.37	27	0.00	38	0.01	40	0.01	0.39	0.38	0.39
10/13/2006	168	132	1,330,560	1,427	0.12	27	0.00	38	0.00	40	0.00	0.13	0.49	0.52
10/20/2006	168	132	1,330,560	1,495	0.12	27	0.00	38	0.00	40	0.00	0.13	0.62	0.65
11/17/2006	672	132	5,322,240	1,019	0.34	27	0.01	38	0.01	40	0.01	0.37	0.96	1.03
12/27/2006	960	132	7,603,200	748	0.35	27	0.01	38	0.02	40	0.02	0.40	1.31	1.43
3/30/2007	2,232	130	17,342,640	211	0.23	27	0.03	38	0.04	40	0.04	0.34	1.54	1.77
6/15/2007	1,848	125	13,887,720	3,126	2.71	27	0.02	38	0.03	40	0.03	2.80	4.25	4.57
10/16/2007	2,952	128	22,627,080	455	0.64	27	0.04	38	0.05	40	0.06	0.79	4.89	5.36
12/14/2007	1,416	132	11,214,720	951	0.67	27	0.02	38	0.03	40	0.03	0.74	5.56	6.10
3/27/2008	2,496	128	19,094,400	503	0.60	27	0.03	38	0.05	40	0.05	0.72	6.15	6.83
6/2/2008	1,608	119	11,481,120	680	0.49	27	0.02	38	0.03	40	0.03	0.56	6.64	7.39
9/12/2008	2,448	132	19,388,160	883	1.07	27	0.03	38	0.05	40	0.05	1.20	7.71	8.58
11/26/2008	1,800	132	14,256,000	748	0.66	27	0.02	38	0.03	40	0.04	0.76	8.37	9.34
3/24/2009	2,832	132	22,429,440	34	0.05	27	0.04	38	0.05	40	0.06	0.19	8.42	9.54
6/15/2009	1,992	132	15,776,640	136	0.13	27	0.03	38	0.04	40	0.04	0.24	8.56	9.77
8/21/2009	1,608	132	12,735,360	95	0.08	27	0.02	38	0.03	40	0.03	0.16	8.63	9.93
11/5/2009	1,824	132	14,446,080	34	0.03	27	0.02	38	0.03	40	0.04	0.13	8.66	10.06
2/5/2010	2,208	132	17,487,360	82	0.09	27	0.03	38	0.04	40	0.04	0.20	8.75	10.26
4/23/2010	1,848	115	12,751,200	116	0.09	27	0.02	38	0.03	40	0.03	0.18	8.84	10.44
7/23/2010	2,184	115	15,069,600	34	0.03	27	0.03	38	0.04	40	0.04	0.13	8.87	10.57
10/13/2010	1,968	115	13,579,200	34	0.03	27	0.02	38	0.03	40	0.03	0.12	8.90	10.69
1/21/2011	2,400	132	19,008,000	34	0.04	27	0.03	38	0.05	40	0.05	0.16	8.94	10.85
5/11/2011	2,640	132	20,908,800	156	0.20	27	0.04	38	0.05	40	0.05	0.34	9.15	11.19
7/29/2011	1,896	115	13,082,400	34	0.03	27	0.02	38	0.03	40	0.03	0.11	9.18	11.31
10/25/2011	2,112	132	16,727,040	34	0.04	27	0.03	38	0.04	40	0.04	0.15	9.21	11.45
1/20/2012	2,088	132	16,536,960	55	0.06	27	0.03	38	0.04	40	0.04	0.17	9.27	11.62
6/15/2012	3,528	115	24,343,200	31	0.05	27	0.04	38	0.06	40	0.06	0.21	9.31	11.82
9/25/2012	2,448	132	19,388,160	7	0.01	27	0.03	256	0.31	40	0.05	0.40	9.32	12.22
12/31/2012	2,328	132	18,437,760	13	0.01	27	0.03	38	0.04	40	0.05	0.14	9.34	12.36
3/20/2013	1,896	132	15,016,320	82	0.08	27	0.03	38	0.04	40	0.04	0.17	9.41	12.53
TOTALS:	56,929		435,457,080		9.41		0.73		1.31		1.08	12.53		

B-4 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum. Total lbs. Removed (Est. from PID)
11/17/2006	672	132	5,322,240	0.1	1,483	0.49	0.49
12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.20
6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	4.18
10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	6.35
12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.38
3/29/2008	2,544	132	20,148,480	1.8	4,655	5.85	13.23
6/2/2008	1,560	132	12,355,200	0.3	1,856	1.43	14.66
9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.13
11/26/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.45
8/21/2009	6,432	115	44,380,800	0.0	1,296	3.59	22.04
11/6/2009	1,848	132	14,636,160	0.4	2,042	1.86	23.90
2/5/2010	2,184	132	17,297,280	0.6	2,416	2.61	26.51
4/23/2010	1,848	115	12,751,200	0.9	2,975	2.37	28.88
10/15/2010	4,200	115	28,980,000	0.5	2,229	4.03	32.91
1/21/2011	2,352	132	18,627,840	0.2	1,669	1.94	34.85
5/11/2011	2,640	132	20,908,800	0.1	1,483	1.93	36.78
7/29/2011	1,896	115	13,082,400	0.4	2,042	1.7	38.45
10/25/2011	2,112	132	16,727,040	0.5	2,229	2.3	40.77
1/20/2012	2,088	132	16,536,960	0.4	2,042	2.1	42.88
6/15/2012	3,528	115	24,343,200	0.2	1,669	2.5	45.41
9/25/2012	2,448	132	19,388,160	0.3	1,856	2.2	47.66
12/31/2012	2,328	132	18,437,760	0.1	1,483	1.7	49.36
3/20/2013	1,896	132	15,016,320	0.0	1,296	1.2	50.58
TOTALS:	56,232		427,095,360			50.58	

Lab Data for Air Mitigation System B-5
First Quarter 2013
4/9/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-5 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.5	130	3,900	883	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
3/28/2008	24	127	182,880	496	0.01	27	0.00	38	0.00	40	0.00	0.01	0.01	0.01
4/24/2008	648	120	4,665,600	367	0.11	27	0.01	38	0.01	40	0.01	0.14	0.11	0.14
5/1/2008	168	115	1,159,200	394	0.03	27	0.00	38	0.00	40	0.00	0.04	0.14	0.18
6/2/2008	768	114	5,253,120	401	0.13	27	0.01	38	0.01	40	0.01	0.17	0.27	0.35
7/10/2008	912	115	6,292,800	442	0.17	27	0.01	38	0.02	40	0.02	0.21	0.45	0.56
9/12/2008	1,536	114	10,506,240	469	0.31	27	0.02	38	0.03	40	0.03	0.38	0.75	0.94
11/26/2008	1,800	113	12,204,000	489	0.37	27	0.02	38	0.03	40	0.03	0.45	1.13	1.39
3/24/2009	2,832	122	20,730,240	1,427	1.85	27	0.03	38	0.05	40	0.05	1.98	2.97	3.37
6/15/2009	1,992	122	14,581,440	394	0.36	27	0.02	38	0.03	40	0.04	0.45	3.33	3.83
8/21/2009	1,608	122	11,770,560	428	0.31	27	0.02	38	0.03	40	0.03	0.39	3.64	4.22
11/5/2009	1,824	122	13,351,680	883	0.74	27	0.02	38	0.03	40	0.03	0.82	4.38	5.04
2/5/2010	2,208	110	14,572,800	150	0.14	26.93	0.02	38	0.03	40	0.04	0.23	4.52	5.27
4/23/2010	1,848	110	12,196,800	82	0.06	27	0.02	38	0.03	40	0.03	0.14	4.58	5.41
7/23/2010	2,184	110	14,414,400	183	0.16	27	0.02	38	0.03	40	0.04	0.26	4.74	5.67
10/15/2010	2,016	130	15,724,800	102	0.10	27	0.03	38	0.04	40	0.04	0.20	4.84	5.88
1/21/2011	2,352	110	15,523,200	224	0.22	27	0.03	38	0.04	40	0.04	0.32	5.06	6.19
5/11/2011	2,640	130	20,592,000	394	0.51	27	0.03	38	0.05	40	0.05	0.64	5.57	6.84
7/29/2011	1,896	110	12,513,600	150	0.12	27	0.02	38	0.03	40	0.03	0.20	5.68	7.03
10/25/2011	2,112	110	13,939,200	204	0.18	27	0.02	38	0.03	40	0.03	0.27	5.86	7.30
1/20/2012	2,088	110	13,780,800	150	0.13	6	0.01	38	0.03	40	0.03	0.20	5.99	7.50
6/15/2012	3,528	130	27,518,400	95	0.16	8	0.01	845	1.45	40	0.07	1.70	6.15	9.20
9/25/2012	2,448	110	16,156,800	122	0.12	6	0.01	384	0.39	40	0.04	0.56	6.28	9.76
12/31/2012	2,328	130	18,158,400	116	0.13	6	0.01	512	0.58	40	0.05	0.76	6.41	10.52
3/20/2013	1,896	110	12,513,600	408	0.32	18	0.01	38	0.03	40	0.03	0.39	6.72	10.91
TOTALS:	43,657		308,306,460		6.72		0.42		3.01		0.76	10.91		

B-5 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum. Total lbs Removed (Est from PID)
3/29/2008	50	110	330,000	0.1	1,483	0.03	0.03
6/2/2008	1,560	130	12,168,000	0.2	1,869	1.27	1.30
7/10/2008	912	110	6,019,200	0.7	2,602	0.98	2.27
9/12/2008	1,536	130	11,980,800	0.1	1,483	1.11	3.38
11/26/2008	1,800	130	14,040,000	0.1	1,483	1.30	4.68
8/21/2009	6,432	130	50,169,600	0.0	1,296	4.06	8.74
11/5/2009	1,824	130	14,227,200	0.2	1,869	1.48	10.22
2/5/2010	2,208	110	14,581,440	0.5	1,483	1.35	11.57
5/6/2010	2,160	110	14,256,000	1.4	3,908	3.48	15.04
10/15/2010	3,888	130	30,326,400	0.4	2,042	3.86	18.91
1/21/2011	2,352	110	15,523,200	0.4	2,042	1.98	20.88
5/11/2011	2,640	130	20,592,000	0.4	1,483	1.90	22.79
7/29/2011	1,896	110	12,513,600	0.4	2,042	1.6	24.38
10/25/2011	2,112	110	13,939,200	0.5	2,229	1.9	26.32
1/20/2012	2,088	110	13,780,800	0.4	2,042	1.8	28.08
6/15/2012	3,528	130	27,518,400	0.4	2,042	3.5	31.58
9/25/2012	2,448	110	16,156,800	0.5	2,229	2.2	33.83
12/31/2012	2,328	130	18,158,400	0.1	1,483	1.7	35.51
3/20/2013	1,896	110	12,513,600	0.1	1,483	1.2	36.67
TOTALS:	43,658		318,794,640			36.67	

Lab Data for Air Mitigation System B-6
First Quarter 2013
4/9/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-6 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.5	130	3.900	8.155	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
3/28/2008	24	119	171.144	3.330	0.04	27	0.00	38	0.00	40	0.00	0.04	0.04	0.04
4/24/2008	648	114	4.426.488	748	0.21	27	0.01	38	0.01	40	0.01	0.24	0.24	0.27
5/1/2008	168	123	1.234.800	1,427	0.11	27	0.00	38	0.00	40	0.00	0.12	0.35	0.39
6/2/2008	768	120	5.506.560	1,495	0.51	27	0.01	38	0.01	40	0.01	0.55	0.87	0.94
8/20/2008	1,896	120	13.651.200	1,835	1.56	27	0.02	38	0.03	40	0.03	1.65	2.43	2.59
9/12/2008	552	114	3.775.680	1,223	0.29	27	0.01	38	0.01	40	0.01	0.31	2.72	2.91
11/26/2008	1,800	112	12.096.000	748	0.56	27	0.02	38	0.03	40	0.03	0.64	3.28	3.55
3/24/2009	2,832	118	20.050.560	883	1.10	27	0.03	38	0.05	40	0.05	1.24	4.39	4.79
6/15/2009	1.992	118	14.103.360	571	0.50	27	0.02	38	0.03	40	0.03	0.59	4.89	5.38
8/21/2009	1.608	118	11.384.640	483	0.34	27	0.02	38	0.03	40	0.03	0.42	5.23	5.80
11/5/2009	1,824	118	12.913.920	748	0.60	27	0.02	38	0.03	40	0.03	0.69	5.83	6.49
2/5/2010	2.208	150	19.872.000	544	0.67	27	0.03	38	0.05	40	0.05	0.80	6.51	7.29
5/12/2010	2.304	93	12.856.320	883	0.71	26.93	0.02	38	0.03	40	0.03	0.79	7.22	8.08
7/23/2010	1.728	110	11.404.800	680	0.48	27	0.02	38	0.03	40	0.03	0.56	7.70	8.64
10/15/2010	2,016	130	15.724.800	129	0.13	27	0.03	38	0.04	40	0.04	0.23	7.83	8.87
1/21/2011	2.352	130	18.345.600	333	0.38	27	0.03	38	0.04	40	0.05	0.50	8.21	9.37
5/11/2011	2.640	130	20.592.000	415	0.53	27	0.03	38	0.05	40	0.05	0.67	8.74	10.04
7/29/2011	1,896	110	12.513.600	143	0.11	27	0.02	38	0.03	40	0.03	0.19	8.85	10.23
10/25/2011	2.112	110	13.939.200	170	0.15	27	0.02	38	0.03	40	0.03	0.24	8.89	10.47
1/20/2012	2.088	130	16.286.400	122	0.12	27	0.03	38	0.04	40	0.04	0.23	8.98	10.70
6/15/2012	3,528	130	27.518.400	75	0.13	27	0.05	359	0.62	40	0.07	0.86	9.02	11.56
9/25/2012	2,448	110	16.156.800	211	0.21	27	0.03	282	0.28	40	0.04	0.56	9.19	12.12
12/31/2012	2.328	130	18.158.400	163	0.18	27	0.03	359	0.41	40	0.05	0.67	9.20	12.79
3/20/2013	1,896	110	12.513.600	258	0.20	27	0.02	38	0.03	40	0.03	0.28	9.39	13.07
TOTALS:	43.657		315.200.172		9.85		0.53		1.91		0.78	13.07		

B-6 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum. Total lbs Removed (Est. from PID)
3/29/2008	50	74	222.000	1.7	4.468	0.06	0.06
6/2/2008	1.560	130	12.168.000	1.1	3.349	2.54	2.60
8/20/2008	1,896	110	12.513.600	0.5	2,229	1.74	4.34
9/12/2008	552	130	4.305.600	0.1	1,483	0.40	4.74
11/26/2008	1,800	110	11.880.000	0.2	1.669	1.24	5.98
8/21/2009	6.432	110	42.451.200	0.1	1.483	3.93	9.90
11/5/2009	1,824	130	14.227.200	0.1	1,483	1.32	11.22
2/5/2010	2,208	150	19.872.000	0.9	2,975	3.69	14.91
5/12/2010	2.304	93	12.856.320	1.7	4.468	3.58	18.49
10/15/2010	3.744	130	29.203.200	0.5	2.229	4.06	22.55
1/21/2011	2,352	130	18.345.600	0.4	2,042	2.34	24.89
5/11/2011	2.640	130	20.592.000	0.2	1,669	2.14	27.03
7/29/2011	1,896	110	12.513.600	0.3	1,856	1.45	28.48
10/25/2011	2.112	110	13.939.200	0.5	2,229	1.94	30.42
1/20/2012	2.088	130	16.286.400	0.4	2,042	2.07	32.50
6/15/2012	3.528	130	27.518.400	0.3	1,856	3.19	35.68
9/25/2012	2.448	110	16.156.800	0.5	2,229	2.25	37.93
12/31/2012	2.328	130	18.158.400	0.0	1,296	1.47	39.40
3/20/2013	1,896	110	12.513.600	0.0	1,296	1.01	40.41
TOTALS:	43.658		315,723.120			40.41	

Lab Data for Air Mitigation System B-7
First Quarter 2013
4/9/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-7 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
4/7/2008	0.5	118	3,540	516	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/8/2008	24	118	169,920	319	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/24/2008	384	118	2,718,720	150	0.03	27	0.00	38	0.01	40	0.01	0.04	0.03	0.06
5/1/2008	168	120	1,209,600	265	0.02	27	0.00	38	0.00	40	0.00	0.03	0.05	0.08
6/2/2008	768	117	5,391,360	360	0.12	27	0.01	38	0.01	40	0.01	0.16	0.17	0.23
7/10/2008	912	118	6,456,960	367	0.15	27	0.01	38	0.02	40	0.02	0.19	0.32	0.42
9/12/2008	1,536	114	10,506,240	367	0.24	27	0.02	38	0.03	40	0.03	0.31	0.56	0.73
11/26/2008	1,800	112	12,096,000	381	0.29	27	0.02	38	0.03	40	0.03	0.37	0.85	1.10
3/24/2009	2,832	118	20,050,560	401	0.50	27	0.03	38	0.05	40	0.05	0.63	1.35	1.73
6/15/2009	1,992	118	14,103,360	34	0.03	27	0.02	38	0.03	40	0.03	0.12	1.38	1.85
8/21/2009	1,608	118	11,384,640	34	0.02	27	0.02	38	0.03	40	0.03	0.10	1.40	1.95
11/5/2009	1,824	118	12,913,920	34	0.03	27	0.02	38	0.03	40	0.03	0.11	1.43	2.06
2/5/2010	2,208	110	14,572,800	34	0.03	27	0.02	38	0.03	40	0.04	0.13	1.46	2.19
4/23/2010	1,848	130	14,414,400	34	0.03	27	0.02	38	0.03	40	0.04	0.13	1.49	2.32
7/23/2010	2,184	130	17,035,200	34	0.04	27	0.03	38	0.04	40	0.04	0.15	1.53	2.46
10/15/2010	2,016	130	15,724,800	34	0.03	27	0.03	38	0.04	40	0.04	0.14	1.56	2.60
1/21/2011	2,352	130	18,345,600	34	0.04	27	0.03	38	0.04	40	0.05	0.16	1.60	2.76
5/11/2011	2,640	130	20,592,000	34	0.04	27	0.03	38	0.05	40	0.05	0.18	1.64	2.94
7/29/2011	1,896	130	14,788,800	34	0.03	27	0.02	38	0.04	40	0.04	0.13	1.67	3.07
10/25/2011	2,112	130	16,473,600	34	0.03	27	0.03	38	0.04	40	0.04	0.14	1.71	3.21
1/20/2012	2,088	130	16,286,400	20	0.02	27	0.03	38	0.04	40	0.04	0.13	1.73	3.34
6/15/2012	3,528	130	27,518,400	17	0.03	27	0.05	307	0.53	135	0.23	0.83	1.76	4.17
9/25/2012	2,448	130	19,094,400	34	0.04	27	0.03	38	0.05	40	0.05	0.17	1.80	4.34
12/31/2012	2,328	130	18,158,400	34	0.04	27	0.03	384	0.44	40	0.05	0.55	1.84	4.88
3/20/2013	1,896	130	14,788,800	34	0.03	27	0.02	38	0.04	40	0.04	0.13	1.87	5.01
TOTALS:	43,393		324,798,420		1.87		0.55		1.63		0.97	5.01		

B-7 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum. Total lbs Removed (Est from PID)
6/2/2008	1,344	130	10,483,200	0.3	1,856	1.21	1.21
7/10/2008	912	110	6,019,200	0.5	2,229	0.84	2.05
9/12/2008	1,536	130	11,980,800	0.1	1,483	1.11	3.16
11/26/2008	1,800	110	11,880,000	0.2	1,669	1.24	4.40
8/21/2009	6,432	132	50,941,440	0.1	1,483	4.71	9.11
11/5/2009	1,824	130	14,227,200	0.0	1,296	1.15	10.26
2/5/2010	2,208	110	14,572,800	0.1	1,483	1.35	11.60
5/6/2010	2,160	130	16,848,000	0.0	1,296	1.36	12.97
10/15/2010	3,888	130	30,326,400	0.1	1,483	2.80	15.77
1/21/2011	2,352	130	18,345,600	0.1	1,483	1.70	17.47
5/11/2011	2,640	130	20,592,000	0.0	1,296	1.66	19.13
7/29/2011	1,896	130	14,788,800	0.3	1,856	1.71	20.84
10/25/2011	2,112	130	16,473,600	0.1	1,483	1.52	22.37
1/20/2012	2,088	130	16,286,400	0.1	1,483	1.51	23.87
6/15/2012	3,528	130	27,518,400	0.0	1,296	2.22	26.10
9/2/2012	1,896	130	14,788,800	0.1	1,483	1.37	27.47
12/31/2012	2,880	130	22,464,000	0.0	1,296	1.82	29.28
3/20/2013	1,896	130	14,788,800	0.0	1,296	1.20	30.48
TOTALS:	43,392		333,325,440			30.48	