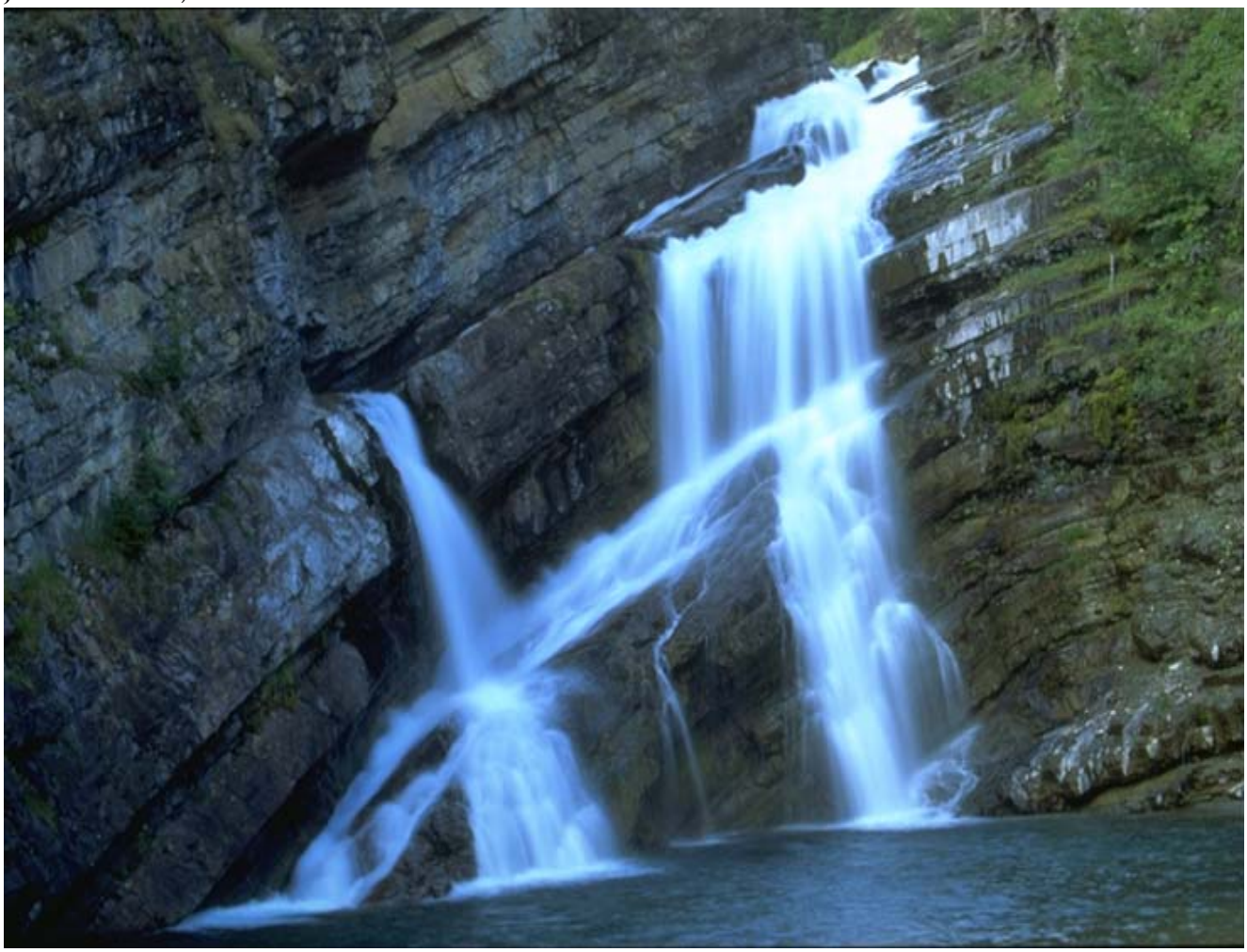
QUARTERLY MONITORING PROGRESS REPORT, 4TH QUARTER, 2012

MICHIGAN PLAZA
3801-3823 WEST MICHIGAN STREET
INDIANAPOLIS, INDIANA 46222
IDEM INCIDENT NO.: 0000198
IDEM VRP NO.: 6061202
MUNDELL PROJECT NO.: M01046
JANUARY 31, 2013



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January 31, 2013

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

Re: **Quarterly Monitoring Progress Report – 4th Quarter 2012**
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 October 1 and December 31, 2012. 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 November 13 and November 21, 2012, 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 four (4) 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 (4)*:

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

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the above-listed monitoring well network on November 11, 2012. Additional wells gauged during this sampling event consist of:

Maple Creek Village monitoring wells:

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

ENVIRON monitoring wells:

MW-166S, MW-166D, MW-167S, MW-168S, 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.

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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 ENVIRON monitoring well MW-174S, MW-175S, U.S. EPA monitoring well MW-WES-01a MW-WES-05a, and deep zone ENVIRON well MW-174D and MW-175D did not conform to the relative changes in water levels from Q3/2012 readings in nearby monitor wells.

Previously, MUNDELL has contacted ENVIRON personnel to request access to their MW-174 well set to complete an independent re-survey, in order to verify that the top of casing (TOC) elevations were accurate. The resurvey of the ground surface completed in November 2012, along with previous measurements of offset between TOC and ground surface (conducted with ENVIRON personnel present) determined the ENVIRON TOC elevations appear to be accurate.

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 elevation from MW-174S is 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 levels in the monitor wells mentioned above are 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.** 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.

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-02.

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.

Cis-1,2 DCE

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

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-9S, MMW-10S and MMW-12S.

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

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, MMW-10S, and MMW-12S.

Michigan Plaza and Vicinity:

MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, and MMW-P-12S.

Floral Park Cemetery:

MMW-C-01, MMW-C-11S, and MMW-C-13S.

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

Michigan Plaza and Vicinity:

MMW-P-10S.

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, and MMW-P-13D.

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-11D.

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 this quarter**.** 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, MMW-13D and MMW-15D, 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 CAP18™ 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 ME™ 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 revised injection plan that adds a few more injection locations. Currently, MUNDELL is awaiting IDEM's review and approval of investigation results, and desires to proceed with the third CAP 18 ME™ injection event at the Site as soon as possible.

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-southwest of the strip mall property in the shallow zone. PCE was detected above the RDCL in MMW-P-02 and MMW-C-01. PCE was not detected above the laboratory reporting limit in indicator wells MMW-P-03S, MW-P-03D, and MMW-P-04 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-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 decreased in MMW-P-02, MMW-P-03S, MMW-P-11S, MMW-P-11DR, and MMW-C-01. It was not detected in shallow well MMW-P-04 or deep well MMW-P-03D.

VC

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

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), decreasing trends are noted between the third and fourth quarter 2012.

Generation of both cis-1,2-DCE and vinyl chloride as byproducts of PCE reductive dechlorination appears to have slowed near ***Source Area A*** over the last several quarters. Also, the expanding footprint of PCE in the area appears to confirm that the reductive dechlorination processes are waning in the area 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 increased slightly and remain 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. Elevated cis-1,2-DCE levels in exceedance of the RISC RDCL are identified in the MMW-P-12S/D well pair. Levels increased in MMW-P-01 and continue to exceed the RISC IDCL. Cis-1,2-DCE levels increased in MMW-P-07 and decreased in MMW-8S and MMW-P-08, at levels below the RISC RDCL.

VC

Elevated VC levels in exceedance of the RISC IDCL are identified in each indicator well. Increasing trends are noted in MMW-P-01, MMW-P-07, MMW-P-10D, MMW-P-12S, and MMW-P-12D. Decreasing trends are noted in MMW-8S, MMW-P-05, MMW-P-06, MMW-P-08, and MMW-P-10S.

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). However, there are some areas where stagnation now appears to be occurring (*e.g.,* in MMW-P-01, MMW-P-05, MMW-P-06, AND MMW-P-10D).

2.3.3 Source Area C

PCE

PCE concentration increased noticeably in indicator well MMW-1S and remains above the IDCL. PCE levels in MMW-9S and MMW-10S increased and are above the RDCL.

TCE

The TCE concentration at MMW-1S remained in exceedance of the RISC RDCL. Additionally, the TCE footprint has rebounded since the third quarter 2012 sampling event and now encompasses MMW-9S and MMW-10S at levels above the RDCL.

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, reversing a declining trend that has been observed over the past several quarters. It was 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 increased and remain above the IDCL, but decreased to levels below the reporting limit at MMW-1S.

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, rates of ethene generation are slowing. 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 during 2011 and 2012 indicate the need for a third CAP18 ME™ injection event. This booster injection event has previously been approved by IDEM. However, a modified injection plan has been submitted under separate cover for IDEM review and is currently awaiting approval.

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*** have previously been approved by IDEM. In May 2012, MUNDELL submitted a revised injection plan that adds a few more injection locations and is currently waiting for IDEM approval to proceed. After approval by IDEM, MUNDELL will proceed with the third CAP 18 ME™ injection event at the Site.

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

2.4 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 (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 8**.

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 9** through **17.**

As of the end of the 4th quarter of 2012, approximately 27.40 *pounds* of total chlorinated solvents, including *17.18 pounds* of PCE, have been removed at the *Maple Creek Village Apartments property* (subfloor depressurization systems B5, B6 and B7); and approximately *114.23 pounds* of total chlorinated solvents, including *99.58 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 B.** 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, although PCE concentrations in B1 (Unit 3801), B2 (Unit 3811), and B3 (Unit 3819) have steadily increased since January 2012. PCE concentrations in mitigation system B4 has 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. Given the data reported above, MUNDELL recommends that the previously proposed CAP18 injections proceed as soon as possible. MUNDELL is concerned that further delay of this third injection event will prolong the time to complete cleanup.

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 be used to support the setting of target cleanup goals for the deeper portion of the surficial aquifer at the Michigan Plaza site.

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; breting@mundellassociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.

Matthew Bono
Staff Environmental Scientist

Mark E. Breting, L.P.G.
Senior Project Geologist

John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

Attachments: Tables
Figures
Appendices

cc: Mr. Peter Cappel, AMMH

TABLES

Table 1 Groundwater Level Measurements

Table 2 Monitoring Well Groundwater Analytical Results – 4th Quarter 2012

Table 3 Cumulative Monitoring Well Groundwater Analytical Results

Table 4 Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation

Table 1
Tabulated Water Level Measurements and Monitoring Well Construction Data
Quarter 4 - 2012
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	11/12/2012	715.26	28	18.00	-	28.00	19.04	696.22
MMW-P-02	11/12/2012	716.09	30	20.00	-	30.00	20.11	695.98
MMW-P-03S	11/12/2012	715.95	28	18.00	-	28.00	19.98	695.97
MMW-P-04	11/12/2012	716.04	28	18.00	-	28.00	19.86	696.18
MMW-P-05	11/12/2012	715.55	28	18.00	-	28.00	19.41	696.14
MMW-P-06	11/12/2012	716.14	28	18.00	-	28.00	20.02	696.12
MMW-P-07	11/12/2012	714.90	28	18.00	-	28.00	18.31	696.59
MMW-P-08	11/12/2012	714.53	28	18.00	-	28.00	17.93	696.60
MMW-P-09S	11/12/2012	714.80	28	18.00	-	28.00	19.90	694.90
MMW-P-10S	11/12/2012	714.35	28	18.00	-	28.00	17.48	696.87
MMW-P-12S	11/12/2012	715.83	26	16.00	-	26.00	18.71	697.12
Deep Wells								
MMW-P-03D	11/12/2012	716.02	35	25.00	-	35.00	19.99	696.03
MMW-P-09D	11/12/2012	714.82	45	35.00	-	45.00	19.83	694.99
MMW-P-10D	11/12/2012	714.42	38	28.00	-	38.00	17.86	696.56
MMW-P-12D	11/12/2012	715.33	36.5	31.50	-	36.50	18.11	697.22
Monitoring Wells (Apartments)								
Shallow Wells								
MMW-1S	11/12/2012	712.92	20	10.00	-	20.00	15.91	697.01
MMW-2S	11/12/2012	712.95	20	10.00	-	20.00	NG	NG
MMW-3S	11/12/2012	710.20	30	18.00	-	28.00	11.71	698.49
MMW-7S	11/12/2012	712.09	26	12.00	-	22.00	13.63	698.46
MMW-8S	11/12/2012	714.24	24	14.00	-	24.00	16.92	697.32
MMW-9S	11/12/2012	713.71	25	15.00	-	25.00	16.79	696.92
MMW-10S	11/12/2012	712.69	25	15.00	-	25.00	15.78	696.91
MMW-11S	11/12/2012	713.17	24	14.00	-	24.00	16.04	697.13
MMW-12S	11/12/2012	712.15	24	14.00	-	24.00	15.06	697.09
MMW-15S	11/12/2012	713.36	32	22.00		32.00	15.93	697.43
Deep Wells								
MMW-4D	11/12/2012	711.29	66	56.00	-	66.00	13.43	697.86
MMW-5D	11/12/2012	711.27	51	36.00	-	41.00	12.84	698.43
MMW-6D	11/12/2012	712.40	51	39.00	-	49.00	14.05	698.35
MMW-11D	11/12/2012	713.33	33	23.00	-	33.00	15.87	697.46
MMW-13D	11/12/2012	713.28	50	35.00	-	50.00	15.88	697.40
MMW-14D	11/12/2012	712.41	50	40.00	-	50.00	14.75	697.66
MMW-15D	11/12/2012	713.08	39	34.00		39.00	15.65	697.43
Floral Park Cemetery Monitoring Wells (Off-Site)								
Shallow Wells								
MMW-C-01	11/12/2012	715.73	28	18.00	-	28.00	19.71	696.02
MMW-C-02S	11/12/2012	714.80	28	18.00	-	28.00	19.21	695.59
MMW-C-16S	11/12/2012	717.32					21.65	695.67
MMW-P-11S	11/12/2012	716.42	26	16.00	-	26.00	20.51	695.91
MMW-P-13S	11/12/2012	713.83	26	16.00	-	26.00	17.94	695.89
MMW-P-14S	11/12/2012	714.50	28	18.00		28.00	18.93	695.57
Deep Wells								
MMW-C-02D	11/12/2012	713.90	36	31.00		36.00	18.42	695.48
MMW-C-16D	11/12/2012	717.27					21.64	695.63
MMW-C-17D	11/12/2012	714.57					20.43	694.14
MMW-P-11DR	11/12/2012	715.63	33	28.00		33.00	19.73	695.90
MMW-P-13D	11/12/2012	713.57	33	28.00		33.00	17.70	695.87
MMW-P-14D	11/12/2012	714.76	34	29.00		34.00	19.19	695.57

Table 1
Tabulated Water Level Measurements and Monitoring Well Construction Data
Quarter 4 - 2012
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	11/12/2012	712.70	20	10.00		20.00	14.89	697.81
MW-167S	11/12/2012	716.07	22	12.00	-	22.00	18.70	697.37
MW-168S	11/12/2012	714.58	22	12.00	-	22.00	17.61	696.97
MW-169S	11/12/2012	715.92	25	15.00	-	25.00	20.40	695.52
MW-170S	11/12/2012	717.14	27	17.00	-	27.00	21.08	696.06
MW-171S	11/12/2012	711.58	22	12.00	-	22.00	15.59	695.99
MW-174S	11/12/2012	717.78	24	14.00		24.00	20.80	696.98
MW-175S	11/12/2012	718.66	25	15.00		25.00	21.33	697.33
Deep Wells								
MW-166D	11/12/2012	712.49	51	46.00		51.00	14.64	697.85
MW-167D	11/12/2012	715.61	33	28.00	-	33.00	18.27	697.34
MW-168D	11/12/2012	714.46	31	26.00	-	31.00	17.45	697.01
MW-169D	11/12/2012	715.69	37	32.00	-	37.00	20.19	695.50
MW-170D	11/12/2012	717.07	39	34.00	-	39.00	21.01	696.06
MW-171D	11/12/2012	711.62	49	44.00	-	49.00	16.11	695.51
MW-174D	11/12/2012	717.72	48	43.00		48.00	20.74	696.98
MW-175D	11/12/2012	718.75	41	37.00		42.00	21.46	697.29
U.S. EPA Monitoring Wells (Off-Site)								
Shallow Wells								
MW-WES-01a	11/12/2012	716.30	37.5	32.5		37.5	13.79	702.51
MW-WES-02a	11/12/2012	716.60	29	24		29	19.75	696.85
MW-WES-03a	11/12/2012	717.68	35	30		35	22.09	695.59
MW-WES-04a	11/12/2012	718.14	35	30		35	21.03	697.11
MW-WES-05a	11/12/2012	717.19	25	20		25	18.75	698.44
Intermediate/Deep Wells								
MW-WES-01b	11/12/2012	716.31	46	41		46	20.16	696.15
MW-WES-01c	11/12/2012	716.28	55	50		55	20.15	696.13
MW-WES-02b	11/12/2012	716.60	40	35		40	20.17	696.43
MW-WES-02c	11/12/2012	716.69	50	45		50	20.07	696.62
MW-WES-03b	11/12/2012	717.70	45	40		45	22.25	695.45
MW-WES-04b	11/12/2012	718.14	45	40		45	20.99	697.15
MW-WES-05b	11/12/2012	716.97	37.5	32.5		37.5	19.39	697.58
MW-WES-05c	11/12/2012	716.49	50	45		50	19.81	696.68
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	7/30/2012	701.78					0.26	698.04
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 4 - 2012
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 Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Default Residential Cleanup Level		**5**	**5**	**70**	**100**	**80**	**2**
Monitoring Wells (Apts)							
Shallow Wells							
MMW-1S	11/15/2012	**413**	**20.0**	5.1	<5.0	<5.0	<2.0
MMW-2S	NS	NS	NS	NS	NS	NS	NS
MMW-3S	NS	NS	NS	NS	NS	NS	NS
MMW-7S	NS	NS	NS	NS	NS	NS	NS
MMW-8S	11/15/2012	**6.8**	<5.0	10.0	<5.0	<5.0	**127**
MMW-9S	11/14/2012	**9.8**	**5.0**	**2,000**	58.0	<5.0	**893**
MMW-10S	11/15/2012	**23.0**	**21.7**	**309**	13.2	<5.0	**286**
MMW-11S	11/13/2012	<5.0	<5.0	27.6	<5.0	<5.0	<2.0
MMW-12S	11/13/2012	<5.0	<5.0	**84.3**	<5.0	<5.0	**5.3**
MMW-15S	11/21/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-4D	11/13/2012	<5.0	<5.0	**463**	<5.0	<5.0	**164**
MMW-5D	NS	NS	NS	NS	NS	NS	NS
MMW-6D	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**57.5**
MMW-11D	11/13/2012	<5.0	<5.0	**309**	14.6	<5.0	**2.9**
MMW-13D	11/13/2012	<5.0	<5.0	**765**	<5.0	<5.0	**135**
MMW-14D	11/13/2012	<5.0	<5.0	**1010**	10.0	<5.0	**105**
MMW-15D	11/21/2012	<5.0	<5.0	10.6	<5.0	<5.0	<2.0

Table 2

Monitoring Well Groundwater Analytical Results
Quarter 4 - 2012
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 Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Default Residential Cleanup Level		**5**	**5**	**70**	**100**	**80**	**2**
Monitoring Wells (Plaza)							
Shallow Wells							
MMW-P-01	11/14/2012	**24.5**	**13.1**	**619**	14.1	<5.0	**3,060**
MMW-P-02	11/14/2012	**6.7**	<5.0	54.0	<5.0	<5.0	**803**
MMW-P-03S	11/14/2012	<5.0	<5.0	12.3	<5.0	<5.0	**113**
MMW-P-04	11/21/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-05	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**151**
MMW-P-06	11/14/2012	<50.0	<50.0	**4,640**	<50.0	<50.0	**6,170**
MMW-P-07	11/14/2012	<5.0	<5.0	42.2	<5.0	<5.0	**607**
MMW-P-08	11/14/2012	<5.0	<5.0	18.4	<5.0	<5.0	**436**
MMW-P-09S	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10S	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**2.3**
MMW-P-12S	11/19/2012	<5.0	<5.0	**763**	15.8	<5.0	**76.1**
Deep Wells							
MMW-P-03D	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**17.3**
MMW-P-09D	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**61.6**
MMW-P-10D	11/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**964**
MMW-P-12D	11/19/2012	<5.0	<5.0	**793**	17.4	<5.0	**91.8**

Table 2
Monitoring Well Groundwater Analytical Results
Quarter 4 - 2012
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 Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Default Residential Cleanup Level		**5**	**5**	**70**	**100**	**80**	**2**
Floral Park Monitoring Wells (Off-site)							
Shallow Wells							
MMW-C-01	11/15/2012	**24.6**	<5.0	10.9	<5.0	<5.0	**26.7**
MMW-C-02S	11/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-16S	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-11S	11/15/2012	**538**	<5.0	6.5	<5.0	<5.0	**18.7**
MMW-P-13S	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**3.6**
MMW-P-14S	11/20/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-C-02D	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**125**
MMW-C-16D	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**349**
MMW-C-17D	11/20/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-11DR	11/15/2012	<5.0	<5.0	10.4	<5.0	<5.0	**117**
MMW-P-13D	11/19/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**154**
MMW-P-14D	11/20/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**58.3**

Table 2

Monitoring Well Groundwater Analytical Results
Quarter 4 - 2012
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 Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Default Residential Cleanup Level		**5**	**5**	**70**	**100**	**80**	**2**
Keramida/ENVIRON Monitoring Wells (Off-Site)							
Shallow Wells							
MW-167S	NS	NS	NS	NS	NS	NS	NS
MW-168S	NS	NS	NS	NS	NS	NS	NS
MW-169S	NS	NS	NS	NS	NS	NS	NS
MW-170S	11/16/2012	<5.0	<5.0	6.1	<5.0	<5.0	<2.0
MW-171S	NS	NS	NS	NS	NS	NS	NS
Deep Wells							
MW-167D	11/16/2012	<5.0	<5.0	**480**	19.9	<5.0	**9.2**
MW-168D	11/16/2012	<5.0	<5.0	6.9	<5.0	<5.0	**81.3**
MW-169D	NS	NS	NS	NS	NS	NS	NS
MW-170D	11/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**62.8**
MW-171D	NS	NS	NS	NS	NS	NS	NS

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 4 - 2012
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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		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
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 4 - 2012
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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		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
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	2000	58.0	<5.0	893

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Quarter 4 - 2012
Michigan Plaza
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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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		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
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
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

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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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		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
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
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
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

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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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		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
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
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
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

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 4 - 2012
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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
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
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

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
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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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
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
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

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
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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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
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
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

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
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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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
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
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

Table 3
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Quarter 4 - 2012
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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
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
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
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

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 4 - 2012
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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
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
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
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
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

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 4 - 2012
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 - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
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
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
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
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
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

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Quarter 4 - 2012
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 - 2006		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Residential Default Cleanup Level - 2006		**5**	**5**	**70**	**100**	**80**	**2**
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**
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**
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**
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
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

Table 3
Cumulative Monitoring Well Groundwater Analytical Results
Quarter 4 - 2012
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 - 2006		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Residential Default Cleanup Level - 2006		**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**
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**
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
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**
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**
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
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**
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**
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**

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).

*MMW-C-02 is now known as MMW-C-02S and MMW-C-02D is a new well.

Table 4

Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 4 - 2012
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	484	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	-28	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	730	-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	170	-60	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	0.064	<0.15	0.029	0.280	13,000
	2/14/2012	6.78	2,024	71	1066.0	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	6.62	341	30	1198.0	19.9	<0.40	0.0	2.6	51.0	0.042 J	<0.050	<0.050	0.910	<0.15	0.14	<0.070	<0.050	<0.15	0.011J	2.5	9,000
	8/2/2012	6.73	113	9	1054.0	<0.10		0.2	2.3	122	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
*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	505		2673.1																	
	4/20/2010	7.21	454	75	932.6																	
	5/4/2011	7.17	587	-228	892.3																	
	4/23/2012	7.15	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	595	-71	1117.0																	
	4/23/2012	7.15	242	-110	1290.0																	
	7/31/2012	7.06	181	-90	1530.0																	
	11/13/2012	6.87	625	-96	1693.0																	
*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																	
*MMW-7S	6/6/2008	6.38	441		3119.3																	
	4/20/2010	6.84	637	200	1013.2																	
	5/4/2011	6.85	1,321	-205	1080.1																	
	4/26/2012	7.14	36	-114	632.9																	
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		3385.2																	
	11/20/2008	7.05	487	515	2761.4																	
	3/16/2009	6.58	2,188	698	2647.0																	
	8/5/2009	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	-90	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
	8/2/2012	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

Table 4

Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 4 - 2012
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-9S	9/20/2007	7.70	3,000	260	1500.0																	
	12/12/2007		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
	9/11/2008					<0.10				152												
	11/20/2008	6.49	419	558	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				237												
	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	434	-187	1835.3	<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	48.0	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	22.0	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
	8/2/2012	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
MMW-10S	9/19/2007	7.40	1,900	260	1400.0																	
	12/12/2007		6,000	250	1300.0																	
	3/21/2008		109		5514.0																	
	6/6/2008	6.70	230		1604.6																	
	9/10/2008	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	1683.6																	
	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	513	-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	238	-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
MMW-11S	9/19/2007	7.60	2,300	220	880.0																	
	12/13/2007			390	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	782	518	2954.9	<0.10				138												
	3/16/2009	6.57	2,540	738	2887.2	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																	

Table 4

Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 4 - 2012
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-11D	3/16/2009	6.61	2,969	715	2745.4																	
	8/5/2009	7.06	2,358	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	960.9																	
	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																	
MMW-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																	
MMW-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																	
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	850	780	2190.7																	
	8/5/2009	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	231	111	750.8																	
	7/20/2010	7.13	4,430	-55	803.6																	
	10/12/2010	7.13	221	-224	820.2																	
	1/18/2011	6.67	247		812.7																	
	4/30/2011	7.16	397	-150	738.4																	
	7/26/2011	6.96	262	-183	827.0																	
	10/19/2011	6.78	240	-50	844.7																	
	2/14/2012	7.16	793	-62	815.2																	
	4/23/2012	7.24	437	-93	8.0																	
	7/31/2012	6.74	536	-41	851.8																	
	11/13/2012	6.25	228	-38	960.7																	

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Quarter 4 - 2012
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3801-3823 West Michigan Street
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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-15S	2/15/2012	7.09	426	38	935.4																	
	4/26/2012	7.33	126	-13	804.3																	
	8/6/2012	7.02	167	119	878.8																	
	11/21/2012	6.96	395	105	859.0																	
MMW-15D	2/15/2012	7.33	422	-94	998.1																	
	4/26/2012	7.00	1,384	-6	920.5																	
	8/6/2012	7.39	59	-135	702.0																	
	11/21/2012	7.39	233	-149	649.0																	
MMW-P-01	3/20/2008		21		5619.1																	
	6/7/2008		1,252		0.4																	
	11/19/2008	6.72	221																			
	3/17/2009	6.79	929	468	3419.4																	
	11/3/2009	6.74	1,774	-48	1824.2																	
	2/4/2010	6.87	697	-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	203	-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	285	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	628	-161	1508.8	<0.10	<0.10	3.2	3.4	145	<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	120	-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	0.088	<0.15	0.72	1,600	12,000
	2/13/2012	6.77	89	-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	0.65	1,700	14,000
	4/25/2012	6.71	49	-205	1698.0	<0.10	<0.10	4.25	3.3	80.0	0.044 J	<0.050	<0.050	<0.050	<0.15	0.086 J	<0.070	<0.050	<0.15	0.6	1,300	13,000
	8/2/2012	6.74	56	-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	277	-103	1869.0	<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
MMW-P-02	3/20/2008		155		4637.4																	
	6/7/2008		1,180		4112.8																	
	9/11/2008	6.88	101		0.3																	
	11/19/2008	6.85	574																			
	3/17/2009	6.70	852	858	3641.0																	
	11/3/2009	6.97	2,066	98	1006.2																	
	2/4/2010	6.82	693	272	1324.1																	
	4/22/2010	6.99	148	256	1346.3																	
	7/21/2010	6.92	1,806	-10	1121.8																	
	10/13/2010	6.92	281	-209	1089.7																	
	1/19/2011	6.74	1,617		1256.8																	
	5/4/2011	6.92	321	-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	322	-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	210	-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	1055	-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	75	-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	-74	-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	145	-132	1579.0	<0.10	<0.10	2.75	2.9	144	<0.070	<0.050	0.67J	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.20	570	12,000
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	127			<0.10				43.8												
	3/17/2009	6.66	812	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	751	-63	1303.5	<0.10				38.4										0.63	11.0	18,000
	4/22/2010	6.92	170	-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	270	-274	1333.0	<0.10				21.4												
	1/19/2011	6.77	1,417		905.3																	
	5/4/2011	6.83	234	-287	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	410	21,000
	7/27/2011	6.75	412	-175	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	190	-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	930	17,000
	2/13/2012	6.83	171	-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	170	14,000
	4/25/2012	6.85	89	-226	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	670	14,000
	8/1/2012	6.87	79	-133	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	174	-177	729.6	<0.10	<0.10	2.2	1.9	32.0	0.042J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.74	240	12,000

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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-03D	3/20/2008		56		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	806	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	1406.3	<0.10				<5.0										2.2	4.8	17,000
	2/4/2010	6.67	661	64	1360.5	<0.10				<5.0										2.7	8.3	25,000
	4/22/2010	6.88	143	-16	1143.8	<0.10				<5.0												
	7/21/2010	6.81	2,235	-125	1084.8	<0.10				6.8												
	10/13/2010	6.73	269	-246	1358.0	<0.10				<5.0												
	1/19/2011	6.28	2,351		1149.7	<0.10				25.8	0.60	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.82	267	-294	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	110	14,000
	7/27/2011	6.81	367	-192	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	150	-150	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	200	-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	51	-229	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	35	-159	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	157	-189	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	820	20,000
MMW-P-04	3/20/2008		233		0.3																	
	6/5/2008	6.87			1416.9																	
	9/11/2008	7.03			0.5																	
	11/19/2008	6.96	811																			
	2/12/2010	6.89	1,005	199	827.4																	
	4/21/2010	6.95	237	-47	808.1																	
	7/22/2010	6.74	3,591	-40	964.2																	
	10/13/2010	6.68	869	-203	1025.3																	
	5/5/2011	7.07	1,389	-185	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	-174	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	570	18,000
	10/24/2011	6.87	520	-150	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	990	-200	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	994	-202	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	973	-227	726.5			3.1														
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	870	3,652																		
	3/17/2009	6.61	864	838	2669.5																	
	11/3/2009	6.98	1,842	-70	1036.9																	
	2/4/2010	6.98	724	-83	787.2																	
	4/22/2010	6.99	1,663	-26	1003.1																	
	7/21/2010	6.88	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	230	-120	559.7															0.12	93.0	3,700
	2/13/2012	6.99	112	-286	822.8	<0.10	<0.10	1.9	19.0	59.5	4.2	0.066	<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
	8/2/2012	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

Table 4

Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 4 - 2012
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-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	715			<0.10				130												
	3/17/2009	6.69	1,063	710	3884.4	<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	725	-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	1,062		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	225	-296	1338.1															0.51	2,400	17,000
	7/28/2011	6.85	812	-198	1302.6															0.92	3,700	20,000
	10/24/2011	6.92	160	-90	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	71	-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
	8/2/2012	6.85	74	-96	1283.0	<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
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	110	-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	-96	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
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	876	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	320	8,000
	2/4/2010	6.63	631	-86	1629.4					<5.0										0.075	640	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	395	-175	1923.7	<0.10				<5.0												
	1/20/2011	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	430	6,800
	7/27/2011	6.54	597	-146	2323.7	<0.10	<0.10	3.8	3.0	185	0.096	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.050	<0.15	0.098	500	8,400
	10/24/2011	6.68	110	-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	210	3,200
	2/13/2012	6.68	81	-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	220	8,000
	4/25/2012	6.62	27	-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	170	12,000
	8/2/2012	6.69	19	-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	390	9,200
	11/14/2012	6.61	127	-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	230	7,000

Table 4

Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 4 - 2012
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-09S	3/20/2008	2.49	230		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	200		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	810.2	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	760	160	850.9																	
	2/15/2012	6.95	2,621	164	786.3																	
	4/24/2012	7.08	1,364	30	708.7																	
	8/1/2012	6.94	537	88	866.6																	
	11/13/2012	6.93	803	196	678.9																	
MMW-P-09D	3/20/2008	1.40	107		8894.3																	
	6/7/2008		443		3784.4																	
	11/19/2008	6.85	1,106		NS																	
	3/17/2009	6.57	819	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	694	-282	903.0																	
	1/19/2011	6.12	1,079		788.7																	
	4/30/2011	7.17	347	-184	851.5																	
	7/26/2011	6.98	567	-198	919.1																	
	10/21/2011	7.17	200	-90	855.0																	
	2/15/2012	7.15	283	-103	830.4																	
	4/24/2012	7.24	254	-128	879.9																	
	8/1/2012	7.16	318	-95	920.5																	
	11/13/2012	7.13	170	-102	861.4																	
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	1663.5	<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	1,868	-105	900.8	<0.10				<5.0												
	10/14/2010	6.63	404	-154	1681.7	<0.10				85.8												
	1/20/2011	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	-341	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

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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-10D	6/7/2008	1.71	1,134		4183.6																	
	3/17/2009	6.64	838	574	2733.7																	
	11/3/2009	6.80	1,699	-98	1104.1																	
	2/4/2010	6.78	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																	
	1/20/2011	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
MWW-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
	2/15/2012	6.96	578	-58	913.2	0.60	<0.10	1.7	1.9	132	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	203	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	189	0.017 J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.22	5.6	960
	11/15/2012	6.77	315	-27	1154.0	<0.10	<0.10	1.2	1.8	148	0.046J	<0.050	<0.050	<0.050	<0.15	0.035J	<0.070	<0.050	<0.15	0.18	3.8	5,200
MMW-P-11DR	2/15/2012	7.02	134	-104	1244.0	<0.10	<0.10	3.8	2.0	275	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	1269.0	<0.10	<0.10		1.9	275	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	219	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	147	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.2	19	6,200
MMW-P-12S	10/24/2011	7.05	240	-80	1106.0	<0.10	<0.10	2.1	1.4	156	<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	162	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	176	0.026 J	<0.050	<0.050	<0.050	<0.15	0.093 J	<0.070	<0.050	<0.15	0.66	0.26	28
	8/7/2012	7.01	59	-102	1058.0	<0.10		2.7	1.9	135	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
	11/19/2012	6.97	726	-101	1164.0	<0.10	<0.10	1.2	1.7	146	0.052J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	0.88	0.67	33
MMW-P-12D	10/24/2011	7.17	210	-100	1070.0	<0.10	<0.10	2.1	1.9	124	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	-94	1227.0	<0.10	<0.10	2.0	1.9	164	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	135	0.022 J	0.041 J	<0.050	<0.050	<0.15	0.089 J	<0.070	0.014 J	<0.15	1.1	0.66	24
	8/7/2012	7.05	30	-118	1320.0	<0.10		3.0	2.0	262	0.017 J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.1	0.4	19
	11/19/2012	7.00	531	-116	1437.0	<0.10	0.67	0.75	1.9	165	0.052J	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	1.2	0.65	20
MMW-P-13S	10/24/2011	7.03	1,350	70	925.3	0.75	<0.10	0.0	1.4	195	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	8,885	171	550.3																	
	4/26/2012	7.06	8,078	80	566.0																	
	8/7/2012	8.78	619	280	1109.0																	
	11/19/2012	6.95	4,503	105	1114.0																	
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	-98	1294.0																	
MMW-P-14S	2/16/2012	6.91	2,166	85	822.1																	
	4/26/2012	6.87	1,885	83	1242.0																	
	8/7/2012	6.92	364	221	1172.0																	
	11/20/2012	6.83	891	80	1213.0																	
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																	
	11/20/2012	7.02	308	-89	1376.0																	
MW-165D	7/7/2010										<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			

Table 4

Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 4 - 2012
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-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																				
*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																	
MW-168S	3/20/2008					2.2				251												
	6/5 & 6/6/2008	6.76			1395.0	5.8				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																				
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												
	6/18/2009					<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				60.8												
	4/29/2011	6.93	206	-199	1056.7																	
	7/28/2011	6.75	528	-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																	
*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																				
*MW-169D	6/7/2008		636		3354.6																	
	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	1488.0																	
	8/3/2012	6.89	379	300	1554.0																	
	11/16/2012	6.93	2,316	171	1484.0																	
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	1898.0																	
	5/2/2012	7.00	82	-82	1587.0																	
	8/3/2012	7.04	68	-82	1690.0																	
	11/16/2012	7.04	200	-119	1224.0																	
*MW-171S	6/7/2008	7.21	626		2714.6																	
	4/29/2011	6.98	4,282	70	798.8																	
	5/2/2012	6.80	72	211	791.5																	

Table 4

Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation
Quarter 4 - 2012
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-171D	6/7/2008	7.32	415		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																	
MMW-C-01	9/10/2008	7.51	477		0.3																	
	11/20/2008	6.79	491	480	2907.9																	
	3/17/2009	6.57	770	693	2702.0																	
	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	707	-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	170	12,000
	10/21/2011	6.92	340	-30	756.5	0.79	<0.10	1.2	2.4	89.0	0.10	<0.050	<0.050	<0.050	<0.15	0.37	<0.070	0.066	<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	0.0073 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	178	-54	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	190	-96	828.6	<0.10		2.2	2.5	36.2	0.0086J	<0.050	<0.050	<0.050	<0.15	0.094J	<0.070	<0.050	<0.15	0.13	3.7	14,000
	11/15/2012	6.50	510	-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
MMW-C-02S	11/20/2008	6.97	931	476	2806.7																	
	3/17/2009	6.55	811	867	2506.9																	
	11/38/09	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	212	-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	694	-146	811.9																	
	10/18/2011	6.82	180	80	779.9																	
	2/15/2012	6.83	156	27	747.9																	
	4/24/2012	6.92	212	17	738.5																	
	8/1/2012	6.94	202	-8	657.5																	
	11/13/2012	6.27	166	11	665.5																	
MMW-C-02D	2/15/2012	7.03	165	-105	902.3																	
	4/26/2012	7.03	57	-158	809.9																	
	8/8/2012	8.03	40	-139	918.0																	
	11/19/2012	6.93	488	-102	1226.0																	
MMW-C-16S	8/6/2012	6.69	108	4	1141.0																	
	11/19/2012	6.59	807	5	1373.0																	
MMW-C-16D	8/6/2012	6.96	42	-101	1241.0																	
	11/19/2012	6.92	472	-93	1368.0																	
MMW-C-17D	8/6/2012	7.17	78	-114	910.0																	
	11/20/2012	7.06	293	-140	1183.0																	

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).

FIGURES

Figure 1	Site Plan
Figure 2a	Shallow Potentiometric Surface Map – November 12, 2012 (Excludes Depiction of Groundwater Trough)
Figure 2b	Shallow Potentiometric Surface Map – November 12, 2012 (Includes Depiction of Groundwater Trough)
Figure 3a	Deep Potentiometric Surface Map – November 12, 2012 (Excludes Depiction of Groundwater Trough)
Figure 3b	Deep Potentiometric Surface Map – November 12, 2012 (Includes Depiction of Groundwater Trough)
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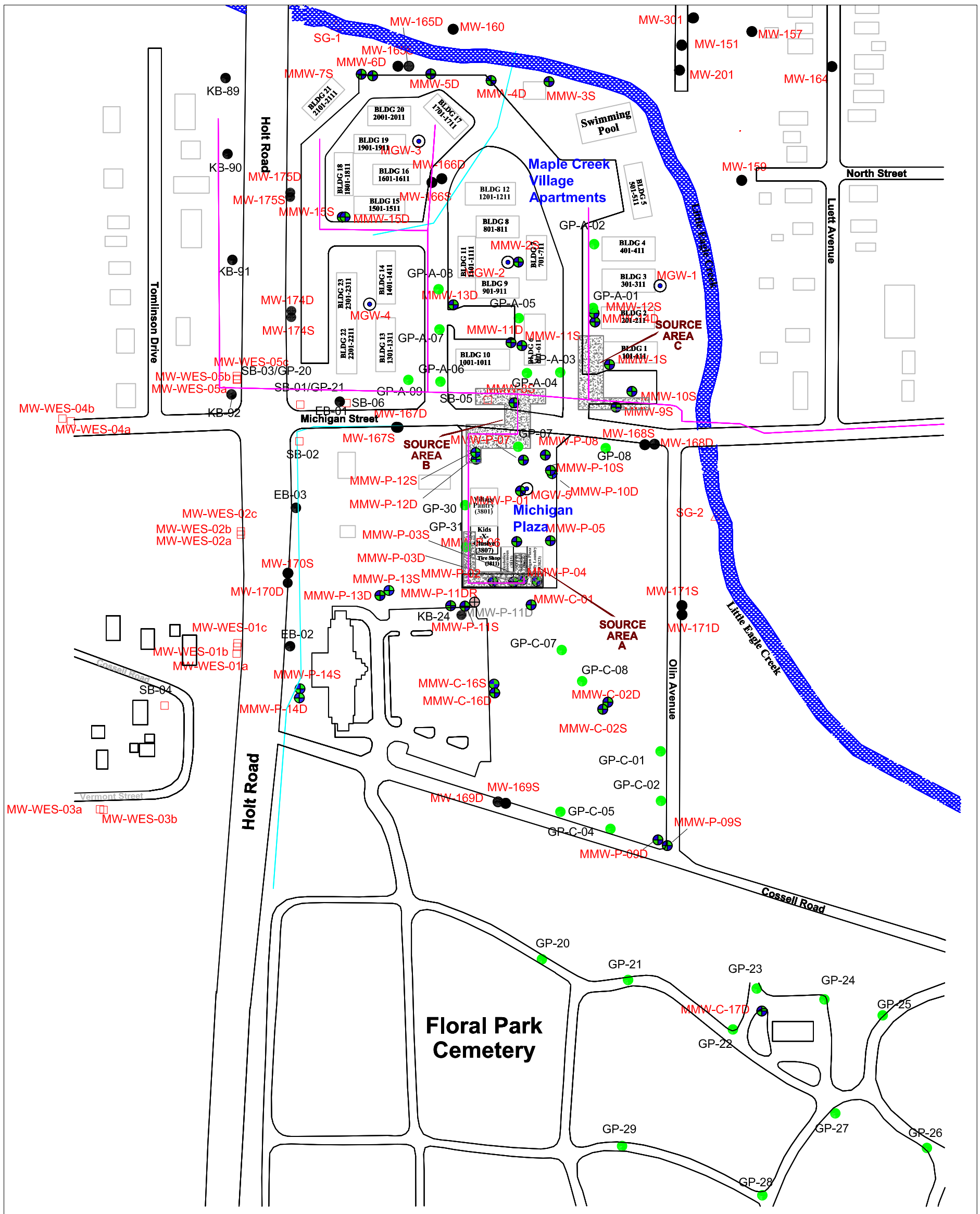
Figure 12	PCE Concentration Trends & Cumulative Pounds Removed (B4)
Figure 13	PCE Concentration Trends & Cumulative Pounds Removed (B5)
Figure 14	PCE Concentration Trends & Cumulative Pounds Removed (B6)
Figure 15	PCE Concentration Trends & Cumulative Pounds Removed (B7)
Figure 16	PCE Concentration Trends & Cumulative Pounds Removed (B1 through B4)
Figure 17	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

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

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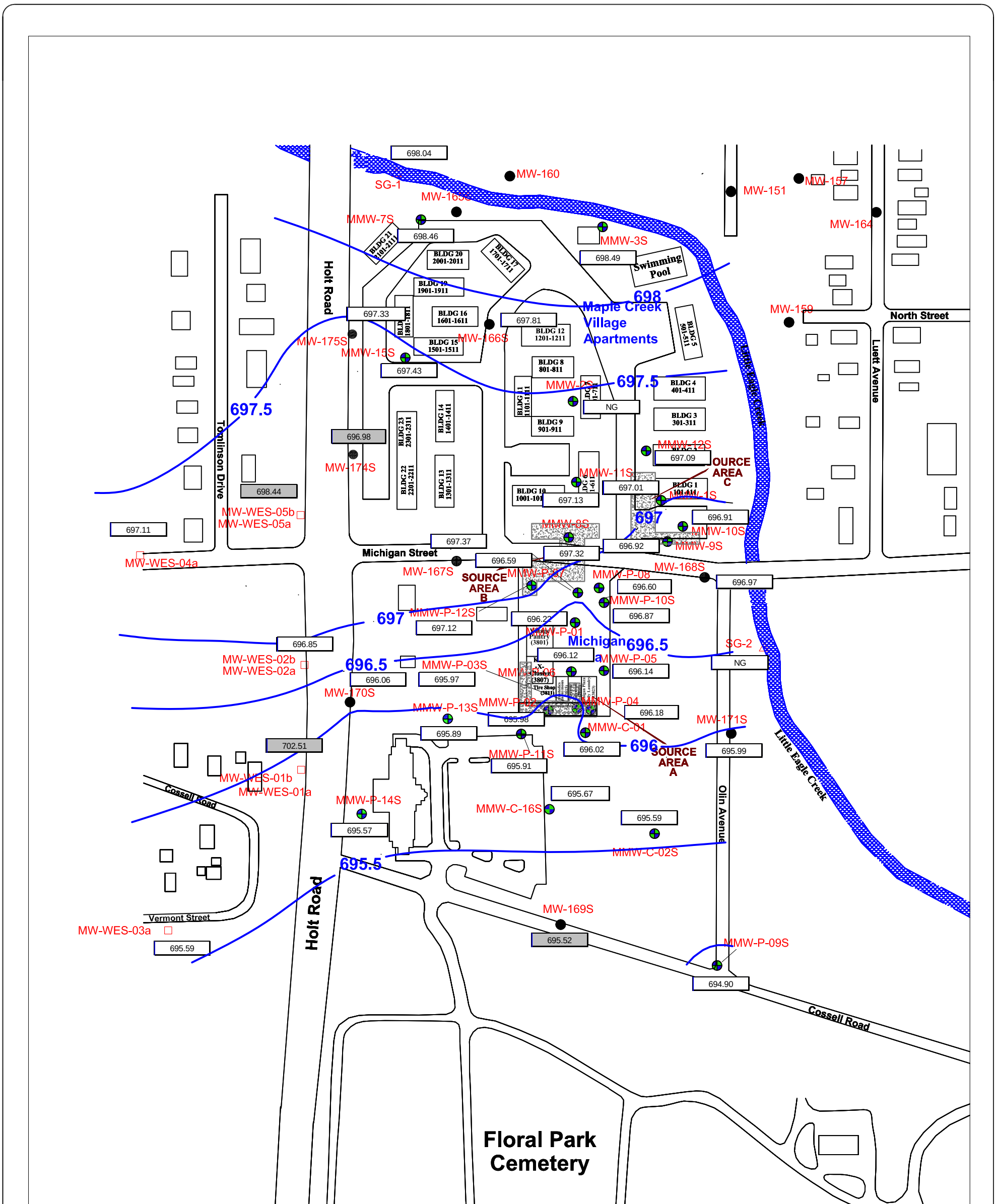
Project Number: M01046
Drawing File: 3Q12 QMR
Date Prepared: 12-11-12
Scale: 1"=200'

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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Indianapolis, Indiana 46219
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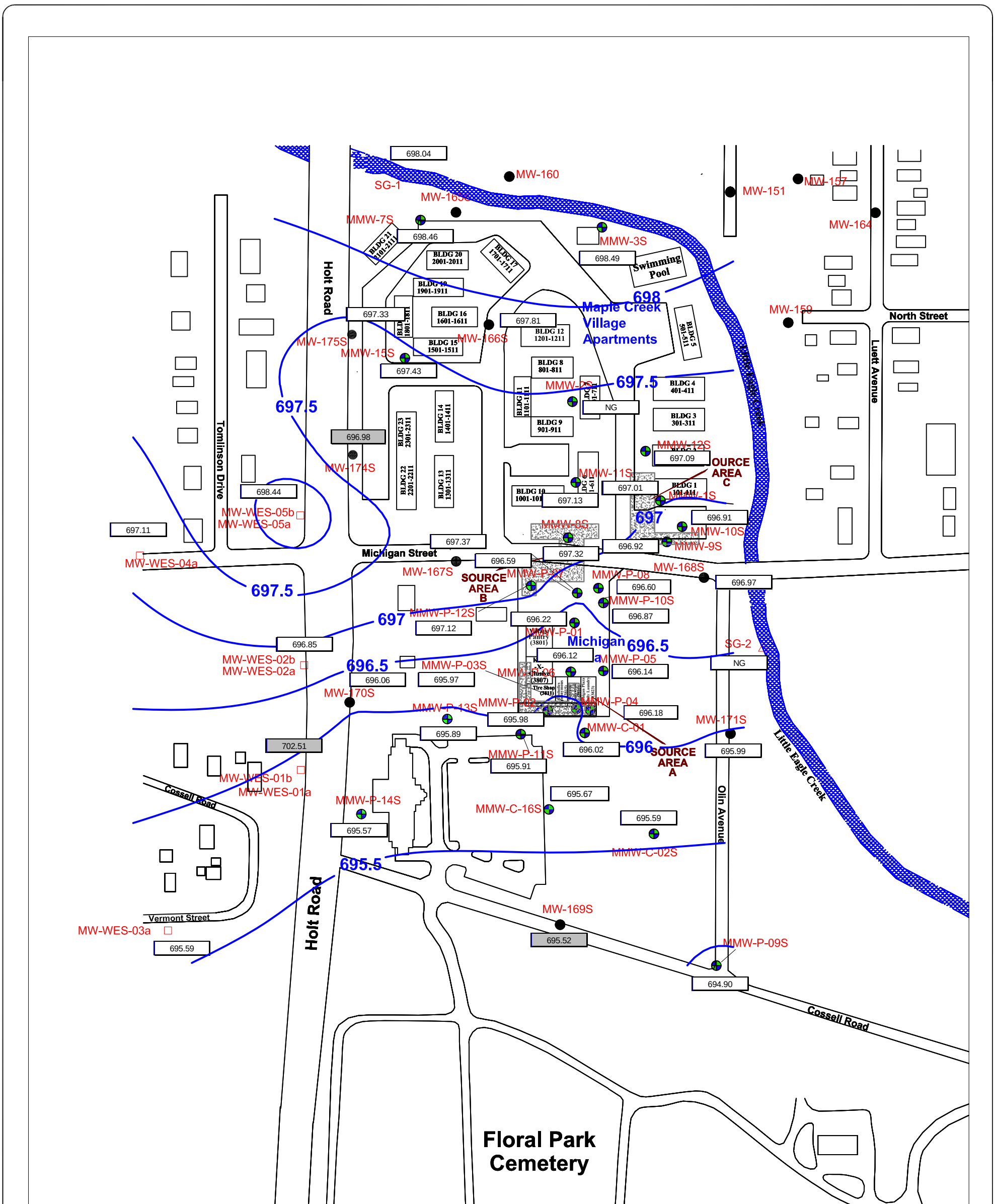
Project Number: M01046
Drawing File: 4Q12 QMR
Date Prepared: 1-17-13
Scale: 1"=200'

SHALLOW POTENTIOMETRIC SURFACE - 4TH QUARTER 2012
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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SHALLOW POTENTIOMETRIC SURFACE - 4TH QUARTER 2012
Michigan Plaza
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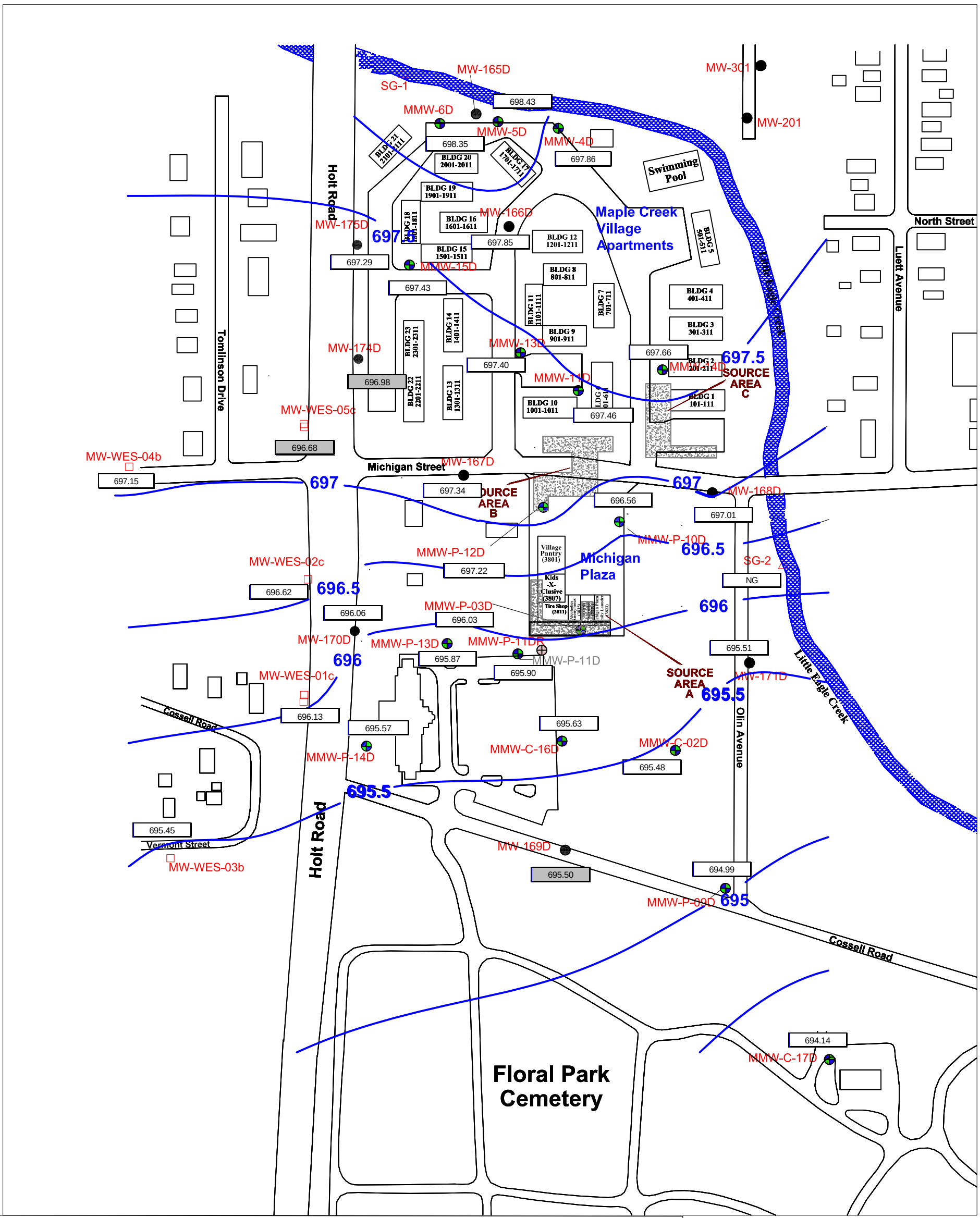
Indianapolis, INDIANA

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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Drawing File:	4Q12 QMR
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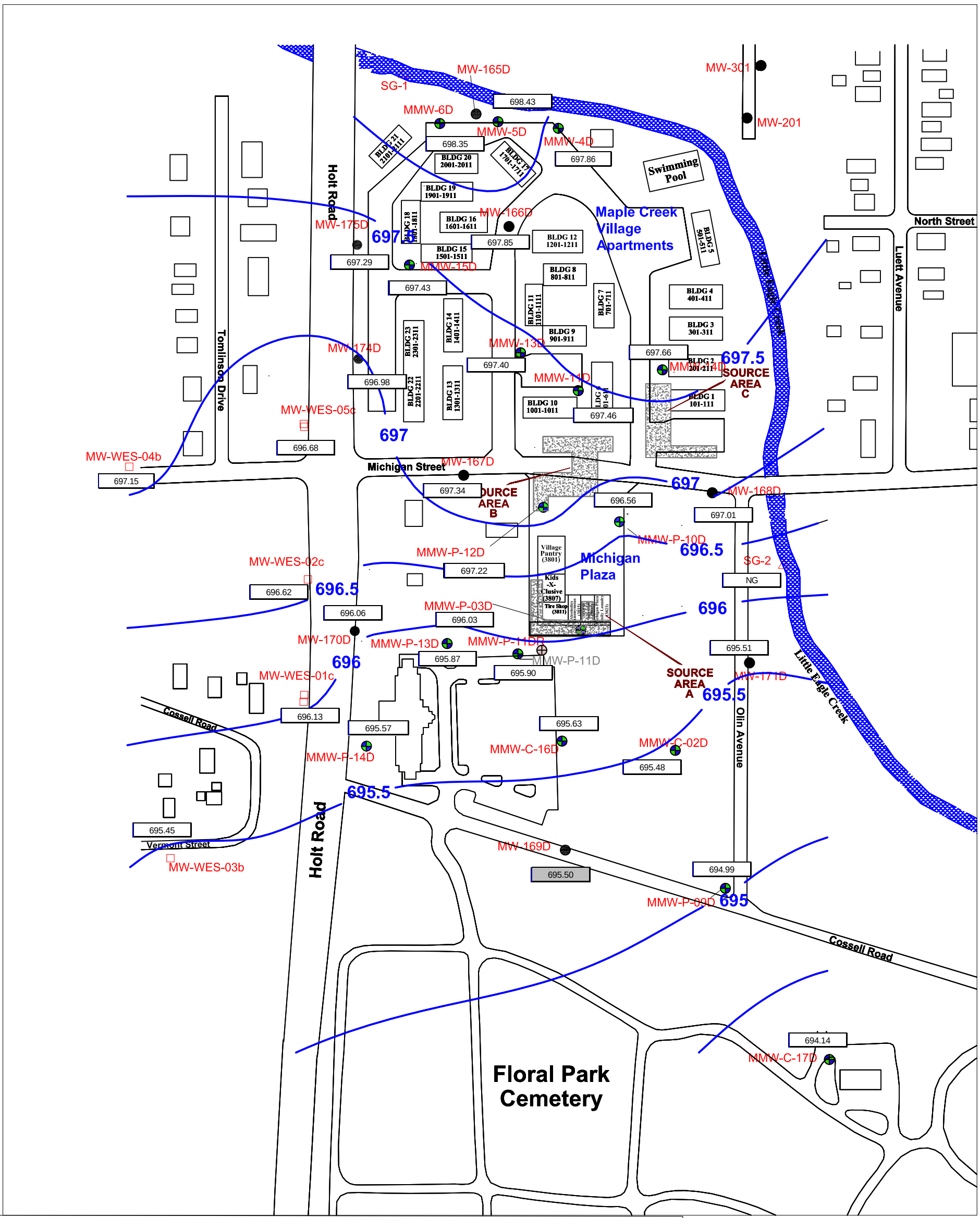
Scale:	1"=200'

DEEP POTENTIOMETRIC SURFACE - 4TH QUARTER 2012

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-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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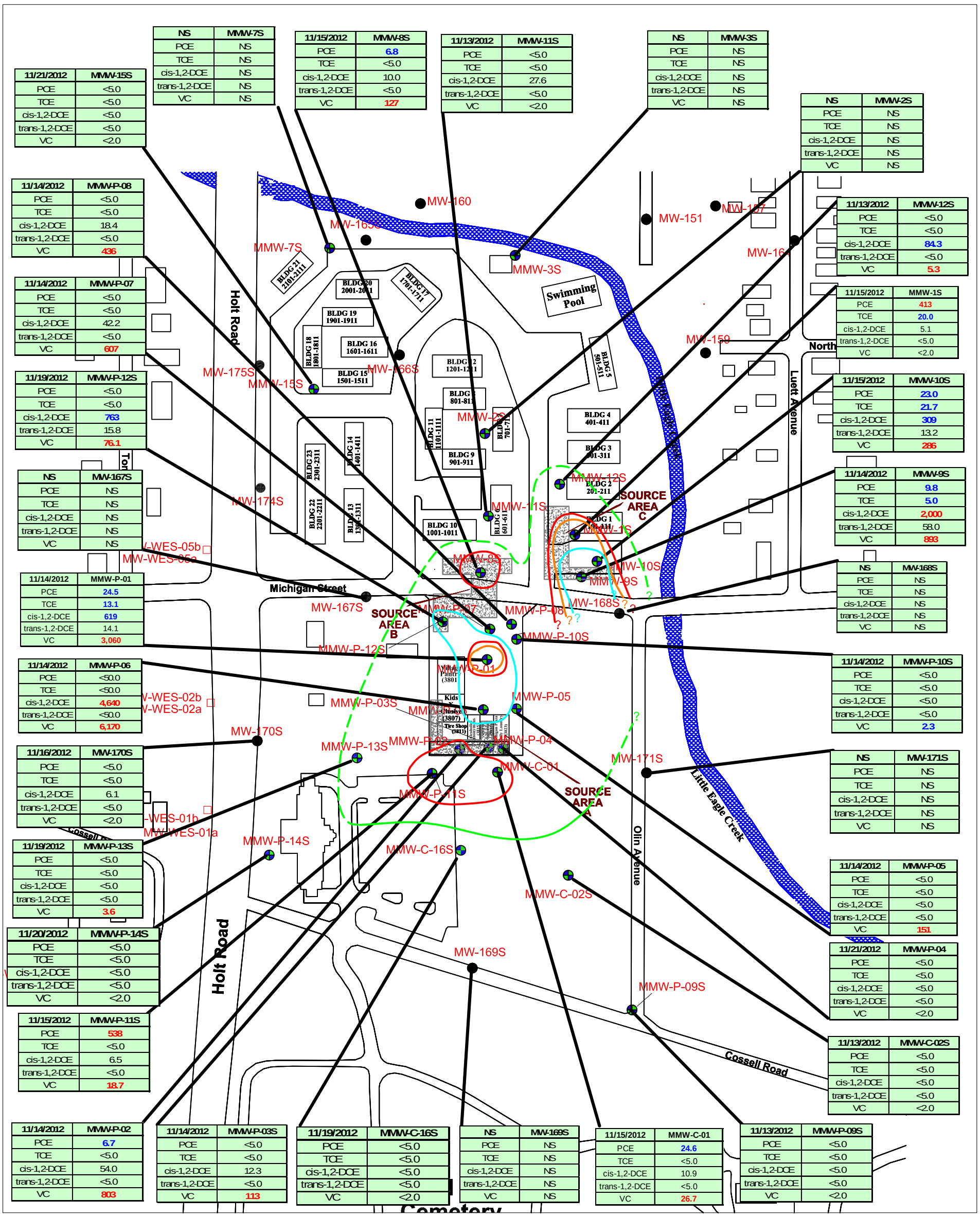
Drawing File:	4Q12 QMR
Date Prepared:	1-17-13
Scale:	1"=200'

DEEP POTENTIOMETRIC SURFACE - 4TH QUARTER 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 3b



11/21/2012	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-7S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

11/15/2012	MMW-8S
PCE	6.8
TCE	<5.0
cis-1,2-DCE	10.0
trans-1,2-DCE	<5.0
VC	127

11/13/2012	MMW-11S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	27.6
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

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

11/14/2012	MMW-P-08
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	18.4
trans-1,2-DCE	<5.0
VC	436

11/13/2012	MMW-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	84.3
trans-1,2-DCE	<5.0
VC	5.3

11/14/2012	MMW-P-07
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	42.2
trans-1,2-DCE	<5.0
VC	607

11/15/2012	MMW-1S
PCE	413
TCE	20.0
cis-1,2-DCE	5.1
trans-1,2-DCE	<5.0
VC	<2.0

11/19/2012	MMW-P-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	763
trans-1,2-DCE	15.8
VC	76.1

11/15/2012	MMW-10S
PCE	23.0
TCE	21.7
cis-1,2-DCE	309
trans-1,2-DCE	13.2
VC	286

11/14/2012	MMW-9S
PCE	9.8
TCE	5.0
cis-1,2-DCE	2,000
trans-1,2-DCE	58.0
VC	893

NS	MW-167S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

NS	MW-168S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

11/14/2012	MMW-P-01
PCE	24.5
TCE	13.1
cis-1,2-DCE	619
trans-1,2-DCE	14.1
VC	3,060

11/14/2012	MMW-P-10S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	2.3

11/14/2012	MMW-P-06
PCE	<50.0
TCE	<50.0
cis-1,2-DCE	4,640
trans-1,2-DCE	<50.0
VC	6,170

11/16/2012	MW-170S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	6.1
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

11/19/2012	MMW-P-13S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	3.6

11/14/2012	MMW-P-05
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	151

11/20/2012	MMW-P-14S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

11/21/2012	MMW-P-04
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

11/15/2012	MMW-P-11S
PCE	538
TCE	<5.0
cis-1,2-DCE	6.5
trans-1,2-DCE	<5.0
VC	18.7

11/13/2012	MMW-C-02S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

11/14/2012	MMW-P-02
PCE	6.7
TCE	<5.0
cis-1,2-DCE	54.0
trans-1,2-DCE	<5.0
VC	803

11/14/2012	MMW-P-03S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	12.3
trans-1,2-DCE	<5.0
VC	113

11/19/2012	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

11/15/2012	MMW-C-01
PCE	24.6
TCE	<5.0
cis-1,2-DCE	10.9
trans-1,2-DCE	<5.0
VC	26.7

11/13/2012	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

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)

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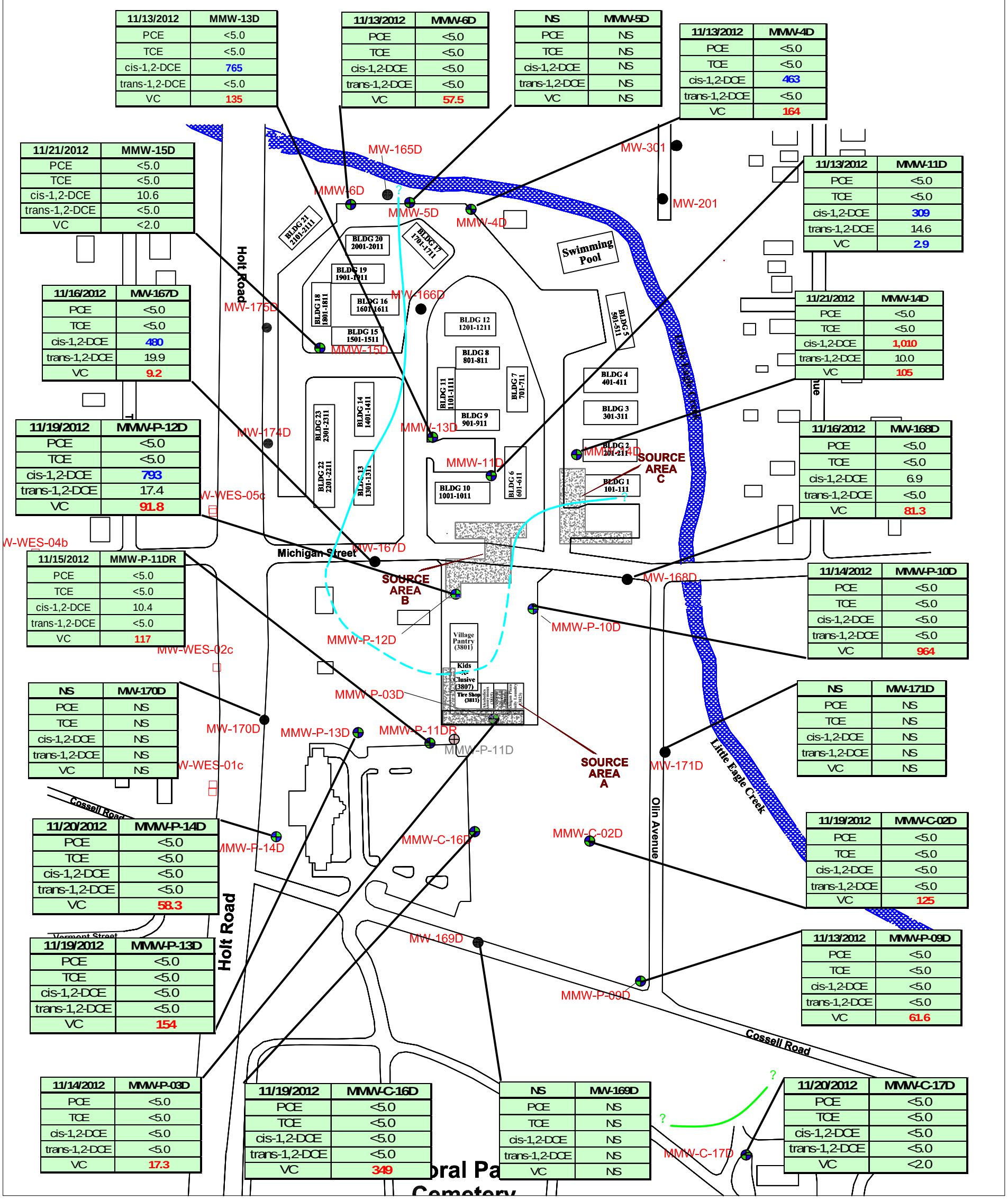
Drawing File: 4Q12 QMR
Date Prepared: 1-11-13
Scale: 1"=200'

GROUNDWATER ANALYTICAL MAP - SHALLOW 4TH QUARTER 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 4



11/13/2012	MMW-13D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	765
trans-1,2-DCE	<5.0
VC	135

11/13/2012	MMW-6D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	57.5

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

11/13/2012	MMW-4D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	463
trans-1,2-DCE	<5.0
VC	164

11/21/2012	MMW-15D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	10.6
trans-1,2-DCE	<5.0
VC	<2.0

11/13/2012	MMW-11D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	309
trans-1,2-DCE	14.6
VC	2.9

11/16/2012	MW-167D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	480
trans-1,2-DCE	19.9
VC	9.2

11/21/2012	MMW-14D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	1,010
trans-1,2-DCE	10.0
VC	105

11/19/2012	MMW-P-12D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	793
trans-1,2-DCE	17.4
VC	91.8

11/16/2012	MW-168D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	6.9
trans-1,2-DCE	<5.0
VC	81.3

11/15/2012	MMW-P-11DR
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	10.4
trans-1,2-DCE	<5.0
VC	117

11/14/2012	MMW-P-10D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	964

NS	MW-170D
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

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

11/20/2012	MMW-P-14D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	58.3

11/19/2012	MMW-C-02D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	125

11/19/2012	MMW-P-13D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	154

11/13/2012	MMW-P-09D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	61.6

11/14/2012	MMW-P-03D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	17.3

11/19/2012	MMW-C-16D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	349

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

11/20/2012	MMW-C-17D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

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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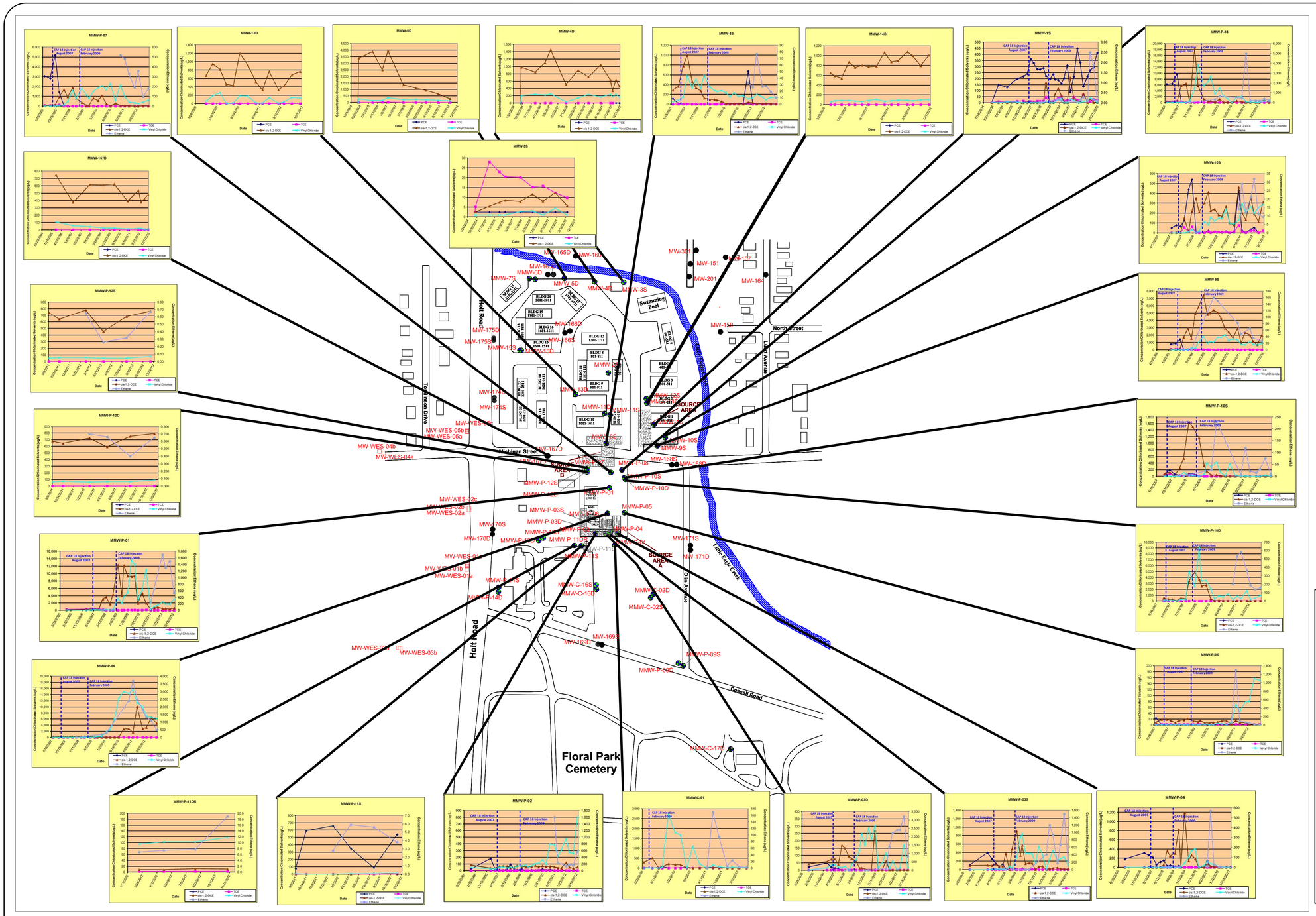
Drawing File: 4Q12 QMR
Date Prepared: 1-11-13
Scale: 1"=200'

GROUNDWATER ANALYTICAL MAP - DEEP
4TH QUARTER 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 5



REV.	DATE	DESCRIPTION	BY	APPR.

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

DRAFTED BY: MTB DATE: 11/15/12
CHECKED BY: SVE DATE: 11/15/12
APPROVED BY: MEB DATE: 12/14/12

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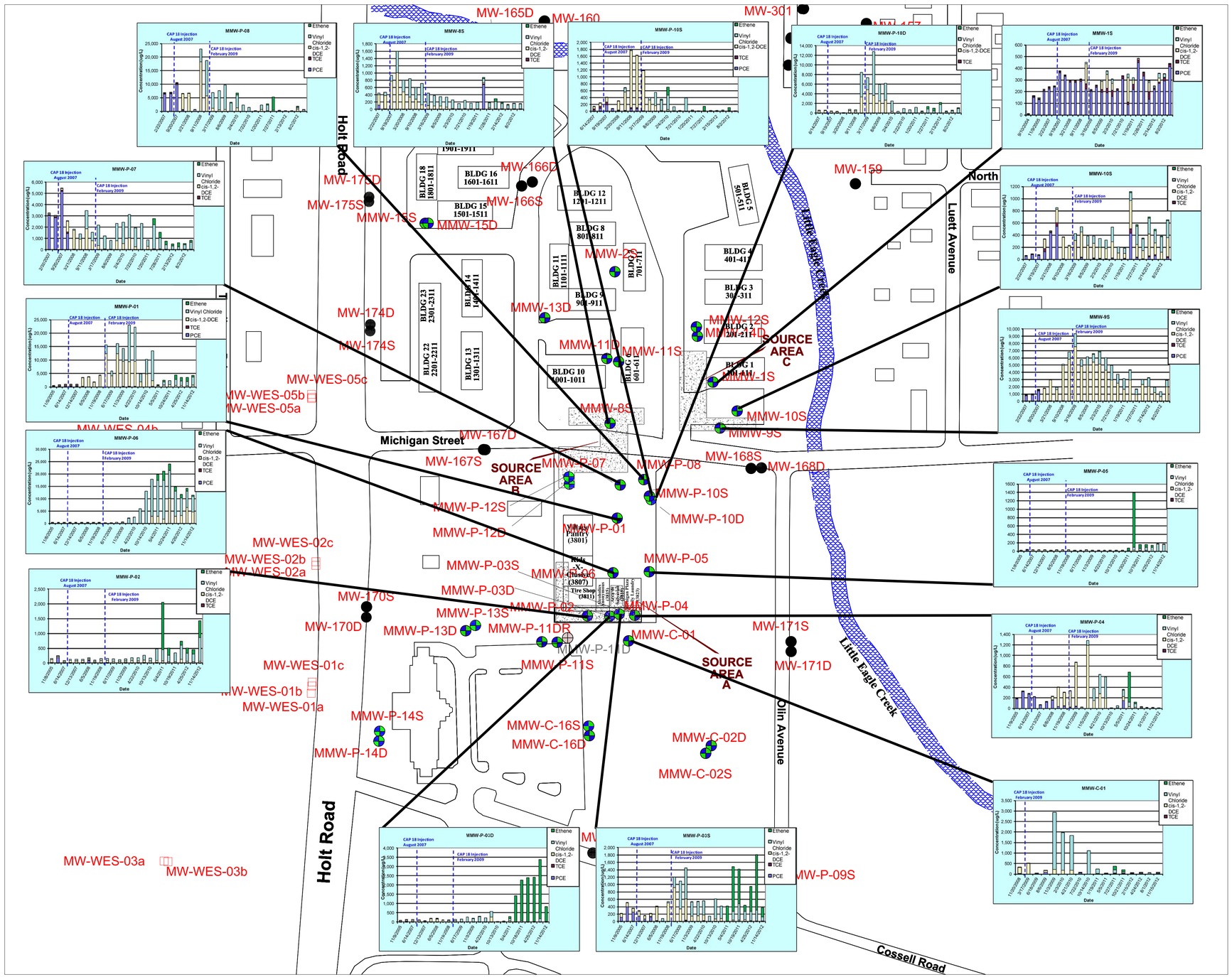
Indicator Compound Trends in Groundwater

Michigan Plaza
3801 - 3823 Michigan Street
Indianapolis, Indiana

FIGURE 6



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REV.	DATE	DESCRIPTION	BY	APPR.

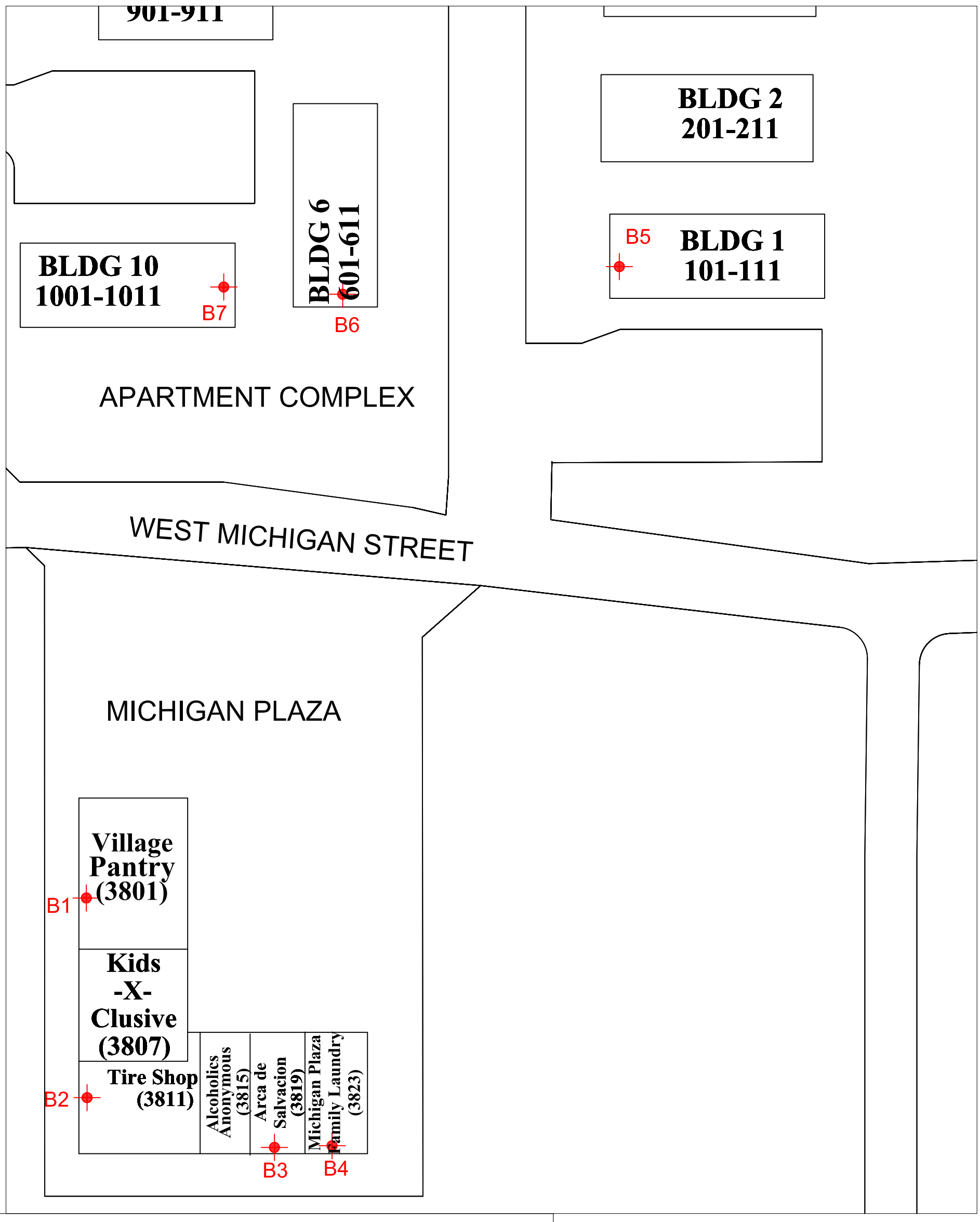
PROJECT NO.:	M01046	FILE NO.:	GW Quarterly.DWG
DRAWING:	1"=100'	PLOT SIZE:	ANSI D
DRAFTED BY:	MEB	DATE:	12/17/12
CHECKED BY:	MEB	DATE:	12/17/12
APPROVED BY:	MEB	DATE:	12/20/12

Parent and Daughter Compound Trends in Groundwater

Michigan Plaza
3801 - 3823 Michigan Street
Indianapolis, Indiana

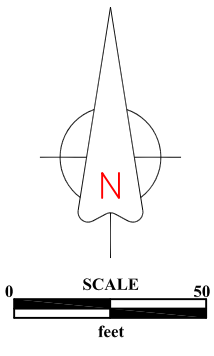
FIGURE

7



LEGEND

B1 System Location



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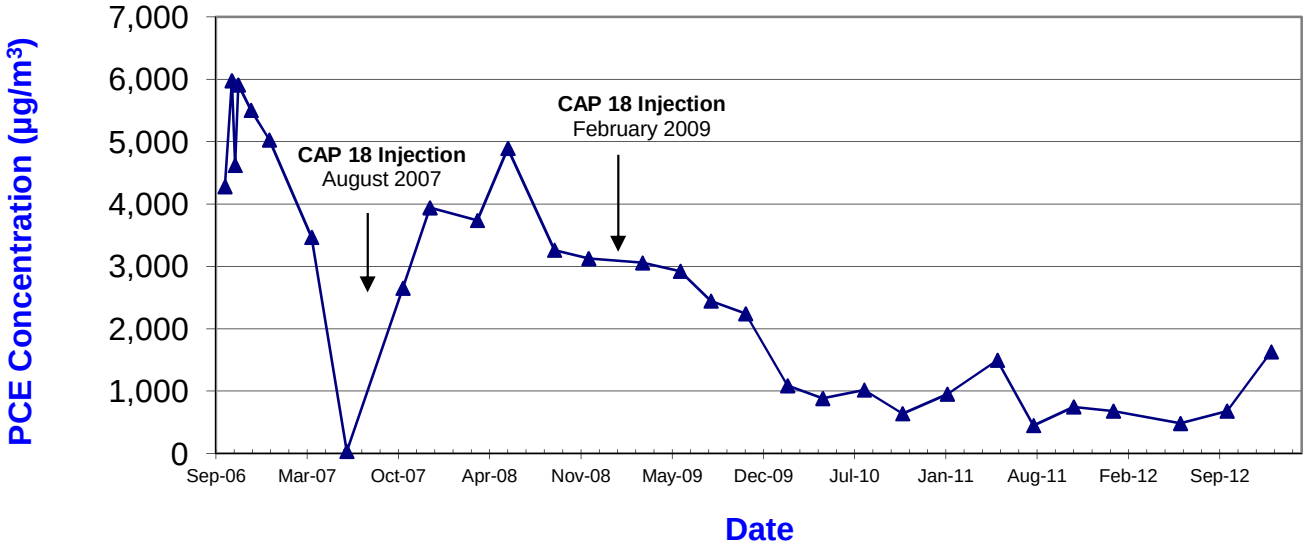
Project Number:	M01046
Drawing File:	3Q12 QMR
Date Prepared:	12/20/12
Scale:	1"=50'

SYSTEM LOCATION MAP

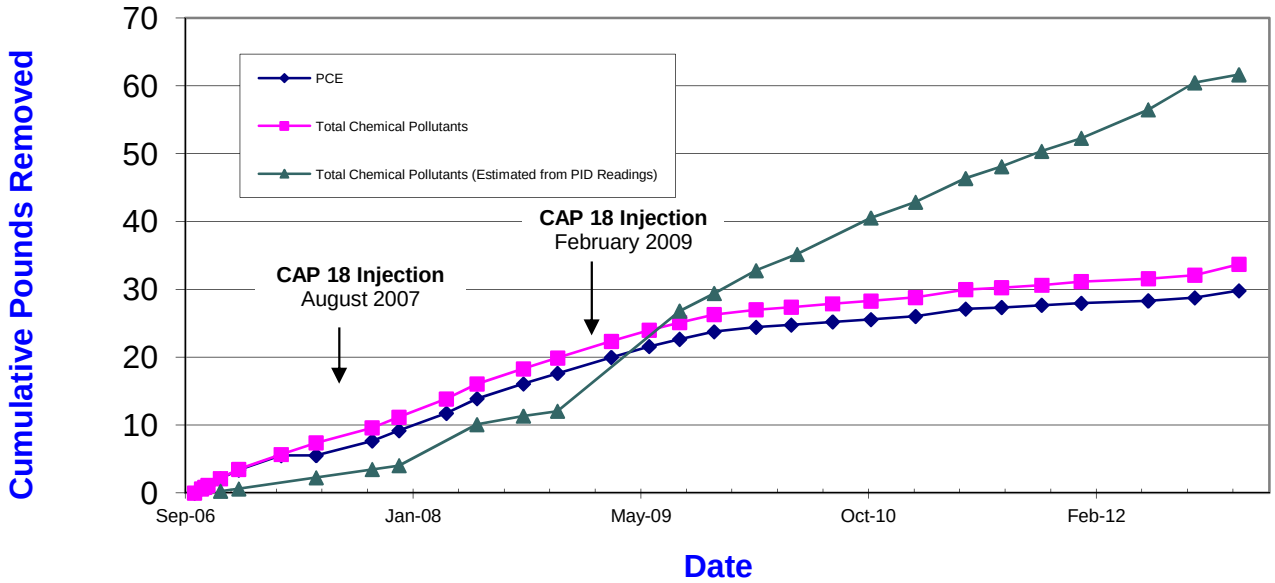
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
8

PCE Vapor Concentrations Trend - Village Pantry (Unit 3801) Vapor Mitigation System (B1)



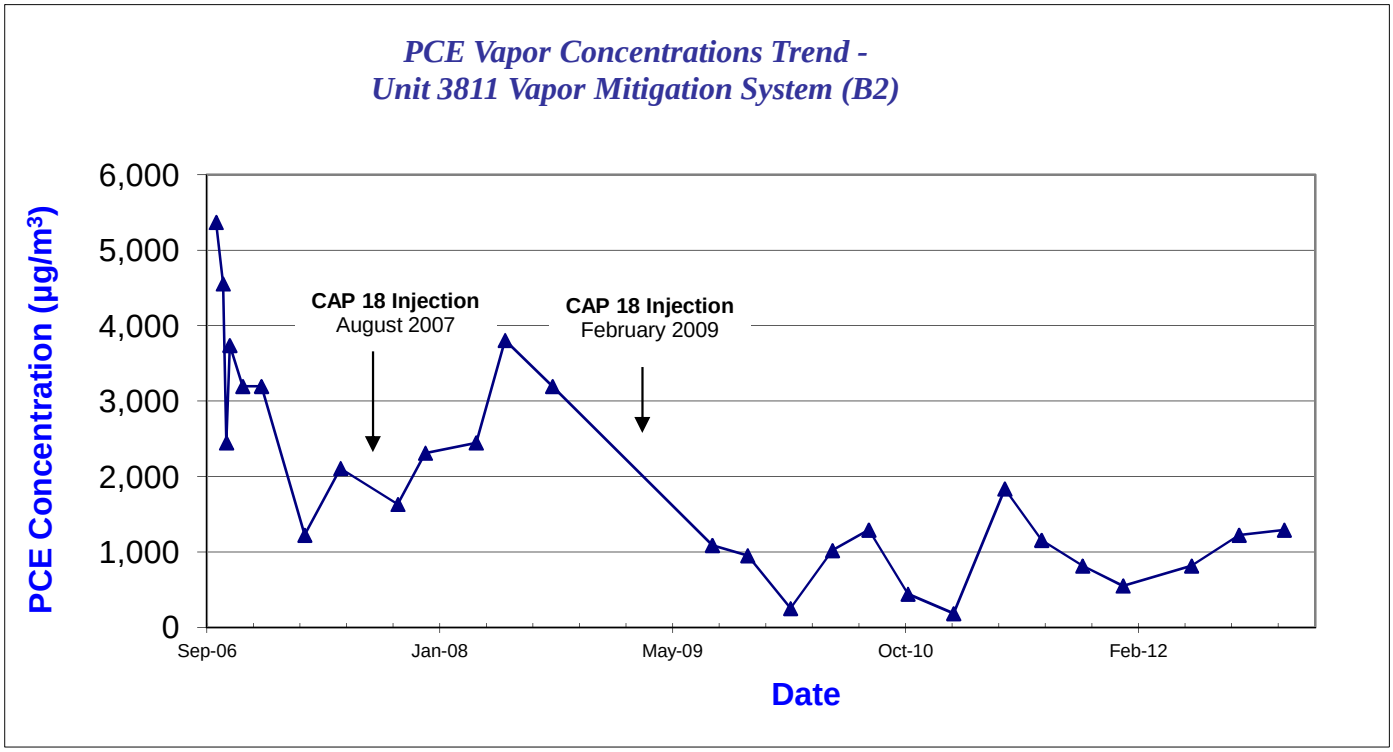
Chemical Pounds Removed - Villiage Pantry (Unit 3801) Vapor Mitigation System (B1)

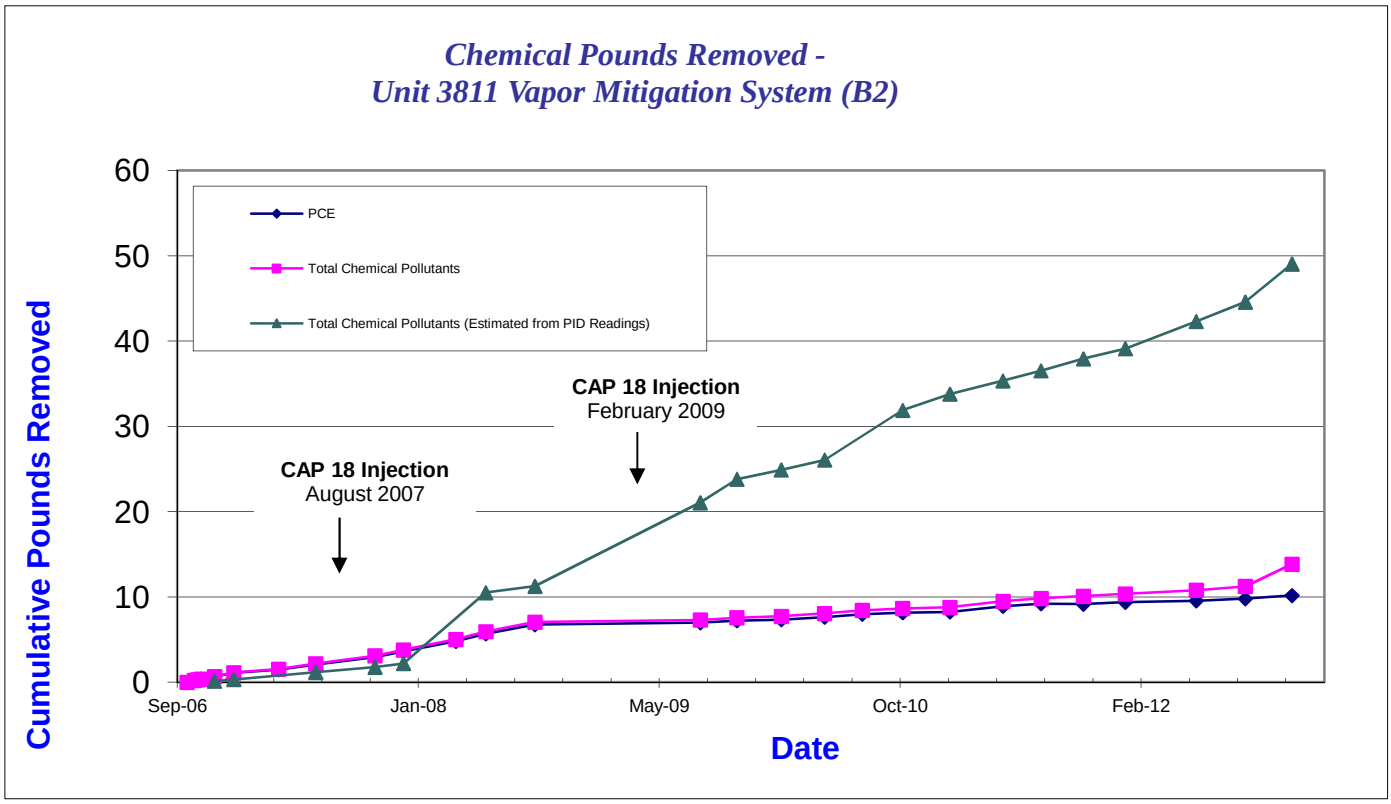


Mundell Consulting Professionals for the Earth and the Environment	*Mundell & Associates, Inc.* *110 South Downey Avenue* *Indianapolis, Indiana 46219* *www.MundellAssociates.com*	**Project Number:** M01046 **File:** MI Plaza charts **Date Prepared:** 1/15/2013 **Scale:** no scale	PCE Concentration Trends and Cumulative Pounds Removed Vapor Mitigation System B-1 (Villiage Pantry - Unit 3801) Fourth Quarter 2012 Michigan Plaza 3801-3823 West Michigan Street Indianapolis, IN

FIGURE

9





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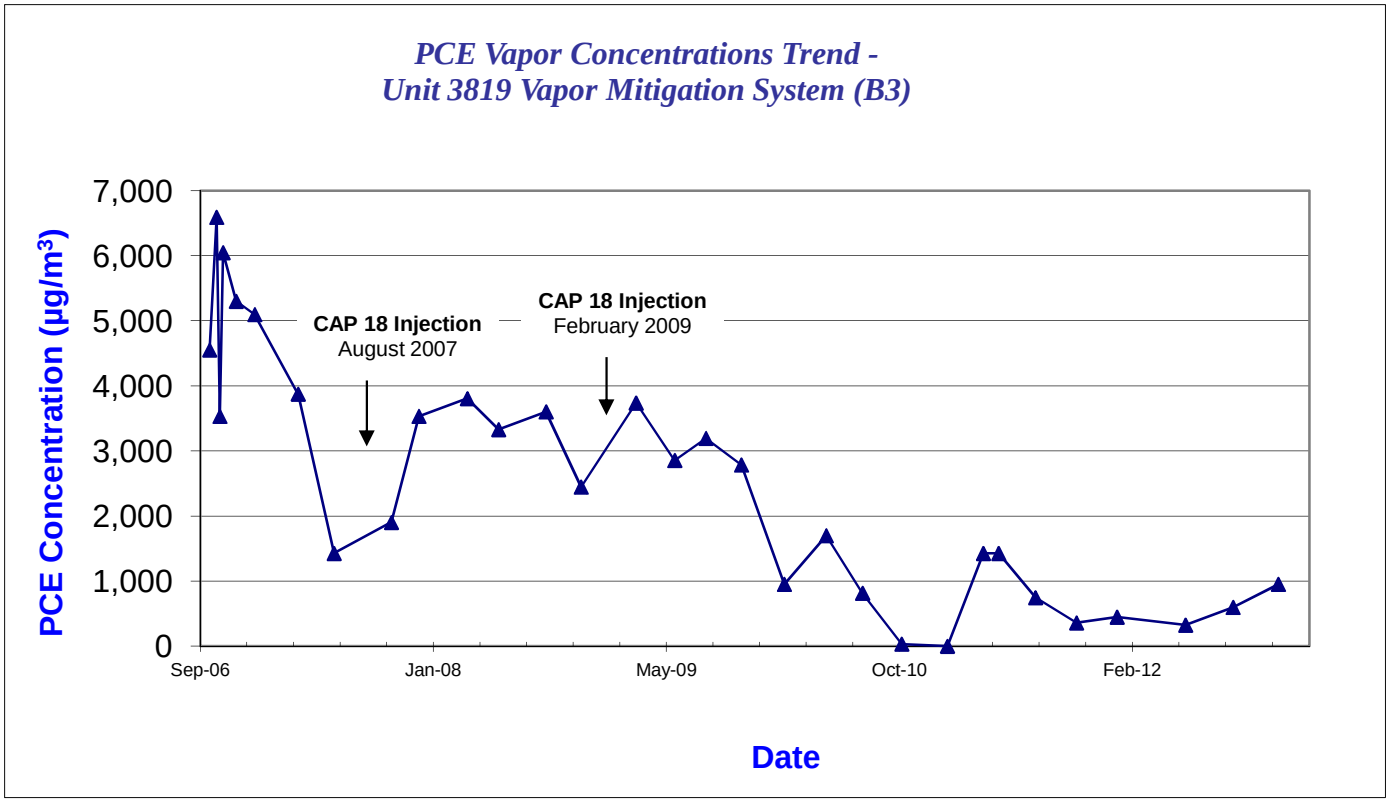
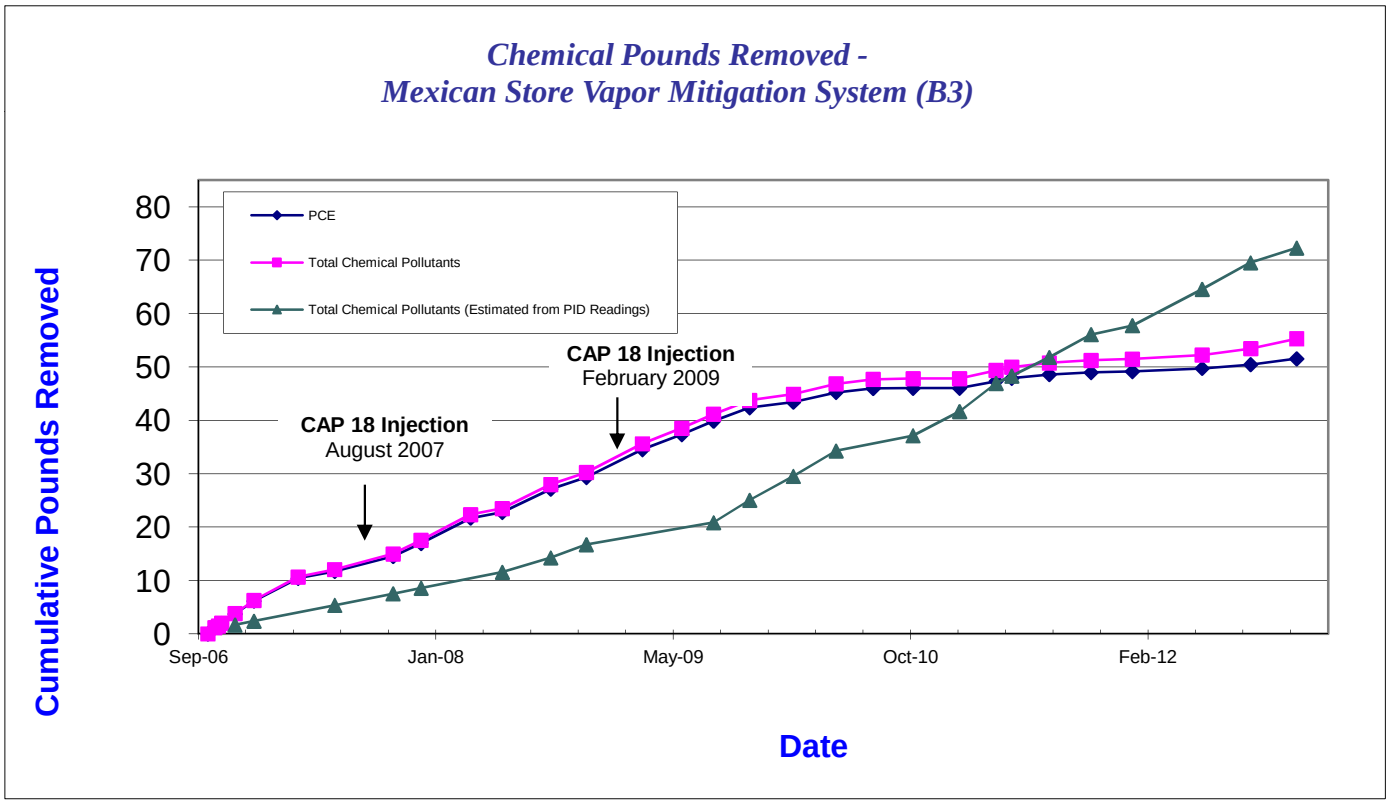
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-2 (Unit 3811)
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

10





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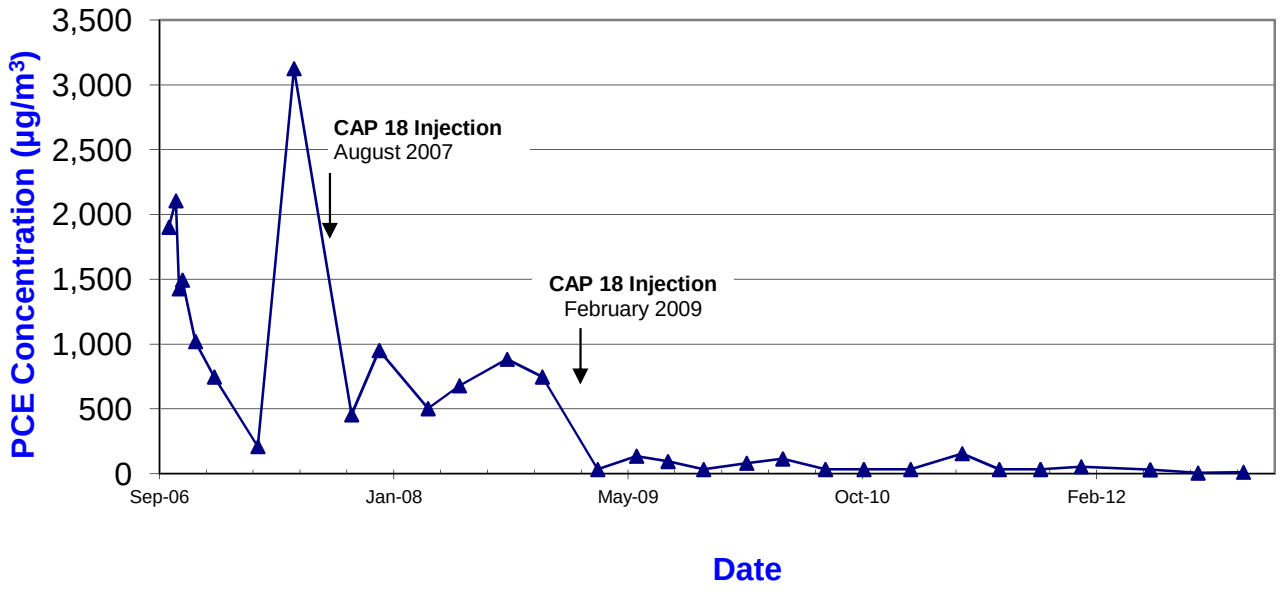
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-3 (Unit 3819)
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

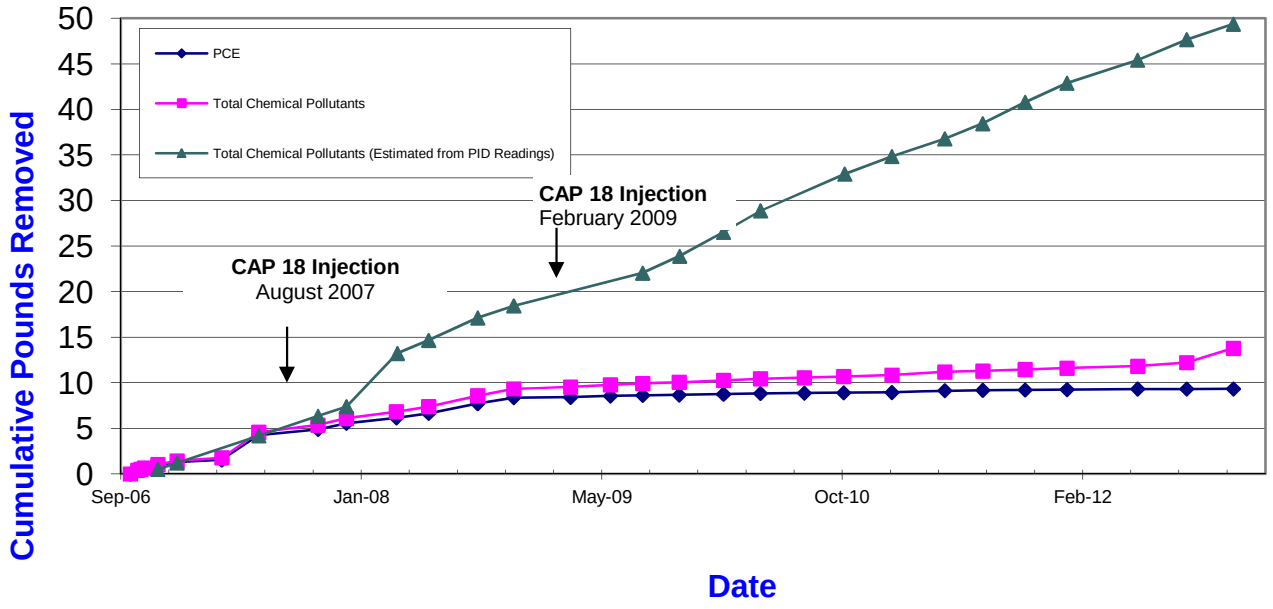
FIGURE

11

PCE Vapor Concentrations Trend - Laundromat Vapor Mitigation System (B4)



Chemical Pounds Removed - Laundromat Vapor Mitigation System (B4)



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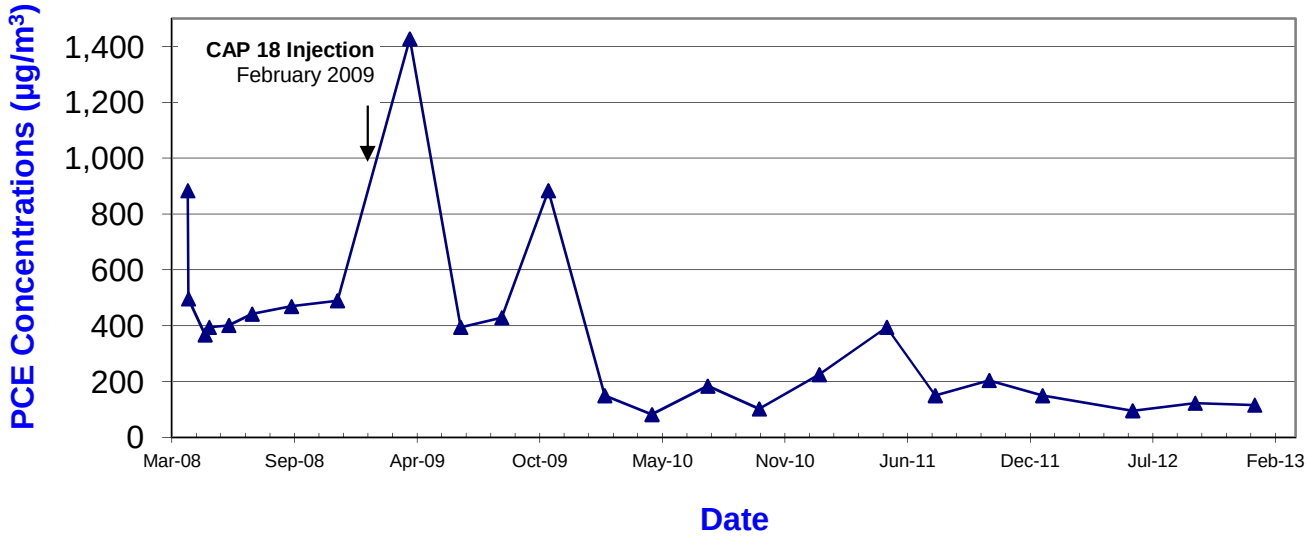
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-4 (Laundromat - Unit 3823)
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

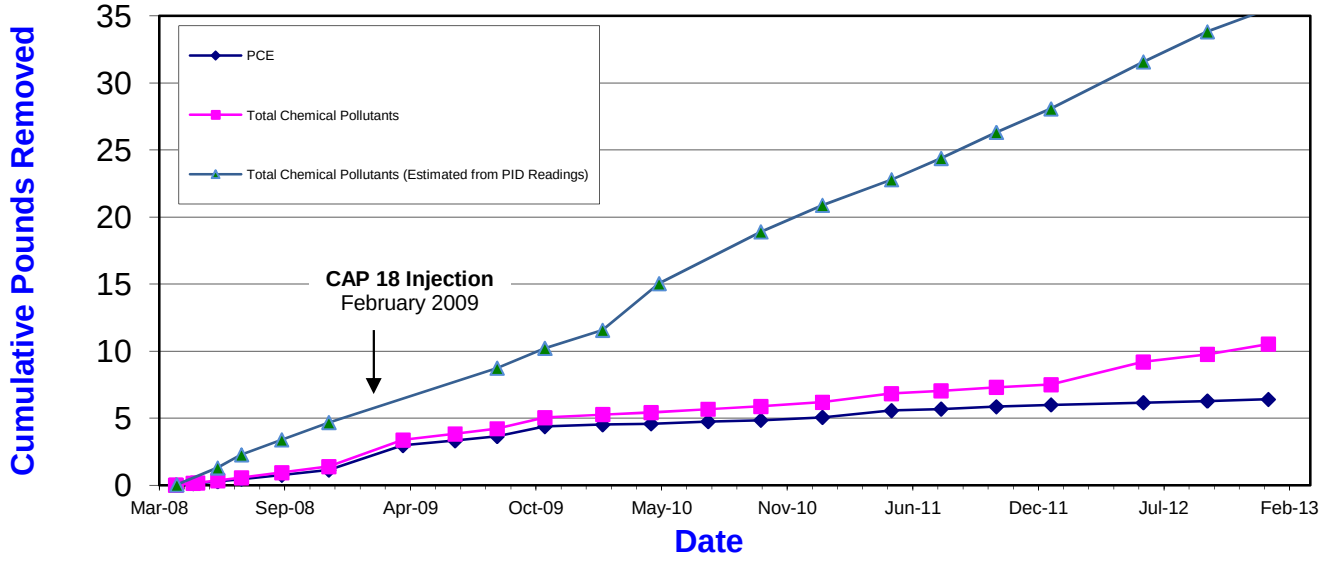
FIGURE

12

PCE Vapor Concentrations Trend - Apartment Building 1 Vapor Mitigation System (B5)



Chemical Pounds Removed - Apartment Building 1 Vapor Mitigation System (B5)



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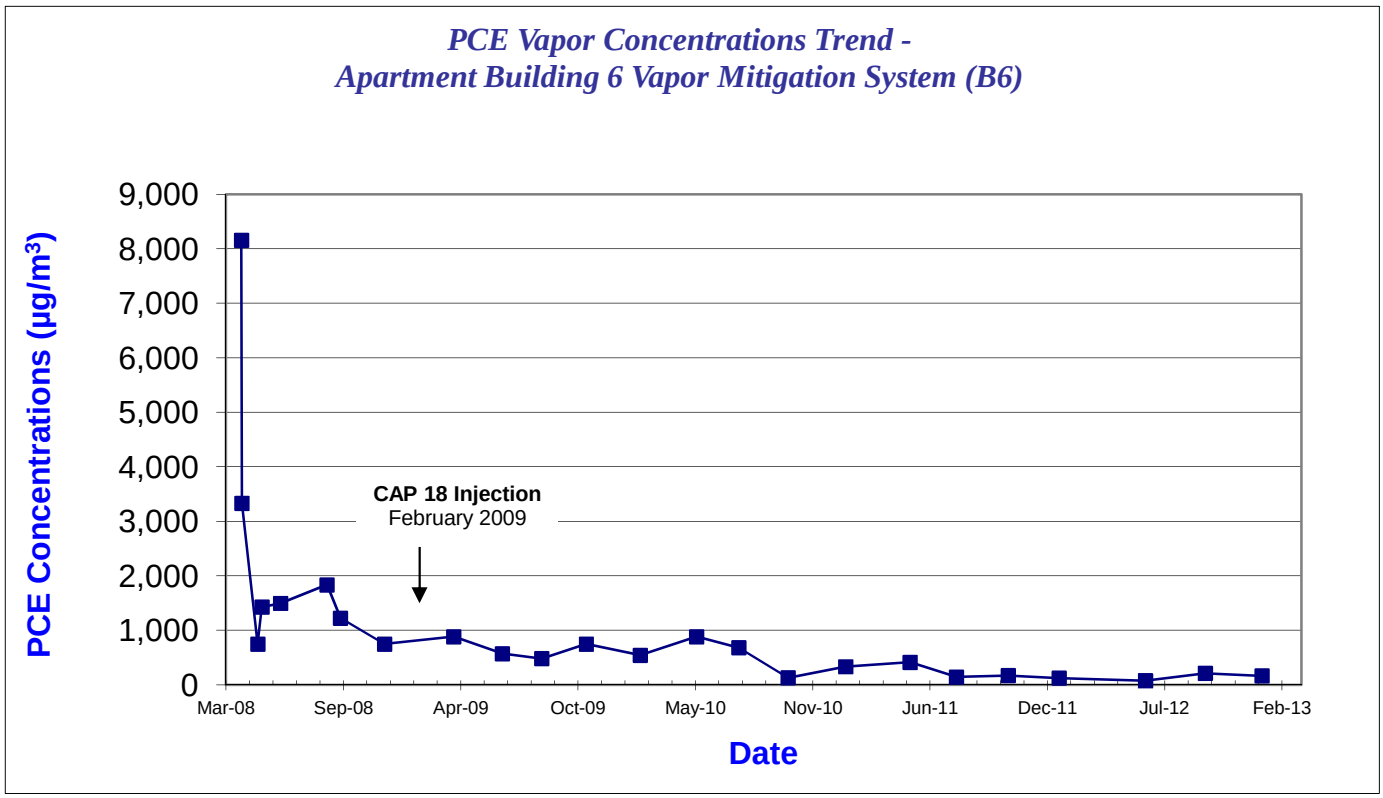
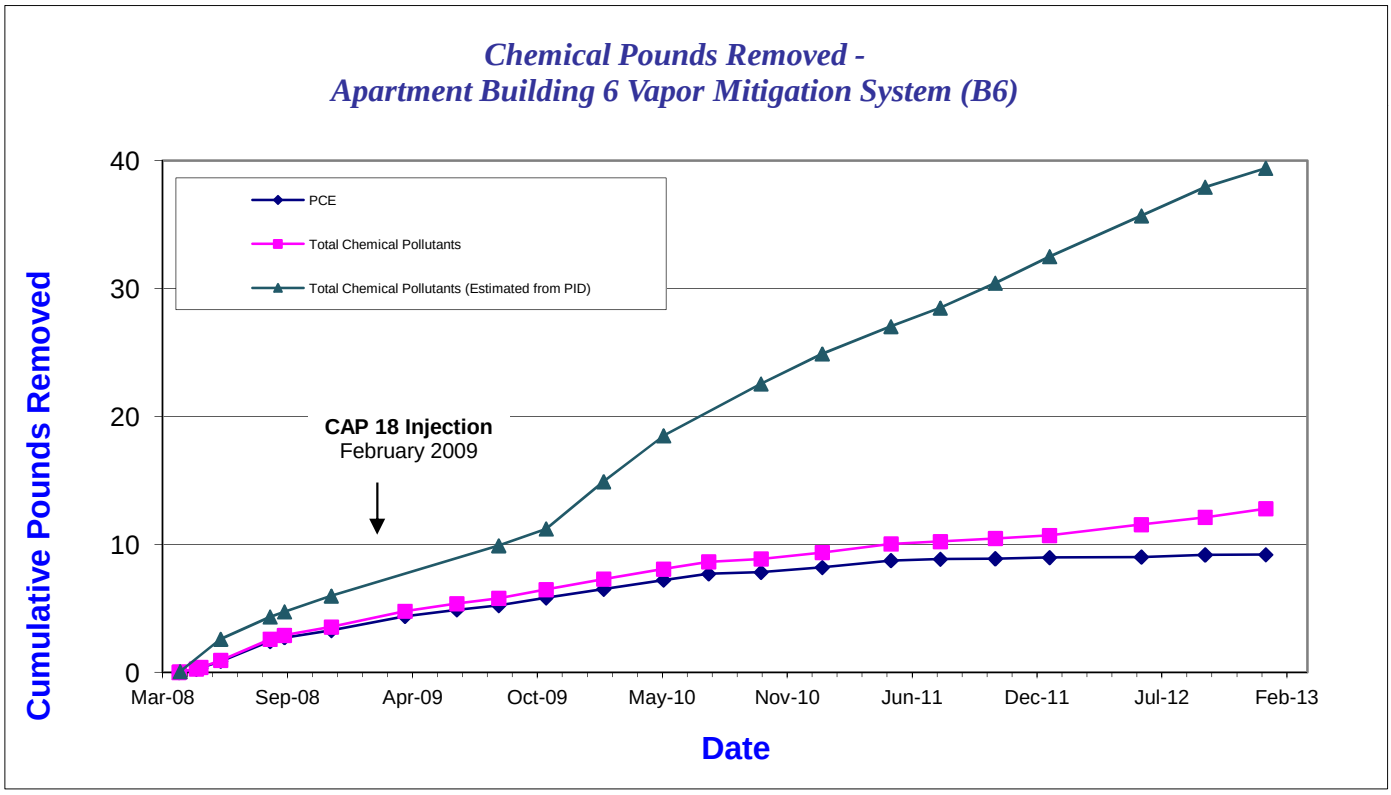
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-5 (Apartments, Bldg. 1)
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

13





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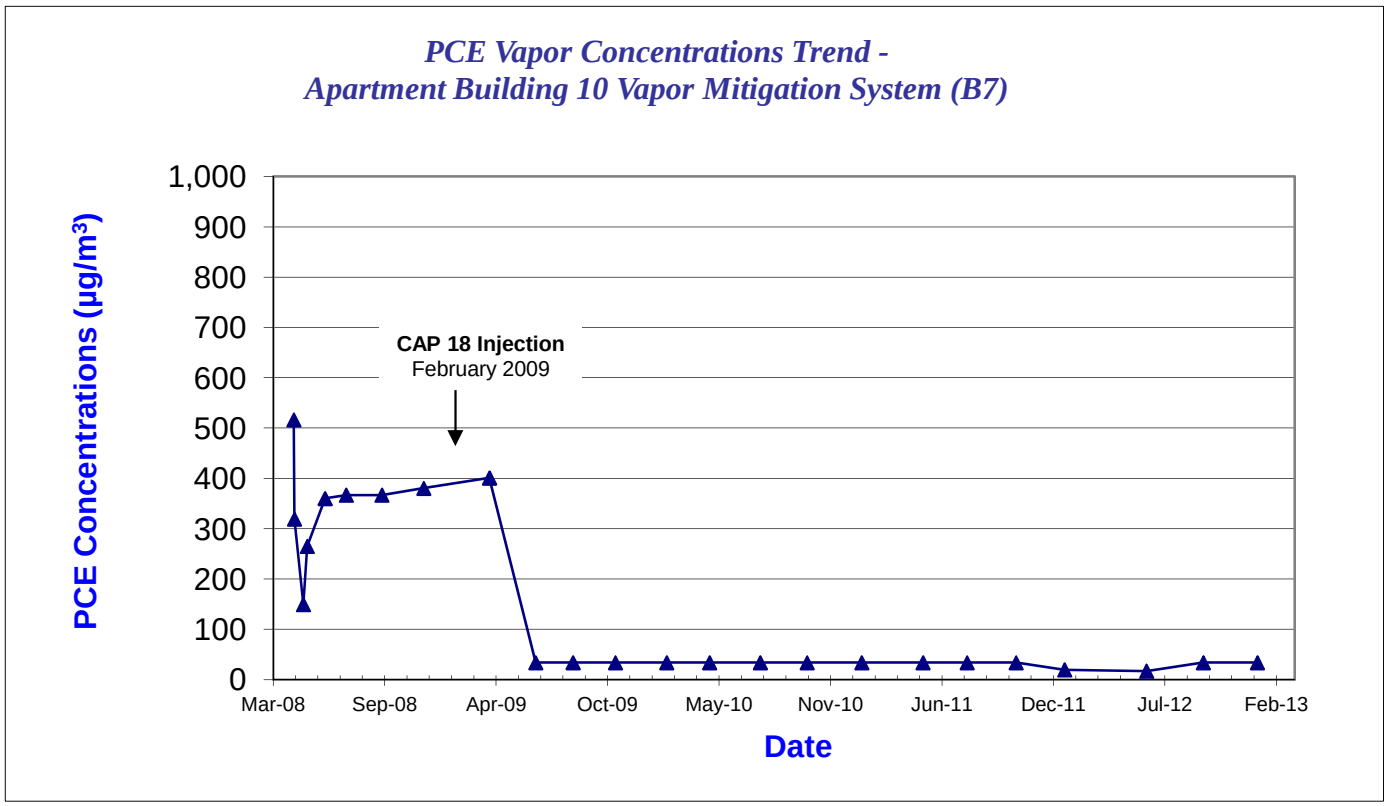
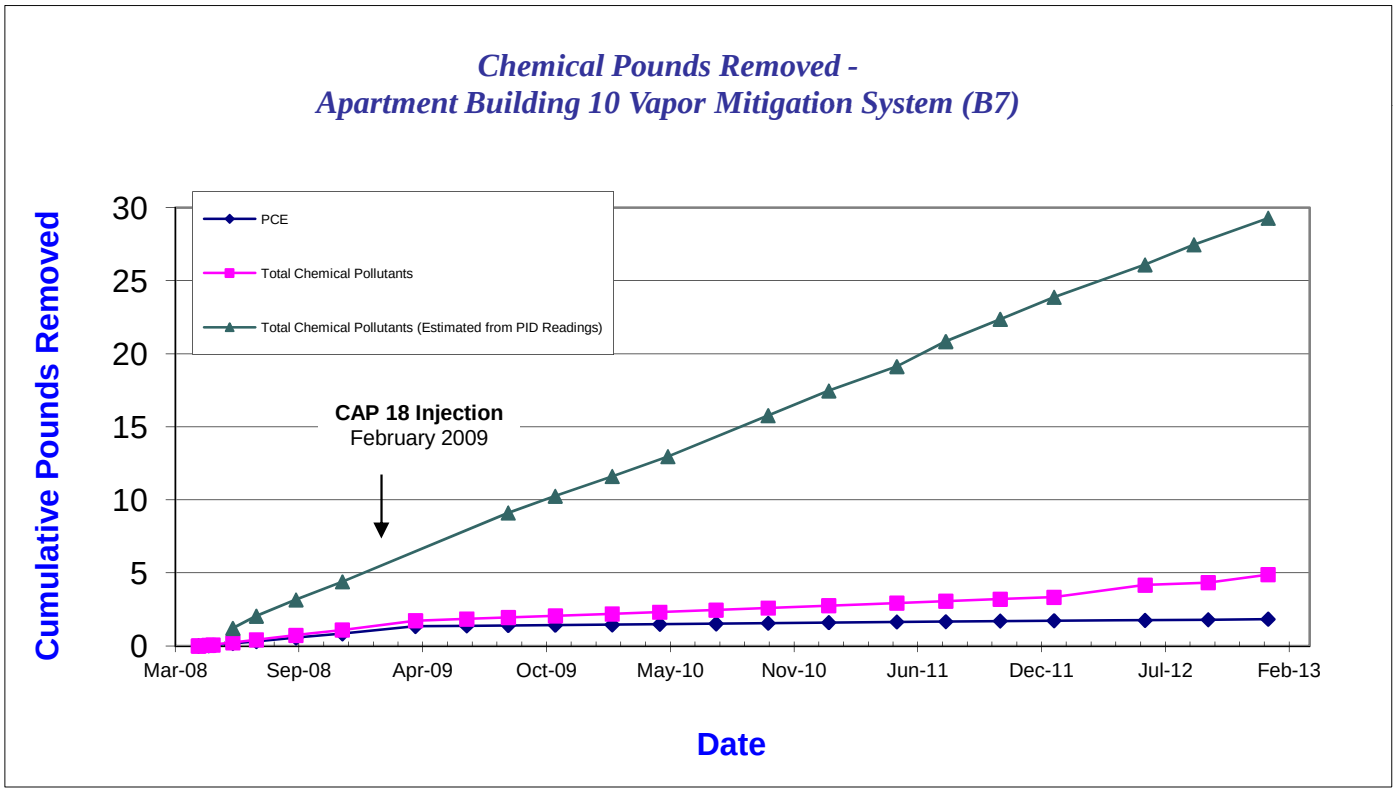
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-6 (Apartments, Bldg. 6)
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

14





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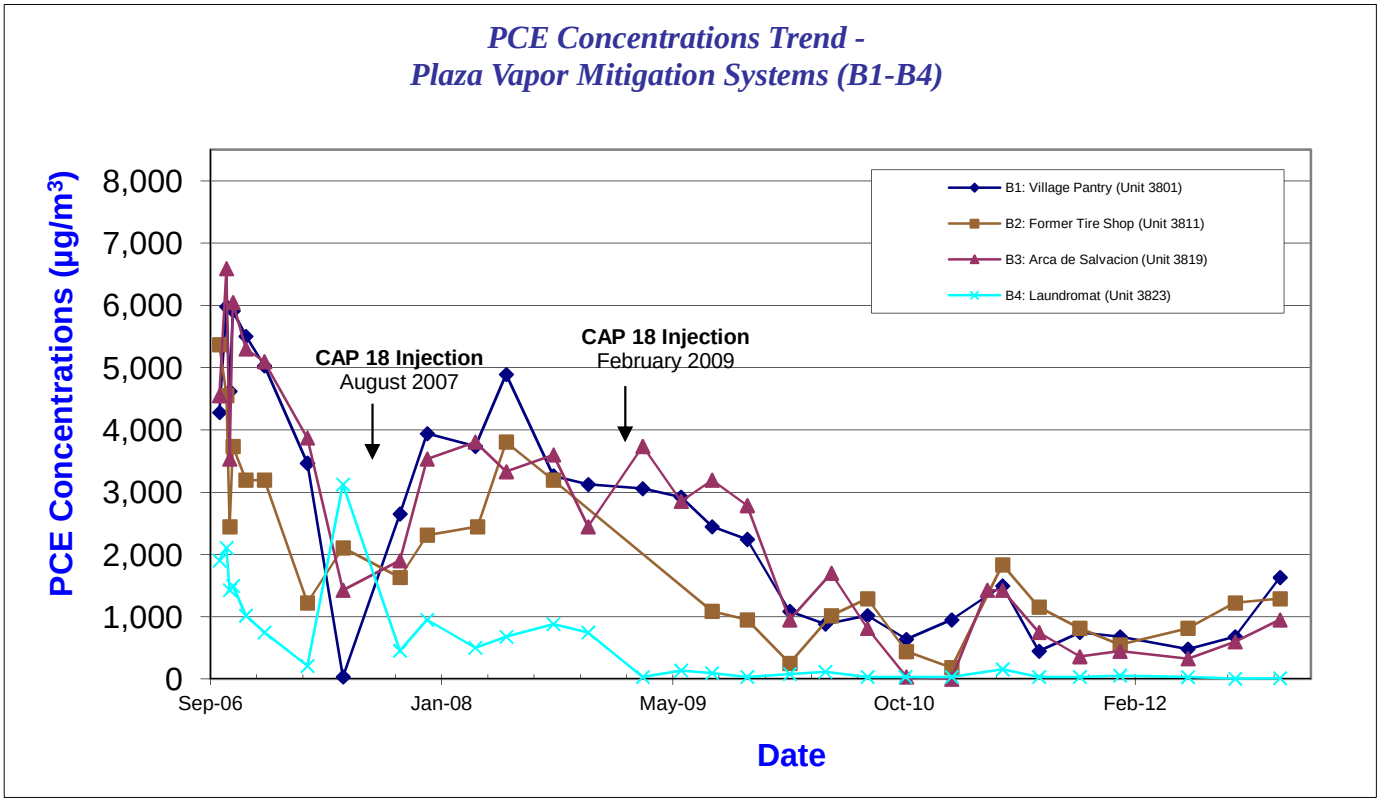
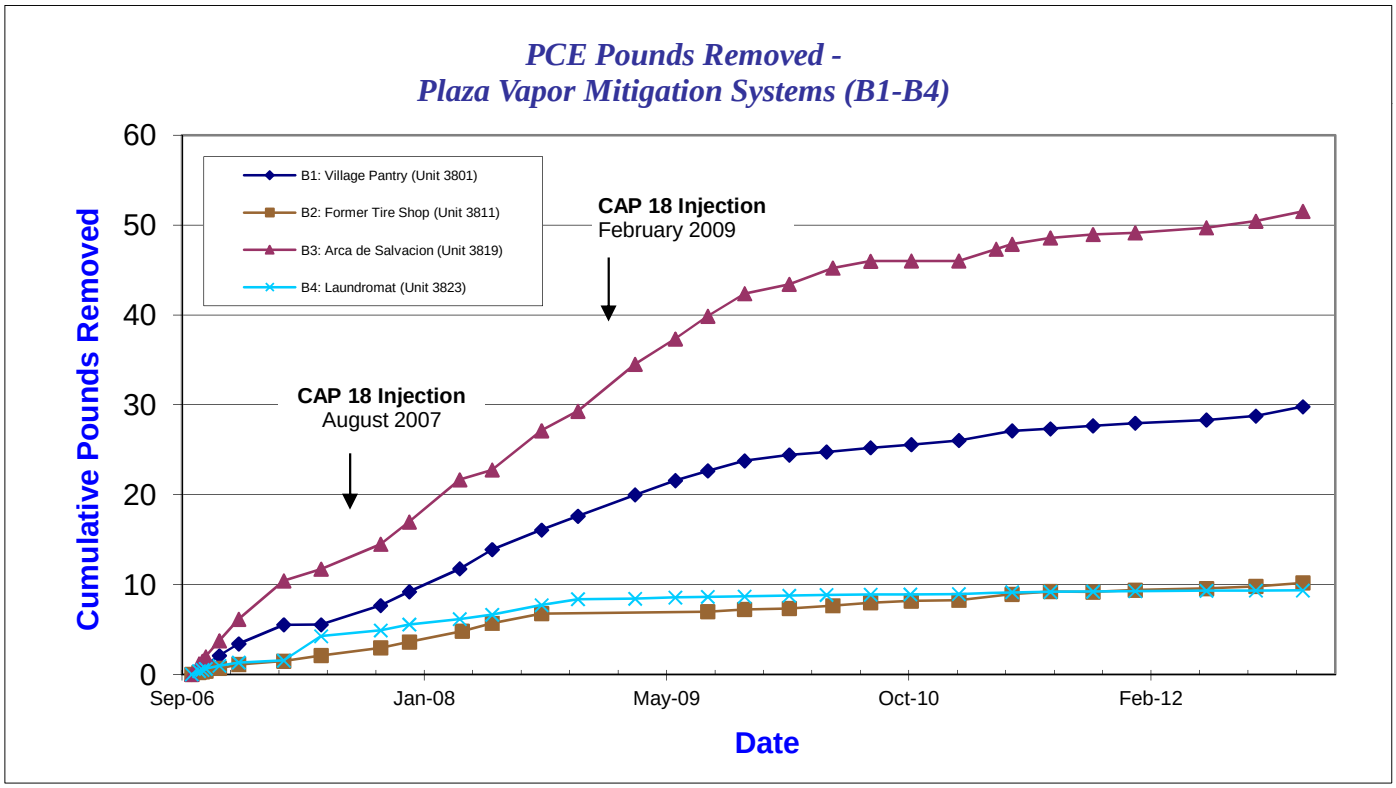
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-7 (Apartments, Bldg. 10)
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

15





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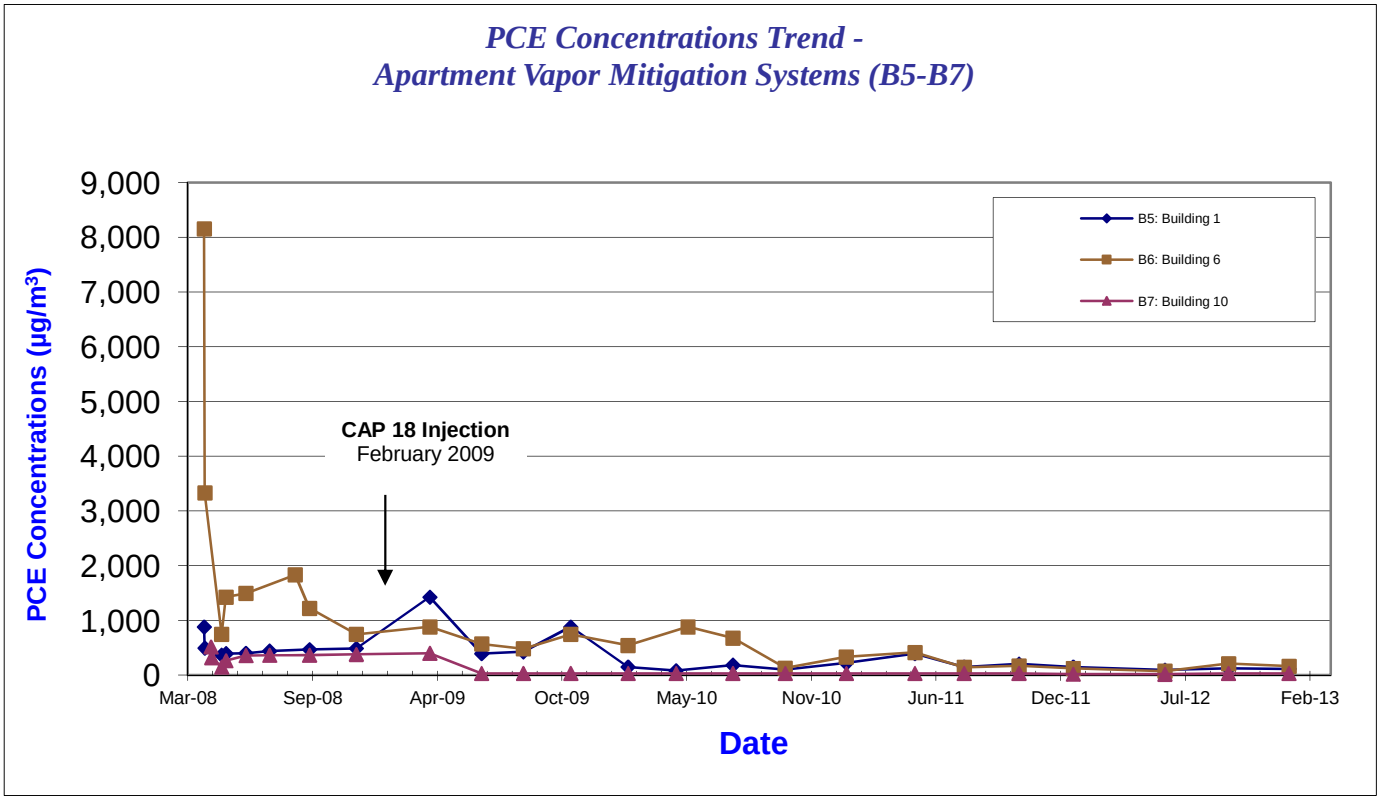
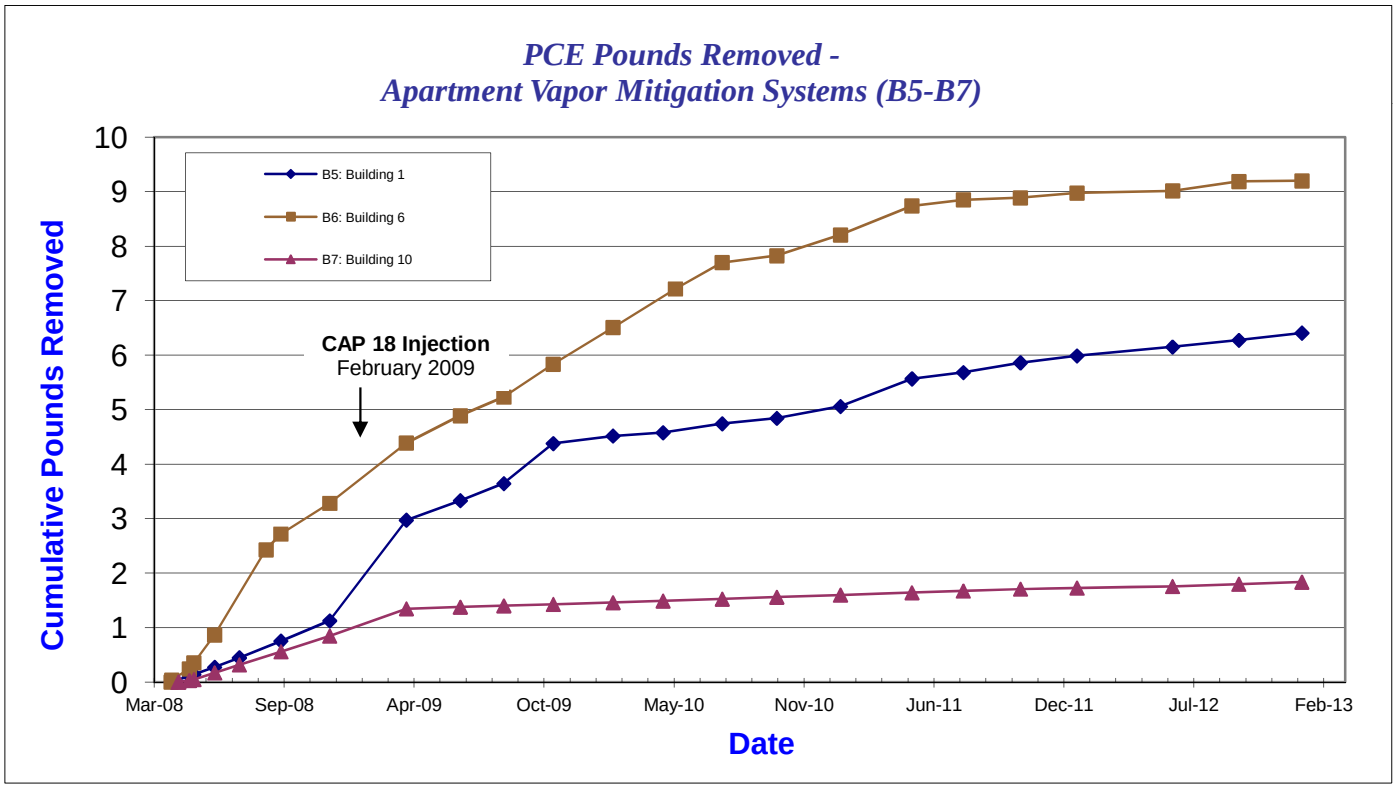
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation Systems B1-B4
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

16





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Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	1/15/2013
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation Systems B5-B7 (Apartments)
Fourth Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

17

APPENDIX A

Laboratory Certificates of Analysis

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

December 03, 2012

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

RE: Project: MI Plaza M01046
Pace Project No.: 5072339

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2012. 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.: 5072339

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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(317)875-5894

SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5072339

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5072339001	**MMW-6D**	Water	11/13/12 10:56	11/15/12 10:50
5072339002	**MMW-4D**	Water	11/13/12 11:31	11/15/12 10:50
5072339003	**MMW-13D**	Water	11/13/12 12:03	11/15/12 10:50
5072339004	**MMW-11D**	Water	11/13/12 12:58	11/15/12 10:50
5072339005	**MMW-11S**	Water	11/13/12 13:26	11/15/12 10:50
5072339006	**MMW-12S**	Water	11/13/12 13:56	11/15/12 10:50
5072339007	**MMW-14D**	Water	11/13/12 14:27	11/15/12 10:50
5072339008	**MMW-P-9S**	Water	11/13/12 15:06	11/15/12 10:50
5072339009	**MMW-P-9D**	Water	11/13/12 15:28	11/15/12 10:50
5072339010	**MMW-C-02S**	Water	11/13/12 15:55	11/15/12 10:50
5072339011	**Trip Blank**	Water	11/13/12 08:00	11/15/12 10:50
5072339012	**MMW-P-03S**	Water	11/14/12 09:32	11/15/12 10:50
5072339013	**MMW-P-03D**	Water	11/14/12 10:00	11/15/12 10:50
5072339014	**Dup 1**	Water	11/14/12 08:00	11/15/12 10:50
5072339015	**MMW-P-02**	Water	11/14/12 10:44	11/15/12 10:50
5072339016	**MMW-P-05**	Water	11/14/12 11:30	11/15/12 10:50
5072339017	**MMW-P-10S**	Water	11/14/12 12:06	11/15/12 10:50
5072339018	**MMW-P-10D**	Water	11/14/12 12:40	11/15/12 10:50
5072339019	**MMW-P-08**	Water	11/14/12 13:18	11/15/12 10:50
5072339020	**MMW-P-07**	Water	11/14/12 13:47	11/15/12 10:50
5072339021	**MMW-P-01**	Water	11/14/12 14:21	11/15/12 10:50
5072339022	**MMW-P-06**	Water	11/14/12 14:55	11/15/12 10:50
5072339023	**MMW-9S**	Water	11/14/12 15:36	11/15/12 10:50

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5072339

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5072339001	**MMW-6D**	EPA 8260	JLZ	18
5072339002	**MMW-4D**	EPA 8260	ALA	18
5072339003	**MMW-13D**	EPA 8260	ALA	18
5072339004	**MMW-11D**	EPA 8260	ALA	18
5072339005	**MMW-11S**	EPA 8260	JLZ	18
5072339006	**MMW-12S**	EPA 8260	ALA	18
5072339007	**MMW-14D**	EPA 8260	ALA, JLZ	18
5072339008	**MMW-P-9S**	EPA 8260	JLZ	18
5072339009	**MMW-P-9D**	EPA 8260	ALA	18
5072339010	**MMW-C-02S**	EPA 8260	ALA	18
5072339011	**Trip Blank**	EPA 8260	JLZ	18
5072339012	**MMW-P-03S**	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339013	**MMW-P-03D**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339014	**Dup 1**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339015	**MMW-P-02**	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339016	**MMW-P-05**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339017	**MMW-P-10S**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339018	**MMW-P-10D**	EPA 8260	GRM	18
		SM 5310C	GR1	1

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5072339

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339019	**MMW-P-08**	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339020	**MMW-P-07**	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339021	**MMW-P-01**	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339022	**MMW-P-06**	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072339023	**MMW-9S**	EPA 8260	GRM	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-6D **Lab ID: 5072339001** Collected: 11/13/12 10:56 Received: 11/15/12 10:50 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		11/27/12 14:51	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 14:51	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 14:51	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 14:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 14:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 14:51	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 14:51	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 14:51	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 14:51	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 14:51	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 14:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 14:51	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 14:51	79-01-6	
Vinyl chloride	**57.5**	ug/L	2.0	1		11/27/12 14:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 14:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/27/12 14:51	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/27/12 14:51	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/27/12 14:51	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-4D **Lab ID: 5072339002** Collected: 11/13/12 11:31 Received: 11/15/12 10:50 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		11/21/12 16:53	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/12 16:53	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/21/12 16:53	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/12 16:53	75-35-4	
cis-1,2-Dichloroethene	**463**	ug/L	50.0	10		11/21/12 17:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/12 16:53	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/21/12 16:53	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/21/12 16:53	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/21/12 16:53	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/12 16:53	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/12 16:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/12 16:53	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/21/12 16:53	79-01-6	
Vinyl chloride	**164**	ug/L	2.0	1		11/21/12 16:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/21/12 16:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		11/21/12 16:53	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		11/21/12 16:53	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/21/12 16:53	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-13D **Lab ID: 5072339003** Collected: 11/13/12 12:03 Received: 11/15/12 10:50 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		11/21/12 18:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/12 18:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/21/12 18:00	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/12 18:00	75-35-4	
cis-1,2-Dichloroethene	**765**	ug/L	50.0	10		11/21/12 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/12 18:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/21/12 18:00	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/21/12 18:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/21/12 18:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/12 18:00	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/12 18:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/12 18:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/21/12 18:00	79-01-6	
Vinyl chloride	**135**	ug/L	2.0	1		11/21/12 18:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/21/12 18:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		11/21/12 18:00	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		11/21/12 18:00	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		11/21/12 18:00	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-11D **Lab ID: 5072339004** Collected: 11/13/12 12:58 Received: 11/15/12 10:50 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		11/21/12 19:08	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/12 19:08	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/21/12 19:08	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/12 19:08	75-35-4	
cis-1,2-Dichloroethene	**309**	ug/L	50.0	10		11/21/12 19:42	156-59-2	
trans-1,2-Dichloroethene	**14.6**	ug/L	5.0	1		11/21/12 19:08	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/21/12 19:08	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/21/12 19:08	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/21/12 19:08	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/12 19:08	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/12 19:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/12 19:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/21/12 19:08	79-01-6	
Vinyl chloride	**2.9**	ug/L	2.0	1		11/21/12 19:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/21/12 19:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		11/21/12 19:08	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		11/21/12 19:08	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		11/21/12 19:08	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-11S **Lab ID: 5072339005** Collected: 11/13/12 13:26 Received: 11/15/12 10:50 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		11/27/12 15:24	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 15:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 15:24	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 15:24	75-35-4	
cis-1,2-Dichloroethene	**27.6**	ug/L	5.0	1		11/27/12 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 15:24	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 15:24	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 15:24	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 15:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 15:24	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 15:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 15:24	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 15:24	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/12 15:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 15:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		11/27/12 15:24	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		11/27/12 15:24	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/27/12 15:24	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-12S **Lab ID: 5072339006** Collected: 11/13/12 13:56 Received: 11/15/12 10:50 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		11/21/12 20:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/12 20:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/21/12 20:49	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/12 20:49	75-35-4	
cis-1,2-Dichloroethene	**84.3**	ug/L	5.0	1		11/21/12 20:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/12 20:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/21/12 20:49	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/21/12 20:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/21/12 20:49	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/12 20:49	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/12 20:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/12 20:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/21/12 20:49	79-01-6	
Vinyl chloride	**5.3**	ug/L	2.0	1		11/21/12 20:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/21/12 20:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/21/12 20:49	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		11/21/12 20:49	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		11/21/12 20:49	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-14D **Lab ID: 5072339007** Collected: 11/13/12 14:27 Received: 11/15/12 10:50 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		11/27/12 15:57	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 15:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 15:57	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 15:57	75-35-4	
cis-1,2-Dichloroethene	**1010**	ug/L	50.0	10		11/21/12 21:57	156-59-2	
trans-1,2-Dichloroethene	**10**	ug/L	5.0	1		11/27/12 15:57	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 15:57	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 15:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 15:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 15:57	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 15:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 15:57	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 15:57	79-01-6	
Vinyl chloride	**105**	ug/L	2.0	1		11/27/12 15:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 15:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		11/27/12 15:57	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		11/27/12 15:57	460-00-4	
Toluene-d8 (S)	95	%.	81-114	1		11/27/12 15:57	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-9S **Lab ID: 5072339008** Collected: 11/13/12 15:06 Received: 11/15/12 10:50 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		11/27/12 16:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 16:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 16:30	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 16:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 16:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 16:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 16:30	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 16:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 16:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 16:30	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 16:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 16:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 16:30	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/12 16:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 16:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/27/12 16:30	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		11/27/12 16:30	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/27/12 16:30	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-9D **Lab ID: 5072339009** Collected: 11/13/12 15:28 Received: 11/15/12 10:50 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		11/21/12 22:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/12 22:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/21/12 22:31	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/12 22:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/12 22:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/12 22:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/21/12 22:31	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/21/12 22:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/21/12 22:31	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/12 22:31	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/12 22:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/12 22:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/21/12 22:31	79-01-6	
Vinyl chloride	**61.6**	ug/L	2.0	1		11/21/12 22:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/21/12 22:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		11/21/12 22:31	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/21/12 22:31	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		11/21/12 22:31	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-C-02S **Lab ID: 5072339010** Collected: 11/13/12 15:55 Received: 11/15/12 10:50 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		11/21/12 23:05	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/12 23:05	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/21/12 23:05	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/12 23:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/12 23:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/12 23:05	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/21/12 23:05	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/21/12 23:05	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/21/12 23:05	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/12 23:05	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/12 23:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/12 23:05	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/21/12 23:05	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/21/12 23:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/21/12 23:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		11/21/12 23:05	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/21/12 23:05	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		11/21/12 23:05	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: Trip Blank **Lab ID: 5072339011** Collected: 11/13/12 08:00 Received: 11/15/12 10:50 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		11/27/12 17:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 17:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 17:03	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 17:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 17:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 17:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 17:03	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 17:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 17:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 17:03	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 17:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 17:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 17:03	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/27/12 17:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 17:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		11/27/12 17:03	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		11/27/12 17:03	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/27/12 17:03	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-03S **Lab ID: 5072339012** Collected: 11/14/12 09:32 Received: 11/15/12 10:50 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		11/28/12 01:24	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 01:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 01:24	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 01:24	75-35-4	
cis-1,2-Dichloroethene	**12.3**	ug/L	5.0	1		11/28/12 01:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 01:24	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 01:24	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 01:24	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 01:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/12 01:24	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 01:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 01:24	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 01:24	79-01-6	
Vinyl chloride	**113**	ug/L	2.0	1		11/28/12 01:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 01:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		11/28/12 01:24	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		11/28/12 01:24	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		11/28/12 01:24	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	0.30	1		11/17/12 13:57	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**32.0**	mg/L	12.5	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:04		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:04		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-03D **Lab ID: 5072339013** Collected: 11/14/12 10:00 Received: 11/15/12 10:50 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		11/27/12 17:36	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 17:36	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 17:36	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 17:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 17:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 17:36	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 17:36	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 17:36	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 17:36	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 17:36	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 17:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 17:36	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 17:36	79-01-6	
Vinyl chloride	**17.3**	ug/L	2.0	1		11/27/12 17:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 17:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		11/27/12 17:36	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		11/27/12 17:36	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/27/12 17:36	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**11.3**	mg/L	0.30	1		11/17/12 14:21	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**8.8**	mg/L	5.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:05		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:05		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: Dup 1 **Lab ID: 5072339014** Collected: 11/14/12 08:00 Received: 11/15/12 10:50 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		11/27/12 18:08	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 18:08	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 18:08	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 18:08	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 18:08	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 18:08	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 18:08	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 18:08	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 18:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 18:08	79-01-6	
Vinyl chloride	**20.0**	ug/L	2.0	1		11/27/12 18:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 18:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		11/27/12 18:08	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		11/27/12 18:08	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/27/12 18:08	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**11.1**	mg/L	0.30	1		11/17/12 14:45	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**7.9**	mg/L	5.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 07:58		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 07:58		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-02 **Lab ID: 5072339015** Collected: 11/14/12 10:44 Received: 11/15/12 10:50 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		11/28/12 01:57	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 01:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 01:57	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 01:57	75-35-4	
cis-1,2-Dichloroethene	**54.0**	ug/L	5.0	1		11/28/12 01:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 01:57	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 01:57	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 01:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 01:57	91-20-3	
Tetrachloroethene	**6.7**	ug/L	5.0	1		11/28/12 01:57	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 01:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 01:57	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 01:57	79-01-6	
Vinyl chloride	**803**	ug/L	20.0	10		11/28/12 02:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 01:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/28/12 01:57	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		11/28/12 01:57	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		11/28/12 01:57	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.9**	mg/L	0.30	1		11/17/12 15:18	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**144**	mg/L	25.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:10		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:10		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-05 **Lab ID: 5072339016** Collected: 11/14/12 11:30 Received: 11/15/12 10:50 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		11/27/12 18:41	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 18:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 18:41	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 18:41	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 18:41	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 18:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 18:41	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 18:41	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 18:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 18:41	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 18:41	79-01-6	
Vinyl chloride	**151**	ug/L	2.0	1		11/27/12 18:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 18:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/27/12 18:41	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		11/27/12 18:41	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		11/27/12 18:41	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.2**	mg/L	0.30	1		11/17/12 16:36	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**86.8**	mg/L	12.5	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:13		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:13		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-10S **Lab ID: 5072339017** Collected: 11/14/12 12:06 Received: 11/15/12 10:50 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		11/27/12 19:14	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/27/12 19:14	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/27/12 19:14	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/27/12 19:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 19:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/27/12 19:14	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/27/12 19:14	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/27/12 19:14	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/27/12 19:14	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/27/12 19:14	127-18-4	
Toluene	ND	ug/L	5.0	1		11/27/12 19:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/27/12 19:14	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/27/12 19:14	79-01-6	
Vinyl chloride	**2.3**	ug/L	2.0	1		11/27/12 19:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/27/12 19:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		11/27/12 19:14	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		11/27/12 19:14	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		11/27/12 19:14	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.1**	mg/L	0.30	1		11/17/12 17:08	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**26.6**	mg/L	5.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:14		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:14		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-10D **Lab ID: 5072339018** Collected: 11/14/12 12:40 Received: 11/15/12 10:50 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		11/28/12 03:02	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 03:02	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 03:02	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 03:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 03:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 03:02	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 03:02	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 03:02	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 03:02	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/12 03:02	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 03:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 03:02	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 03:02	79-01-6	
Vinyl chloride	**964**	ug/L	20.0	10		11/28/12 03:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 03:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/28/12 03:02	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		11/28/12 03:02	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		11/28/12 03:02	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**5.0**	mg/L	0.30	1		11/17/12 17:33	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**84.5**	mg/L	25.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:15		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:15		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-08 **Lab ID: 5072339019** Collected: 11/14/12 13:18 Received: 11/15/12 10:50 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		11/28/12 04:07	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 04:07	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 04:07	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 04:07	75-35-4	
cis-1,2-Dichloroethene	**18.4**	ug/L	5.0	1		11/28/12 04:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 04:07	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 04:07	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 04:07	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 04:07	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/12 04:07	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 04:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 04:07	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 04:07	79-01-6	
Vinyl chloride	**436**	ug/L	20.0	10		11/28/12 04:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 04:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/28/12 04:07	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		11/28/12 04:07	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		11/28/12 04:07	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.2**	mg/L	0.30	1		11/17/12 17:58	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**36.3**	mg/L	5.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:18		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:18		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-07 **Lab ID: 5072339020** Collected: 11/14/12 13:47 Received: 11/15/12 10:50 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		11/28/12 05:11	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 05:11	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 05:11	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 05:11	75-35-4	
cis-1,2-Dichloroethene	**42.2**	ug/L	5.0	1		11/28/12 05:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 05:11	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 05:11	100-41-4	
Methylene Chloride	**5.1**	ug/L	5.0	1		11/28/12 05:11	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 05:11	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/12 05:11	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 05:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 05:11	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 05:11	79-01-6	
Vinyl chloride	**607**	ug/L	20.0	10		11/28/12 05:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 05:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/28/12 05:11	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		11/28/12 05:11	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		11/28/12 05:11	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	0.30	1		11/17/12 18:31	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**81.0**	mg/L	12.5	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:19		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:19		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-01 **Lab ID: 5072339021** Collected: 11/14/12 14:21 Received: 11/15/12 10:50 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		11/28/12 06:16	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 06:16	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 06:16	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 06:16	75-35-4	
cis-1,2-Dichloroethene	**619**	ug/L	50.0	10		11/28/12 06:49	156-59-2	
trans-1,2-Dichloroethene	**14.1**	ug/L	5.0	1		11/28/12 06:16	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 06:16	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 06:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 06:16	91-20-3	
Tetrachloroethene	**24.5**	ug/L	5.0	1		11/28/12 06:16	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 06:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 06:16	71-55-6	
Trichloroethene	**13.1**	ug/L	5.0	1		11/28/12 06:16	79-01-6	
Vinyl chloride	**3060**	ug/L	200	100		11/28/12 22:06	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 06:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		11/28/12 06:16	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		11/28/12 06:16	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		11/28/12 06:16	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.2**	mg/L	0.30	1		11/17/12 19:03	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**106**	mg/L	25.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:29		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:29		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-P-06 **Lab ID: 5072339022** Collected: 11/14/12 14:55 Received: 11/15/12 10:50 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		11/28/12 07:21	71-43-2	1d,D4
Carbon tetrachloride	ND	ug/L	50.0	10		11/28/12 07:21	56-23-5	
Chloroform	ND	ug/L	50.0	10		11/28/12 07:21	67-66-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		11/28/12 07:21	75-35-4	
cis-1,2-Dichloroethene	**4640**	ug/L	500	100		11/28/12 07:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/28/12 07:21	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		11/28/12 07:21	100-41-4	
Methylene Chloride	ND	ug/L	50.0	10		11/28/12 07:21	75-09-2	
Naphthalene	ND	ug/L	50.0	10		11/28/12 07:21	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		11/28/12 07:21	127-18-4	
Toluene	ND	ug/L	50.0	10		11/28/12 07:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/28/12 07:21	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		11/28/12 07:21	79-01-6	
Vinyl chloride	**6170**	ug/L	200	100		11/28/12 07:54	75-01-4	
Xylene (Total)	ND	ug/L	100	10		11/28/12 07:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	10		11/28/12 07:21	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	10		11/28/12 07:21	460-00-4	
Toluene-d8 (S)	98	%.	81-114	10		11/28/12 07:21	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.3**	mg/L	0.30	1		11/17/12 19:26	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**82.5**	mg/L	25.0	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:32		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:32		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072339

Sample: MMW-9S **Lab ID: 5072339023** Collected: 11/14/12 15:36 Received: 11/15/12 10:50 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		11/28/12 08:27	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 08:27	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 08:27	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 08:27	75-35-4	
cis-1,2-Dichloroethene	**2000**	ug/L	50.0	10		11/28/12 10:04	156-59-2	
trans-1,2-Dichloroethene	**58.0**	ug/L	5.0	1		11/28/12 08:27	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 08:27	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 08:27	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 08:27	91-20-3	
Tetrachloroethene	**9.8**	ug/L	5.0	1		11/28/12 08:27	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 08:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 08:27	71-55-6	
Trichloroethene	**5.0**	ug/L	5.0	1		11/28/12 08:27	79-01-6	
Vinyl chloride	**893**	ug/L	20.0	10		11/28/12 10:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 08:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		11/28/12 08:27	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		11/28/12 08:27	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		11/28/12 08:27	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.7**	mg/L	0.30	1		11/17/12 10:03	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**62.5**	mg/L	62.5	1		11/16/12 16:43	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 08:39		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 08:39		

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

QC Batch: MSV/48010 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5072339002, 5072339003, 5072339004, 5072339006, 5072339009, 5072339010

METHOD BLANK: 834634 Matrix: Water
Associated Lab Samples: 5072339002, 5072339003, 5072339004, 5072339006, 5072339009, 5072339010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/21/12 13:28	
1,1-Dichloroethene	ug/L	ND	5.0	11/21/12 13:28	
Benzene	ug/L	ND	5.0	11/21/12 13:28	
Carbon tetrachloride	ug/L	ND	5.0	11/21/12 13:28	
Chloroform	ug/L	ND	5.0	11/21/12 13:28	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/21/12 13:28	
Ethylbenzene	ug/L	ND	5.0	11/21/12 13:28	
Methylene Chloride	ug/L	ND	5.0	11/21/12 13:28	
Naphthalene	ug/L	ND	5.0	11/21/12 13:28	
Tetrachloroethene	ug/L	ND	5.0	11/21/12 13:28	
Toluene	ug/L	ND	5.0	11/21/12 13:28	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/21/12 13:28	
Trichloroethene	ug/L	ND	5.0	11/21/12 13:28	
Vinyl chloride	ug/L	ND	2.0	11/21/12 13:28	
Xylene (Total)	ug/L	ND	10.0	11/21/12 13:28	
4-Bromofluorobenzene (S)	%.	103	72-125	11/21/12 13:28	
Dibromofluoromethane (S)	%.	102	83-123	11/21/12 13:28	
Toluene-d8 (S)	%.	96	81-114	11/21/12 13:28	

LABORATORY CONTROL SAMPLE: 834635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.7	107	69-126	
1,1-Dichloroethene	ug/L	50	46.9	94	75-145	
Benzene	ug/L	50	47.8	96	76-123	
Carbon tetrachloride	ug/L	50	50.2	100	65-125	
Chloroform	ug/L	50	52.8	106	73-122	
cis-1,2-Dichloroethene	ug/L	50	55.8	112	79-129	
Ethylbenzene	ug/L	50	49.0	98	75-120	
Methylene Chloride	ug/L	50	54.8	110	61-138	
Naphthalene	ug/L	50	54.3	109	62-130	
Tetrachloroethene	ug/L	50	50.8	102	57-125	
Toluene	ug/L	50	46.1	92	72-124	
trans-1,2-Dichloroethene	ug/L	50	55.4	111	71-145	
Trichloroethene	ug/L	50	55.2	110	77-122	
Vinyl chloride	ug/L	50	50.6	101	61-146	
Xylene (Total)	ug/L	150	146	97	72-126	
4-Bromofluorobenzene (S)	%.			103	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			94	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

QC Batch: MSV/48074 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5072339001, 5072339005, 5072339007, 5072339008, 5072339011, 5072339013, 5072339014, 5072339016, 5072339017

METHOD BLANK: 835637 Matrix: Water
Associated Lab Samples: 5072339001, 5072339005, 5072339007, 5072339008, 5072339011, 5072339013, 5072339014, 5072339016, 5072339017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/27/12 12:07	
1,1-Dichloroethene	ug/L	ND	5.0	11/27/12 12:07	
Benzene	ug/L	ND	5.0	11/27/12 12:07	
Carbon tetrachloride	ug/L	ND	5.0	11/27/12 12:07	
Chloroform	ug/L	ND	5.0	11/27/12 12:07	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/27/12 12:07	
Ethylbenzene	ug/L	ND	5.0	11/27/12 12:07	
Methylene Chloride	ug/L	ND	5.0	11/27/12 12:07	
Naphthalene	ug/L	ND	5.0	11/27/12 12:07	
Tetrachloroethene	ug/L	ND	5.0	11/27/12 12:07	
Toluene	ug/L	ND	5.0	11/27/12 12:07	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/27/12 12:07	
Trichloroethene	ug/L	ND	5.0	11/27/12 12:07	
Vinyl chloride	ug/L	ND	2.0	11/27/12 12:07	
Xylene (Total)	ug/L	ND	10.0	11/27/12 12:07	
4-Bromofluorobenzene (S)	%.	99	72-125	11/27/12 12:07	
Dibromofluoromethane (S)	%.	99	83-123	11/27/12 12:07	
Toluene-d8 (S)	%.	100	81-114	11/27/12 12:07	

LABORATORY CONTROL SAMPLE: 835638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.9	90	69-126	
1,1-Dichloroethene	ug/L	50	44.9	90	75-145	
Benzene	ug/L	50	47.1	94	76-123	
Carbon tetrachloride	ug/L	50	39.6	79	65-125	
Chloroform	ug/L	50	46.1	92	73-122	
cis-1,2-Dichloroethene	ug/L	50	44.3	89	79-129	
Ethylbenzene	ug/L	50	45.1	90	75-120	
Methylene Chloride	ug/L	50	46.5	93	61-138	
Naphthalene	ug/L	50	46.7	93	62-130	
Tetrachloroethene	ug/L	50	44.2	88	57-125	
Toluene	ug/L	50	46.6	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	43.2	86	71-145	
Trichloroethene	ug/L	50	43.3	87	77-122	
Vinyl chloride	ug/L	50	45.7	91	61-146	
Xylene (Total)	ug/L	150	131	88	72-126	
4-Bromofluorobenzene (S)	%.			96	72-125	
Dibromofluoromethane (S)	%.			103	83-123	
Toluene-d8 (S)	%.			97	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

QC Batch: MSV/48100 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5072339012, 5072339015, 5072339018, 5072339019, 5072339020, 5072339021, 5072339022, 5072339023

METHOD BLANK: 835898 Matrix: Water
Associated Lab Samples: 5072339012, 5072339015, 5072339018, 5072339019, 5072339020, 5072339021, 5072339022, 5072339023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/12 00:52	
1,1-Dichloroethene	ug/L	ND	5.0	11/28/12 00:52	
Benzene	ug/L	ND	5.0	11/28/12 00:52	
Carbon tetrachloride	ug/L	ND	5.0	11/28/12 00:52	
Chloroform	ug/L	ND	5.0	11/28/12 00:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/12 00:52	
Ethylbenzene	ug/L	ND	5.0	11/28/12 00:52	
Methylene Chloride	ug/L	ND	5.0	11/28/12 00:52	
Naphthalene	ug/L	ND	5.0	11/28/12 00:52	
Tetrachloroethene	ug/L	ND	5.0	11/28/12 00:52	
Toluene	ug/L	ND	5.0	11/28/12 00:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/12 00:52	
Trichloroethene	ug/L	ND	5.0	11/28/12 00:52	
Vinyl chloride	ug/L	ND	2.0	11/28/12 00:52	
Xylene (Total)	ug/L	ND	10.0	11/28/12 00:52	
4-Bromofluorobenzene (S)	%.	98	72-125	11/28/12 00:52	
Dibromofluoromethane (S)	%.	98	83-123	11/28/12 00:52	
Toluene-d8 (S)	%.	99	81-114	11/28/12 00:52	

LABORATORY CONTROL SAMPLE: 835899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.9	94	69-126	
1,1-Dichloroethene	ug/L	50	52.8	106	75-145	
Benzene	ug/L	50	52.4	105	76-123	
Carbon tetrachloride	ug/L	50	41.2	82	65-125	
Chloroform	ug/L	50	53.7	107	73-122	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	79-129	
Ethylbenzene	ug/L	50	51.9	104	75-120	
Methylene Chloride	ug/L	50	48.5	97	61-138	
Naphthalene	ug/L	50	48.1	96	62-130	
Tetrachloroethene	ug/L	50	50.6	101	57-125	
Toluene	ug/L	50	50.6	101	72-124	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	71-145	
Trichloroethene	ug/L	50	49.0	98	77-122	
Vinyl chloride	ug/L	50	59.7	119	61-146	
Xylene (Total)	ug/L	150	153	102	72-126	
4-Bromofluorobenzene (S)	%.			103	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			98	81-114	

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Pace Analytical Services, Inc.
7726 Moller Road
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(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 835900 835901

Parameter	Units	5072339023 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	45.3	44.0	91	88	37-136	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	51.4	48.5	103	97	54-152	6	20	
Benzene	ug/L	ND	50	50	51.6	48.9	103	98	52-134	5	20	
Carbon tetrachloride	ug/L	ND	50	50	38.9	40.1	78	80	26-136	3	20	
Chloroform	ug/L	ND	50	50	56.0	53.2	112	106	50-134	5	20	
cis-1,2-Dichloroethene	ug/L	2000	50	50	1940	1810	-121	-371	48-145	7	20	M0
Ethylbenzene	ug/L	ND	50	50	52.3	49.2	105	98	29-132	6	20	
Methylene Chloride	ug/L	ND	50	50	56.2	54.3	108	104	47-141	3	20	
Naphthalene	ug/L	ND	50	50	47.6	44.8	95	90	40-124	6	20	
Tetrachloroethene	ug/L	9.8	50	50	59.8	56.6	100	93	30-124	6	20	
Toluene	ug/L	ND	50	50	51.3	47.8	103	96	42-130	7	20	
trans-1,2-Dichloroethene	ug/L	58.0	50	50	98.5	92.9	81	70	48-144	6	20	
Trichloroethene	ug/L	5.0	50	50	52.5	50.1	95	90	44-130	5	20	
Vinyl chloride	ug/L	893	50	50	810	764	-166	-259	45-159	6	20	M0
Xylene (Total)	ug/L	ND	150	150	151	144	101	96	29-131	5	20	
4-Bromofluorobenzene (S)	%.						105	105	72-125		20	
Dibromofluoromethane (S)	%.						101	103	83-123		20	
Toluene-d8 (S)	%.						99	98	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

QC Batch: OHIO/5134 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5072339012, 5072339013, 5072339014, 5072339015, 5072339016, 5072339017, 5072339018, 5072339019, 5072339020, 5072339021, 5072339022, 5072339023

METHOD BLANK: 832582 Matrix: Water
Associated Lab Samples: 5072339012, 5072339013, 5072339014, 5072339015, 5072339016, 5072339017, 5072339018, 5072339019, 5072339020, 5072339021, 5072339022, 5072339023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	11/17/12 09:09	N2

LABORATORY CONTROL SAMPLE: 832583

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: 832585 832586

Parameter	Units	5072339023 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	4.7	4	4	8.9	8.8	104	102	75-125	.5	20	N2

SAMPLE DUPLICATE: 832584

Parameter	Units	5072339023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	4.7	4.7	2	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

QC Batch: WET/10487 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5072339012, 5072339013, 5072339014, 5072339015, 5072339016, 5072339017, 5072339018, 5072339019, 5072339020, 5072339021, 5072339022, 5072339023

METHOD BLANK: 832398 Matrix: Water
Associated Lab Samples: 5072339012, 5072339013, 5072339014, 5072339015, 5072339016, 5072339017, 5072339018, 5072339019, 5072339020, 5072339021, 5072339022, 5072339023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	11/16/12 16:43	N2

LABORATORY CONTROL SAMPLE: 832399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.9	100	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 832639 832640

Parameter	Units	5072339023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	62.5	250	250	320	330	103	107	90-110	3	20	N2

MATRIX SPIKE SAMPLE: 832641

Parameter	Units	5072122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	94.5	100	179	84	90-110	M0,N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

QC Batch: WETA/8849 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5072339012, 5072339013, 5072339014, 5072339015, 5072339016, 5072339017, 5072339018, 5072339019, 5072339020

METHOD BLANK: 831775 | Matrix: Water
Associated Lab Samples: 5072339012, 5072339013, 5072339014, 5072339015, 5072339016, 5072339017, 5072339018, 5072339019, 5072339020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	11/16/12 07:56	
Nitrogen, Nitrite	mg/L	ND	0.10	11/16/12 07:56	

LABORATORY CONTROL SAMPLE: 831776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	98	90-110	
Nitrogen, Nitrite	mg/L	2	1.9	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 831777 831778

Parameter	Units	5072308003 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	0.084J	2	2	1.8	1.8	84	84	90-110	.2	20	M3
Nitrogen, Nitrite	mg/L	ND	2	2	1.7	1.7	84	85	90-110	.6	20	M3

MATRIX SPIKE SAMPLE: 831779

Parameter	Units	5072339020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.7	82	90-110	M0
Nitrogen, Nitrite	mg/L	ND	2	1.7	83	90-110	M0

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072339

QC Batch: WETA/8850 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5072339021, 5072339022, 5072339023

METHOD BLANK: 831780 Matrix: Water
Associated Lab Samples: 5072339021, 5072339022, 5072339023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	11/16/12 08:25	
Nitrogen, Nitrite	mg/L	ND	0.10	11/16/12 08:25	

LABORATORY CONTROL SAMPLE: 831781

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	95	90-110	

MATRIX SPIKE SAMPLE: 831782

Parameter	Units	5072308006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	2.0	100	90-110	
Nitrogen, Nitrite	mg/L	ND	2	1.8	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 831783 831784

Parameter	Units	5072339023 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	1.6	1.7	80	81	90-110	1	20	M3
Nitrogen, Nitrite	mg/L	ND	2	2	1.6	1.6	78	78	90-110	.1	20	M3

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5072339

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 5 ug/L based on the MDL. grm 11-28-12
D4	Sample was diluted due to the presence of high levels of target analytes.
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.: 5072339

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5072339001	**MMW-6D**	EPA 8260	MSV/48074		
5072339002	**MMW-4D**	EPA 8260	MSV/48010		
5072339003	**MMW-13D**	EPA 8260	MSV/48010		
5072339004	**MMW-11D**	EPA 8260	MSV/48010		
5072339005	**MMW-11S**	EPA 8260	MSV/48074		
5072339006	**MMW-12S**	EPA 8260	MSV/48010		
5072339007	**MMW-14D**	EPA 8260	MSV/48074		
5072339008	**MMW-P-9S**	EPA 8260	MSV/48074		
5072339009	**MMW-P-9D**	EPA 8260	MSV/48010		
5072339010	**MMW-C-02S**	EPA 8260	MSV/48010		
5072339011	**Trip Blank**	EPA 8260	MSV/48074		
5072339012	**MMW-P-03S**	EPA 8260	MSV/48100		
5072339013	**MMW-P-03D**	EPA 8260	MSV/48074		
5072339014	**Dup 1**	EPA 8260	MSV/48074		
5072339015	**MMW-P-02**	EPA 8260	MSV/48100		
5072339016	**MMW-P-05**	EPA 8260	MSV/48074		
5072339017	**MMW-P-10S**	EPA 8260	MSV/48074		
5072339018	**MMW-P-10D**	EPA 8260	MSV/48100		
5072339019	**MMW-P-08**	EPA 8260	MSV/48100		
5072339020	**MMW-P-07**	EPA 8260	MSV/48100		
5072339021	**MMW-P-01**	EPA 8260	MSV/48100		
5072339022	**MMW-P-06**	EPA 8260	MSV/48100		
5072339023	**MMW-9S**	EPA 8260	MSV/48100		
5072339012	**MMW-P-03S**	SM 5310C	OHIO/5134		
5072339013	**MMW-P-03D**	SM 5310C	OHIO/5134		
5072339014	**Dup 1**	SM 5310C	OHIO/5134		
5072339015	**MMW-P-02**	SM 5310C	OHIO/5134		
5072339016	**MMW-P-05**	SM 5310C	OHIO/5134		
5072339017	**MMW-P-10S**	SM 5310C	OHIO/5134		
5072339018	**MMW-P-10D**	SM 5310C	OHIO/5134		
5072339019	**MMW-P-08**	SM 5310C	OHIO/5134		
5072339020	**MMW-P-07**	SM 5310C	OHIO/5134		
5072339021	**MMW-P-01**	SM 5310C	OHIO/5134		
5072339022	**MMW-P-06**	SM 5310C	OHIO/5134		
5072339023	**MMW-9S**	SM 5310C	OHIO/5134		
5072339012	**MMW-P-03S**	ASTM D516-90,02	WET/10487		
5072339013	**MMW-P-03D**	ASTM D516-90,02	WET/10487		
5072339014	**Dup 1**	ASTM D516-90,02	WET/10487		
5072339015	**MMW-P-02**	ASTM D516-90,02	WET/10487		
5072339016	**MMW-P-05**	ASTM D516-90,02	WET/10487		
5072339017	**MMW-P-10S**	ASTM D516-90,02	WET/10487		
5072339018	**MMW-P-10D**	ASTM D516-90,02	WET/10487		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5072339

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5072339019	**MMW-P-08**	ASTM D516-90,02	WET/10487		
5072339020	**MMW-P-07**	ASTM D516-90,02	WET/10487		
5072339021	**MMW-P-01**	ASTM D516-90,02	WET/10487		
5072339022	**MMW-P-06**	ASTM D516-90,02	WET/10487		
5072339023	**MMW-9S**	ASTM D516-90,02	WET/10487		
5072339012	**MMW-P-03S**	EPA 353.2	WETA/8849		
5072339013	**MMW-P-03D**	EPA 353.2	WETA/8849		
5072339014	**Dup 1**	EPA 353.2	WETA/8849		
5072339015	**MMW-P-02**	EPA 353.2	WETA/8849		
5072339016	**MMW-P-05**	EPA 353.2	WETA/8849		
5072339017	**MMW-P-10S**	EPA 353.2	WETA/8849		
5072339018	**MMW-P-10D**	EPA 353.2	WETA/8849		
5072339019	**MMW-P-08**	EPA 353.2	WETA/8849		
5072339020	**MMW-P-07**	EPA 353.2	WETA/8849		
5072339021	**MMW-P-01**	EPA 353.2	WETA/8850		
5072339022	**MMW-P-06**	EPA 353.2	WETA/8850		
5072339023	**MMW-9S**	EPA 353.2	WETA/8850		

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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 2

1320205

Section A Required Client Information:

Company: Mundell & Assoc
Address: 110 S. Downey Ave Indpls, IN 46219
Email To:
Phone: 317-630-9000 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): Y/N; Analysis Test: SL. VOC8260

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-6D	WT	G			11.13.12	10:56a		3				X					X		-001
2	MMW-4D						11:31A		3											
3	MMW-13D						12:03p		3											
4	MMW-11D						12:58p		3											
5	MMW-11S						1:26p		3											
6	MMW-12S						1:56p		3											
7	MMW-14D						2:27p		3											
8 (8-10)	MMW-P-9S						3:26p		3											
9 (11)	MMW-P-9D						3:28p		3											
10 (12)	MMW-C-02S						3:55p		3											
11 (13)	TripBlank								3											011
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	11/15/12	10:30	Zeken Tech	11/15/12	10:30	1.3	Y	N	Y

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

WT/Pace Kee 11-15-12 1205

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 11.13.12

*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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

1320206

Section A Required Client Information:
Company: Mundell & Assoc
Address: 110 S. Downey Ave Indpls, IN 46219
Email To:
Phone: 317-630-9060 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: Marie 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)	SL.Voc's 8260	TOC 415.1	Nitrate/Nitrite 353.2	Sulfate 375.4	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-P-03S	WT	G			11-14-12	9:32A		5	X	X		X						X	X	X	X		012
2	MMW-P-03D						10:00A		5	X	X		X											013
3	Dup1								5	X	X		X											014
4	MMW-P-02						10:44A		5	X	X		X											015
5	MMW-P-05						11:30A		5	X	X		X											016
6	MMW-P-10S						12:06p		5	X	X		X											017
7	MMW-P-10D						12:40p		5	X	X		X											018
8	MMW-P-08						1:18p		5	X	X		X											019
9	MMW-P-07						1:47p		5	X	X		X											020
10	MMW-P-01						2:21p		5	X	X		X											021
11	MMW-P-06						2:55p		5	X	X		X											022
12	MMW-9S (MS/MSD)						3:30		15	X	X		X											023

5072339

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	A. D[signature]	11/15/12	1050	Zelma Tebbe	11/15/12	1050	1.3	Y	N	Y

ORIGINAL

WF/Pace Kee 11-15-12 1205

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 11-14-12

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 # 5072339

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 A B C D E **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.30°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: Kee 11-15-12

				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. Nitrates (pg. 2 of COC)
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. Most containers have no dates or times-
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: _____

Project Manager Review: Y Sayer **Date:** 11/15/12

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

Sample Container Count

Pace Analytical
www.pacelabs.com

CLIENT: Mundell + Assoc.

COC PAGE 1 of 2
COC ID# 1320205

Project # 5072339

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

Sample Container Count

Pace Analytical
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CLIENT: Mundell + Assoc

COC PAGE 2 of 2
COC ID# 1320206

Project # 5072339

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	9									3		3				

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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December 03, 2012

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

RE: Project: MI Plaza M01046
Pace Project No.: 5072445

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2012. 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.: 5072445

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.: 5072445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5072445001	**MMW-10S**	Water	11/15/12 11:03	11/16/12 11:35
5072445002	**MMW-1S**	Water	11/15/12 11:32	11/16/12 11:35
5072445003	**MMW-8S**	Water	11/15/12 12:04	11/16/12 11:35
5072445004	**MMW-C-01**	Water	11/15/12 12:42	11/16/12 11:35
5072445005	**MMW-P-11S**	Water	11/15/12 13:37	11/16/12 11:35
5072445006	**MMW-P-11DR**	Water	11/15/12 14:55	11/16/12 11:35
5072445007	**Trip Blank**	Water	11/15/12 08:00	11/16/12 11:35

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5072445

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5072445001	**MMW-10S**	EPA 8260	ALA, JLZ	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072445002	**MMW-1S**	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072445003	**MMW-8S**	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072445004	**MMW-C-01**	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072445005	**MMW-P-11S**	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072445006	**MMW-P-11DR**	EPA 8260	ALA	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072445007	**Trip Blank**	EPA 8260	ALA	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072445

Sample: MMW-10S **Lab ID: 5072445001** Collected: 11/15/12 11:03 Received: 11/16/12 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		11/28/12 21:50	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 21:50	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 21:50	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 21:50	75-35-4	
cis-1,2-Dichloroethene	**309**	ug/L	50.0	10		11/29/12 23:52	156-59-2	
trans-1,2-Dichloroethene	**13.2**	ug/L	5.0	1		11/28/12 21:50	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 21:50	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 21:50	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 21:50	91-20-3	
Tetrachloroethene	**23.0**	ug/L	5.0	1		11/28/12 21:50	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 21:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 21:50	71-55-6	
Trichloroethene	**21.7**	ug/L	5.0	1		11/28/12 21:50	79-01-6	
Vinyl chloride	**286**	ug/L	2.0	1		11/28/12 21:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 21:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		11/28/12 21:50	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		11/28/12 21:50	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/28/12 21:50	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	0.30	1		11/22/12 03:56	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**139**	mg/L	62.5	1		11/20/12 10:22	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 16:10		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 16:10		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072445

Sample: MMW-1S **Lab ID: 5072445002** Collected: 11/15/12 11:32 Received: 11/16/12 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		11/28/12 08:44	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 08:44	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 08:44	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 08:44	75-35-4	
cis-1,2-Dichloroethene	**5.1**	ug/L	5.0	1		11/28/12 08:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 08:44	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 08:44	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 08:44	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 08:44	91-20-3	
Tetrachloroethene	**413**	ug/L	100	20		11/28/12 09:18	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 08:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 08:44	71-55-6	
Trichloroethene	**20.0**	ug/L	5.0	1		11/28/12 08:44	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/28/12 08:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 08:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/28/12 08:44	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/28/12 08:44	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		11/28/12 08:44	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.1**	mg/L	0.30	1		11/22/12 04:27	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**61.5**	mg/L	25.0	1		11/20/12 10:22	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**3.4**	mg/L	0.10	1		11/16/12 16:12		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 16:12		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072445

Sample: MMW-8S **Lab ID: 5072445003** Collected: 11/15/12 12:04 Received: 11/16/12 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		11/28/12 09:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 09:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 09:52	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 09:52	75-35-4	
cis-1,2-Dichloroethene	**10.0**	ug/L	5.0	1		11/28/12 09:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 09:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 09:52	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 09:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 09:52	91-20-3	
Tetrachloroethene	**6.8**	ug/L	5.0	1		11/28/12 09:52	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 09:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 09:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 09:52	79-01-6	
Vinyl chloride	**127**	ug/L	2.0	1		11/28/12 09:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 09:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		11/28/12 09:52	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		11/28/12 09:52	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/28/12 09:52	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	0.30	1		11/22/12 04:59	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**192**	mg/L	25.0	1		11/20/12 10:22	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 16:18		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 16:18		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072445

Sample: MMW-C-01 **Lab ID: 5072445004** Collected: 11/15/12 12:42 Received: 11/16/12 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		11/28/12 10:26	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 10:26	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 10:26	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 10:26	75-35-4	
cis-1,2-Dichloroethene	**10.9**	ug/L	5.0	1		11/28/12 10:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 10:26	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 10:26	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 10:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 10:26	91-20-3	
Tetrachloroethene	**24.6**	ug/L	5.0	1		11/28/12 10:26	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 10:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 10:26	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 10:26	79-01-6	
Vinyl chloride	**26.7**	ug/L	2.0	1		11/28/12 10:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 10:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		11/28/12 10:26	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		11/28/12 10:26	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/28/12 10:26	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	0.30	1		11/22/12 05:30	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**68.0**	mg/L	25.0	1		11/20/12 10:22	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.43**	mg/L	0.10	1		11/16/12 16:20		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 16:20		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072445

Sample: MMW-P-11S **Lab ID: 5072445005** Collected: 11/15/12 13:37 Received: 11/16/12 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		11/28/12 23:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 23:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 23:32	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 23:32	75-35-4	
cis-1,2-Dichloroethene	**6.5**	ug/L	5.0	1		11/28/12 23:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 23:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 23:32	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 23:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 23:32	91-20-3	
Tetrachloroethene	**538**	ug/L	100	20		11/29/12 00:05	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 23:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 23:32	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 23:32	79-01-6	
Vinyl chloride	**18.7**	ug/L	2.0	1		11/28/12 23:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 23:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		11/28/12 23:32	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		11/28/12 23:32	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/28/12 23:32	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	0.30	1		11/22/12 06:01	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**148**	mg/L	25.0	1		11/20/12 10:22	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 16:24		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 16:24		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072445

Sample: MMW-P-11DR **Lab ID: 5072445006** Collected: 11/15/12 14:55 Received: 11/16/12 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		11/28/12 11:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/28/12 11:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/28/12 11:00	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/28/12 11:00	75-35-4	
cis-1,2-Dichloroethene	**10.4**	ug/L	5.0	1		11/28/12 11:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/28/12 11:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/28/12 11:00	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/28/12 11:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/28/12 11:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/28/12 11:00	127-18-4	
Toluene	ND	ug/L	5.0	1		11/28/12 11:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/28/12 11:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/28/12 11:00	79-01-6	
Vinyl chloride	**117**	ug/L	2.0	1		11/28/12 11:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/28/12 11:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		11/28/12 11:00	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		11/28/12 11:00	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/28/12 11:00	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	0.30	1		11/22/12 06:33	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**147**	mg/L	25.0	1		11/20/12 10:22	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/16/12 16:32		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/16/12 16:32		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072445

Sample: Trip Blank **Lab ID: 5072445007** Collected: 11/15/12 08:00 Received: 11/16/12 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		11/29/12 00:39	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 00:39	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 00:39	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 00:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 00:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 00:39	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 00:39	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 00:39	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 00:39	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 00:39	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 00:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 00:39	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 00:39	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/29/12 00:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 00:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		11/29/12 00:39	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/29/12 00:39	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		11/29/12 00:39	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072445

QC Batch: MSV/48103 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5072445002, 5072445003, 5072445004, 5072445006

METHOD BLANK: 835906 Matrix: Water
Associated Lab Samples: 5072445002, 5072445003, 5072445004, 5072445006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/12 01:22	
1,1-Dichloroethene	ug/L	ND	5.0	11/28/12 01:22	
Benzene	ug/L	ND	5.0	11/28/12 01:22	
Carbon tetrachloride	ug/L	ND	5.0	11/28/12 01:22	
Chloroform	ug/L	ND	5.0	11/28/12 01:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/12 01:22	
Ethylbenzene	ug/L	ND	5.0	11/28/12 01:22	
Methylene Chloride	ug/L	ND	5.0	11/28/12 01:22	
Naphthalene	ug/L	ND	5.0	11/28/12 01:22	
Tetrachloroethene	ug/L	ND	5.0	11/28/12 01:22	
Toluene	ug/L	ND	5.0	11/28/12 01:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/12 01:22	
Trichloroethene	ug/L	ND	5.0	11/28/12 01:22	
Vinyl chloride	ug/L	ND	2.0	11/28/12 01:22	
Xylene (Total)	ug/L	ND	10.0	11/28/12 01:22	
4-Bromofluorobenzene (S)	%.	103	72-125	11/28/12 01:22	
Dibromofluoromethane (S)	%.	104	83-123	11/28/12 01:22	
Toluene-d8 (S)	%.	103	81-114	11/28/12 01:22	

LABORATORY CONTROL SAMPLE: 835907

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	48.5	97	75-145	
Benzene	ug/L	50	53.0	106	76-123	
Carbon tetrachloride	ug/L	50	46.4	93	65-125	
Chloroform	ug/L	50	53.8	108	73-122	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	79-129	
Ethylbenzene	ug/L	50	49.9	100	75-120	
Methylene Chloride	ug/L	50	50.9	102	61-138	
Naphthalene	ug/L	50	50.7	101	62-130	
Tetrachloroethene	ug/L	50	50.9	102	57-125	
Toluene	ug/L	50	53.2	106	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.8	106	71-145	
Trichloroethene	ug/L	50	54.5	109	77-122	
Vinyl chloride	ug/L	50	45.5	91	61-146	
Xylene (Total)	ug/L	150	152	101	72-126	
4-Bromofluorobenzene (S)	%.			101	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			104	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072445

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 835908 835909

Parameter	Units	5072460007 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	48.2	51.4	96	103	37-136	6	20	
1,1-Dichloroethene	ug/L	ND	50	50	46.3	48.9	93	98	54-152	5	20	
Benzene	ug/L	ND	50	50	52.8	53.9	106	108	52-134	2	20	
Carbon tetrachloride	ug/L	ND	50	50	43.2	45.0	86	90	26-136	4	20	
Chloroform	ug/L	ND	50	50	51.2	54.3	102	109	50-134	6	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.6	53.8	101	108	48-145	6	20	
Ethylbenzene	ug/L	ND	50	50	49.2	50.7	98	101	29-132	3	20	
Methylene Chloride	ug/L	ND	50	50	49.7	51.1	99	102	47-141	3	20	
Naphthalene	ug/L	ND	50	50	47.7	51.0	95	102	40-124	7	20	
Tetrachloroethene	ug/L	ND	50	50	48.7	50.3	97	101	30-124	3	20	
Toluene	ug/L	ND	50	50	51.6	52.8	103	106	42-130	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.2	53.6	100	107	48-144	7	20	
Trichloroethene	ug/L	ND	50	50	52.1	56.4	104	113	44-130	8	20	
Vinyl chloride	ug/L	ND	50	50	41.5	44.0	83	88	45-159	6	20	
Xylene (Total)	ug/L	ND	150	150	153	155	102	103	29-131	1	20	
4-Bromofluorobenzene (S)	%.						99	100	72-125		20	
Dibromofluoromethane (S)	%.						96	101	83-123		20	
Toluene-d8 (S)	%.						98	98	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072445

QC Batch: MSV/48146 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5072445001, 5072445005, 5072445007

METHOD BLANK: 836487 Matrix: Water
Associated Lab Samples: 5072445001, 5072445005, 5072445007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/28/12 14:28	
1,1-Dichloroethene	ug/L	ND	5.0	11/28/12 14:28	
Benzene	ug/L	ND	5.0	11/28/12 14:28	
Carbon tetrachloride	ug/L	ND	5.0	11/28/12 14:28	
Chloroform	ug/L	ND	5.0	11/28/12 14:28	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/28/12 14:28	
Ethylbenzene	ug/L	ND	5.0	11/28/12 14:28	
Methylene Chloride	ug/L	ND	5.0	11/28/12 14:28	
Naphthalene	ug/L	ND	5.0	11/28/12 14:28	
Tetrachloroethene	ug/L	ND	5.0	11/28/12 14:28	
Toluene	ug/L	ND	5.0	11/28/12 14:28	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/28/12 14:28	
Trichloroethene	ug/L	ND	5.0	11/28/12 14:28	
Vinyl chloride	ug/L	ND	2.0	11/28/12 14:28	
Xylene (Total)	ug/L	ND	10.0	11/28/12 14:28	
4-Bromofluorobenzene (S)	%.	100	72-125	11/28/12 14:28	
Dibromofluoromethane (S)	%.	95	83-123	11/28/12 14:28	
Toluene-d8 (S)	%.	102	81-114	11/28/12 14:28	

LABORATORY CONTROL SAMPLE: 836488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.6	113	69-126	
1,1-Dichloroethene	ug/L	50	57.5	115	75-145	
Benzene	ug/L	50	53.9	108	76-123	
Carbon tetrachloride	ug/L	50	53.9	108	65-125	
Chloroform	ug/L	50	56.4	113	73-122	
cis-1,2-Dichloroethene	ug/L	50	57.7	115	79-129	
Ethylbenzene	ug/L	50	49.9	100	75-120	
Methylene Chloride	ug/L	50	60.7	121	61-138	
Naphthalene	ug/L	50	49.5	99	62-130	
Tetrachloroethene	ug/L	50	51.0	102	57-125	
Toluene	ug/L	50	46.3	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	61.0	122	71-145	
Trichloroethene	ug/L	50	61.7	123	77-122	L0
Vinyl chloride	ug/L	50	54.2	108	61-146	
Xylene (Total)	ug/L	150	149	99	72-126	
4-Bromofluorobenzene (S)	%.			105	72-125	
Dibromofluoromethane (S)	%.			104	83-123	
Toluene-d8 (S)	%.			99	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072445

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 836489 836490

Parameter	Units	5072445001 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	57.5	58.2	115	116	37-136	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	60.4	61.1	121	122	54-152	1	20	
Benzene	ug/L	ND	50	50	57.8	57.5	116	115	52-134	.6	20	
Carbon tetrachloride	ug/L	ND	50	50	51.6	54.2	103	108	26-136	5	20	
Chloroform	ug/L	ND	50	50	60.3	59.4	121	119	50-134	2	20	
cis-1,2-Dichloroethene	ug/L	309	50	50	368	366	118	114	48-145	.5	20	
Ethylbenzene	ug/L	ND	50	50	51.1	51.9	102	104	29-132	1	20	
Methylene Chloride	ug/L	ND	50	50	63.4	62.1	127	124	47-141	2	20	
Naphthalene	ug/L	ND	50	50	47.1	48.1	94	96	40-124	2	20	
Tetrachloroethene	ug/L	23.0	50	50	69.5	71.3	93	97	30-124	3	20	
Toluene	ug/L	ND	50	50	47.0	46.5	94	93	42-130	1	20	
trans-1,2-Dichloroethene	ug/L	13.2	50	50	76.5	76.6	127	127	48-144	.1	20	
Trichloroethene	ug/L	21.7	50	50	83.1	81.0	123	119	44-130	3	20	
Vinyl chloride	ug/L	286	50	50	302	304	33	35	45-159	.4	20	M0
Xylene (Total)	ug/L	ND	150	150	150	153	100	102	29-131	2	20	
4-Bromofluorobenzene (S)	%.						105	102	72-125		20	
Dibromofluoromethane (S)	%.						102	102	83-123		20	
Toluene-d8 (S)	%.						97	96	81-114		20	

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

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072445

QC Batch: OHIO/5185 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5072445001, 5072445002, 5072445003, 5072445004, 5072445005, 5072445006

METHOD BLANK: 834754 Matrix: Water
Associated Lab Samples: 5072445001, 5072445002, 5072445003, 5072445004, 5072445005, 5072445006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	11/21/12 19:48	N2

LABORATORY CONTROL SAMPLE: 834755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	97	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 834757 834758

Parameter	Units	5072559001 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	3.0	4	4	7.3	7.3	107	107	75-125	.07	20	N2

SAMPLE DUPLICATE: 834756

Parameter	Units	5072559001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	3.0	3.0	1	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072445

QC Batch: WET/10502 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5072445001, 5072445002, 5072445003, 5072445004, 5072445005, 5072445006

METHOD BLANK: 833616 Matrix: Water
Associated Lab Samples: 5072445001, 5072445002, 5072445003, 5072445004, 5072445005, 5072445006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	11/20/12 10:22	N2

LABORATORY CONTROL SAMPLE: 833617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.0	100	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 833618 833619

Parameter	Units	5072342001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	69.0	100	100	166	159	97	90	90-110	4	20	N2

MATRIX SPIKE SAMPLE: 833750

Parameter	Units	5072445002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	61.5	100	186	124	90-110	M0,N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072445

QC Batch: WETA/8852 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5072445001, 5072445002, 5072445003, 5072445004, 5072445005, 5072445006

METHOD BLANK: 832377 Matrix: Water
Associated Lab Samples: 5072445001, 5072445002, 5072445003, 5072445004, 5072445005, 5072445006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	11/16/12 16:02	
Nitrogen, Nitrite	mg/L	ND	0.10	11/16/12 16:02	

LABORATORY CONTROL SAMPLE: 832378

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	1.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 832379 832380

Parameter	Units	5072460007 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	0.14	2	2	2.0	2.0	91	91	90-110	.2	20	
Nitrogen, Nitrite	mg/L	ND	2	2	1.7	1.7	85	85	90-110	.2	20	M3

MATRIX SPIKE SAMPLE: 832381

Parameter	Units	5072460009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.0	51	90-110	M0
Nitrogen, Nitrite	mg/L	0.083	2	1.1	51	90-110	M0

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5072445

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

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
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.: 5072445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5072445001	**MMW-10S**	EPA 8260	MSV/48146		
5072445002	**MMW-1S**	EPA 8260	MSV/48103		
5072445003	**MMW-8S**	EPA 8260	MSV/48103		
5072445004	**MMW-C-01**	EPA 8260	MSV/48103		
5072445005	**MMW-P-11S**	EPA 8260	MSV/48146		
5072445006	**MMW-P-11DR**	EPA 8260	MSV/48103		
5072445007	**Trip Blank**	EPA 8260	MSV/48146		
5072445001	**MMW-10S**	SM 5310C	OHIO/5185		
5072445002	**MMW-1S**	SM 5310C	OHIO/5185		
5072445003	**MMW-8S**	SM 5310C	OHIO/5185		
5072445004	**MMW-C-01**	SM 5310C	OHIO/5185		
5072445005	**MMW-P-11S**	SM 5310C	OHIO/5185		
5072445006	**MMW-P-11DR**	SM 5310C	OHIO/5185		
5072445001	**MMW-10S**	ASTM D516-90,02	WET/10502		
5072445002	**MMW-1S**	ASTM D516-90,02	WET/10502		
5072445003	**MMW-8S**	ASTM D516-90,02	WET/10502		
5072445004	**MMW-C-01**	ASTM D516-90,02	WET/10502		
5072445005	**MMW-P-11S**	ASTM D516-90,02	WET/10502		
5072445006	**MMW-P-11DR**	ASTM D516-90,02	WET/10502		
5072445001	**MMW-10S**	EPA 353.2	WETA/8852		
5072445002	**MMW-1S**	EPA 353.2	WETA/8852		
5072445003	**MMW-8S**	EPA 353.2	WETA/8852		
5072445004	**MMW-C-01**	EPA 353.2	WETA/8852		
5072445005	**MMW-P-11S**	EPA 353.2	WETA/8852		
5072445006	**MMW-P-11DR**	EPA 353.2	WETA/8852		

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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

1320207

Section A Required Client Information:

Company: Mundell & Associates
Address: 110 S. Downey Ave
Indpls, IN 46219
Email To:
Phone: 317-630-9060 Fax:
Requested Due Date/TAT: Std

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 Ickbe
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)	SVOCs 8260	TOC 415.1	nitrate/nitrite 353.2	sulfate 375.4	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-10S	WT	G			11.15.12	11:03a		5	N	Y		X						X	X	X	X		5672445-001
2	MMW-15						11:32a		5	X	X		X											2
3	MMW-8S						12:04p		5	X	X		X											3
4	MMW-C-01						12:42p		5	X	X		X											4
5	MMW-P-11S						1:37p		5	X	X		X											5
6	MMW-P-11DR						2:55p		5	X	X		X											6
7	Trip Blank												X											7
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	11/16/12	11:35	[signature]	11/16/12	1135

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 11.15.12

ORIGINAL

WT / Pace

Kee 11-16-12 1214

*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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell + Assoc. Project # 5072445

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 A B C D E Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 1.1 °C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KLL 11-16-12

				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. Nitrates
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 for MMW-10S
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: T Sager Date: 11/16/12

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

Sample Container Count

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CLIENT: Mundell + Assoc.

COC PAGE 1 of 1
COC ID# 1320207

Project # 5072745

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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December 05, 2012

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

RE: Project: Michigan Plaza
Pace Project No.: 5072577

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2012. 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
Pace Project No.: 5072577

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: Michigan Plaza
Pace Project No.: 5072577

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5072577001	**MW-170S**	Water	11/16/12 10:26	11/20/12 11:30
5072577002	**MW-170D**	Water	11/16/12 10:42	11/20/12 11:30
5072577003	**MW-167D**	Water	11/16/12 13:00	11/20/12 11:30
5072577004	**MW-168D**	Water	11/16/12 14:16	11/20/12 11:30
5072577005	**MMW-P-12S**	Water	11/19/12 09:35	11/20/12 11:30
5072577006	**MMW-P-12D**	Water	11/19/12 10:35	11/20/12 11:30
5072577007	**MMW-C-02D**	Water	11/19/12 11:43	11/20/12 11:30
5072577008	**MMW-C-16S**	Water	11/19/12 12:19	11/20/12 11:30
5072577009	**MMW-C-16D**	Water	11/19/12 13:55	11/20/12 11:30
5072577010	**MMW-P-13S**	Water	11/19/12 15:10	11/20/12 11:30
5072577011	**MMW-P-13D**	Water	11/19/12 16:31	11/20/12 11:30
5072577012	**DUP 2**	Water	11/16/12 08:00	11/20/12 11:30
5072577013	**TRIP BLANK**	Water	11/16/12 08:00	11/20/12 11:30

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza
Pace Project No.: 5072577

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5072577001	**MW-170S**	EPA 8260	RSW	18
5072577002	**MW-170D**	EPA 8260	RSW	18
5072577003	**MW-167D**	EPA 8260	RSW	18
5072577004	**MW-168D**	EPA 8260	RSW	18
5072577005	**MMW-P-12S**	EPA 8260	RSW	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072577006	**MMW-P-12D**	EPA 8260	RSW	18
		SM 5310C	GR1	1
		ASTM D516-90,02	DAE	1
		EPA 353.2	ILP	2
5072577007	**MMW-C-02D**	EPA 8260	RSW	18
5072577008	**MMW-C-16S**	EPA 8260	RSW	18
5072577009	**MMW-C-16D**	EPA 8260	RSW	18
5072577010	**MMW-P-13S**	EPA 8260	RSW	18
5072577011	**MMW-P-13D**	EPA 8260	RSW	18
5072577012	**DUP 2**	EPA 8260	RSW	18
5072577013	**TRIP BLANK**	EPA 8260	RSW	18

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MW-170S **Lab ID: 5072577001** Collected: 11/16/12 10:26 Received: 11/20/12 11:30 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		11/29/12 18:26	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 18:26	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 18:26	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 18:26	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/L	5.0	1		11/29/12 18:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 18:26	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 18:26	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 18:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 18:26	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 18:26	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 18:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 18:26	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 18:26	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/29/12 18:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 18:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		11/29/12 18:26	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		11/29/12 18:26	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		11/29/12 18:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MW-170D **Lab ID: 5072577002** Collected: 11/16/12 10:42 Received: 11/20/12 11:30 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		11/29/12 19:04	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 19:04	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 19:04	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 19:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 19:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 19:04	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 19:04	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 19:04	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 19:04	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 19:04	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 19:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 19:04	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 19:04	79-01-6	
Vinyl chloride	**62.8**	ug/L	2.0	1		11/29/12 19:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 19:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		11/29/12 19:04	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/29/12 19:04	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		11/29/12 19:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MW-167D **Lab ID: 5072577003** Collected: 11/16/12 13:00 Received: 11/20/12 11:30 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		11/29/12 19:42	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 19:42	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 19:42	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 19:42	75-35-4	
cis-1,2-Dichloroethene	**480**	ug/L	50.0	10		11/30/12 16:52	156-59-2	
trans-1,2-Dichloroethene	**19.9**	ug/L	5.0	1		11/29/12 19:42	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 19:42	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 19:42	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 19:42	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 19:42	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 19:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 19:42	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 19:42	79-01-6	
Vinyl chloride	**9.2**	ug/L	2.0	1		11/29/12 19:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 19:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		11/29/12 19:42	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		11/29/12 19:42	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		11/29/12 19:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MW-168D **Lab ID: 5072577004** Collected: 11/16/12 14:16 Received: 11/20/12 11:30 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		11/30/12 03:55	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/12 03:55	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/30/12 03:55	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/12 03:55	75-35-4	
cis-1,2-Dichloroethene	**6.9**	ug/L	5.0	1		11/30/12 03:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 03:55	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/30/12 03:55	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/12 03:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/30/12 03:55	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/12 03:55	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/12 03:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/12 03:55	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/30/12 03:55	79-01-6	
Vinyl chloride	**81.3**	ug/L	2.0	1		11/30/12 03:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/30/12 03:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		11/30/12 03:55	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		11/30/12 03:55	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/30/12 03:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MMW-P-12S **Lab ID: 5072577005** Collected: 11/19/12 09:35 Received: 11/20/12 11:30 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		11/29/12 22:14	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 22:14	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 22:14	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 22:14	75-35-4	
cis-1,2-Dichloroethene	**763**	ug/L	50.0	10		11/30/12 17:30	156-59-2	
trans-1,2-Dichloroethene	**15.8**	ug/L	5.0	1		11/29/12 22:14	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 22:14	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 22:14	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 22:14	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 22:14	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 22:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 22:14	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 22:14	79-01-6	
Vinyl chloride	**76.1**	ug/L	2.0	1		11/29/12 22:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 22:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		11/29/12 22:14	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/29/12 22:14	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/29/12 22:14	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	0.30	1		11/22/12 10:28	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**146**	mg/L	25.0	1		11/26/12 14:38	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/20/12 13:22		
Nitrogen, Nitrite	ND	mg/L	0.10	1		11/20/12 13:22		

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MMW-P-12D **Lab ID: 5072577006** Collected: 11/19/12 10:35 Received: 11/20/12 11:30 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		11/29/12 22:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 22:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 22:52	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 22:52	75-35-4	
cis-1,2-Dichloroethene	**793**	ug/L	50.0	10		11/30/12 18:08	156-59-2	
trans-1,2-Dichloroethene	**17.4**	ug/L	5.0	1		11/29/12 22:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 22:52	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 22:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 22:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 22:52	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 22:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 22:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 22:52	79-01-6	
Vinyl chloride	**91.8**	ug/L	2.0	1		11/29/12 22:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 22:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		11/29/12 22:52	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		11/29/12 22:52	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/29/12 22:52	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	0.30	1		11/22/12 11:59	7440-44-0	N2
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**165**	mg/L	25.0	1		11/26/12 14:38	14808-79-8	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		11/20/12 13:23		
Nitrogen, Nitrite	**0.67**	mg/L	0.10	1		11/20/12 13:23		

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MMW-C-02D **Lab ID: 5072577007** Collected: 11/19/12 11:43 Received: 11/20/12 11:30 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		11/29/12 23:29	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 23:29	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 23:29	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 23:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 23:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 23:29	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 23:29	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 23:29	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 23:29	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 23:29	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 23:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 23:29	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 23:29	79-01-6	
Vinyl chloride	**125**	ug/L	2.0	1		11/29/12 23:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 23:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		11/29/12 23:29	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/29/12 23:29	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		11/29/12 23:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MMW-C-16S **Lab ID: 5072577008** Collected: 11/19/12 12:19 Received: 11/20/12 11:30 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		11/30/12 00:07	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/12 00:07	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/30/12 00:07	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/12 00:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 00:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 00:07	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/30/12 00:07	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/12 00:07	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/30/12 00:07	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/12 00:07	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/12 00:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/12 00:07	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/30/12 00:07	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/30/12 00:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/30/12 00:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		11/30/12 00:07	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		11/30/12 00:07	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		11/30/12 00:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MMW-C-16D **Lab ID: 5072577009** Collected: 11/19/12 13:55 Received: 11/20/12 11:30 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		11/30/12 00:45	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/12 00:45	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/30/12 00:45	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/12 00:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 00:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 00:45	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/30/12 00:45	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/12 00:45	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/30/12 00:45	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/12 00:45	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/12 00:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/12 00:45	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/30/12 00:45	79-01-6	
Vinyl chloride	**349**	ug/L	20.0	10		11/30/12 18:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/30/12 00:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		11/30/12 00:45	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		11/30/12 00:45	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		11/30/12 00:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MMW-P-13S **Lab ID: 5072577010** Collected: 11/19/12 15:10 Received: 11/20/12 11:30 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		11/29/12 20:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 20:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 20:20	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 20:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 20:20	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 20:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 20:20	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 20:20	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 20:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 20:20	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 20:20	79-01-6	
Vinyl chloride	**3.6**	ug/L	2.0	1		11/29/12 20:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 20:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		11/29/12 20:20	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		11/29/12 20:20	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		11/29/12 20:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: MMW-P-13D **Lab ID: 5072577011** Collected: 11/19/12 16:31 Received: 11/20/12 11:30 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		11/29/12 20:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 20:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 20:58	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 20:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 20:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 20:58	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 20:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 20:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 20:58	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 20:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 20:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 20:58	79-01-6	
Vinyl chloride	**154**	ug/L	2.0	1		11/29/12 20:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 20:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		11/29/12 20:58	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		11/29/12 20:58	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		11/29/12 20:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: DUP 2 **Lab ID: 5072577012** Collected: 11/16/12 08:00 Received: 11/20/12 11:30 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		11/29/12 21:36	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/29/12 21:36	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/29/12 21:36	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/29/12 21:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 21:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/29/12 21:36	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/29/12 21:36	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/29/12 21:36	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/29/12 21:36	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/29/12 21:36	127-18-4	
Toluene	ND	ug/L	5.0	1		11/29/12 21:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/29/12 21:36	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/29/12 21:36	79-01-6	
Vinyl chloride	**161**	ug/L	2.0	1		11/29/12 21:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/29/12 21:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		11/29/12 21:36	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		11/29/12 21:36	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/29/12 21:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5072577

Sample: TRIP BLANK **Lab ID: 5072577013** Collected: 11/16/12 08:00 Received: 11/20/12 11:30 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		11/30/12 05:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/12 05:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/30/12 05:48	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/12 05:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 05:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 05:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/30/12 05:48	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/12 05:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/30/12 05:48	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/12 05:48	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/12 05:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/12 05:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/30/12 05:48	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/30/12 05:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/30/12 05:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		11/30/12 05:48	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		11/30/12 05:48	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		11/30/12 05:48	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5072577

QC Batch: MSV/48175 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5072577001, 5072577002, 5072577003, 5072577005, 5072577006, 5072577007, 5072577008, 5072577009, 5072577010, 5072577011, 5072577012

METHOD BLANK: 837020 Matrix: Water
Associated Lab Samples: 5072577001, 5072577002, 5072577003, 5072577005, 5072577006, 5072577007, 5072577008, 5072577009, 5072577010, 5072577011, 5072577012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/29/12 14:39	
1,1-Dichloroethene	ug/L	ND	5.0	11/29/12 14:39	
Benzene	ug/L	ND	5.0	11/29/12 14:39	
Carbon tetrachloride	ug/L	ND	5.0	11/29/12 14:39	
Chloroform	ug/L	ND	5.0	11/29/12 14:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/29/12 14:39	
Ethylbenzene	ug/L	ND	5.0	11/29/12 14:39	
Methylene Chloride	ug/L	ND	5.0	11/29/12 14:39	
Naphthalene	ug/L	ND	5.0	11/29/12 14:39	
Tetrachloroethene	ug/L	ND	5.0	11/29/12 14:39	
Toluene	ug/L	ND	5.0	11/29/12 14:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/29/12 14:39	
Trichloroethene	ug/L	ND	5.0	11/29/12 14:39	
Vinyl chloride	ug/L	ND	2.0	11/29/12 14:39	
Xylene (Total)	ug/L	ND	10.0	11/29/12 14:39	
4-Bromofluorobenzene (S)	%.	108	72-125	11/29/12 14:39	
Dibromofluoromethane (S)	%.	106	83-123	11/29/12 14:39	
Toluene-d8 (S)	%.	99	81-114	11/29/12 14:39	

LABORATORY CONTROL SAMPLE: 837021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.7	107	69-126	
1,1-Dichloroethene	ug/L	50	49.8	100	75-145	
Benzene	ug/L	50	49.3	99	76-123	
Carbon tetrachloride	ug/L	50	54.3	109	65-125	
Chloroform	ug/L	50	51.7	103	73-122	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	79-129	
Ethylbenzene	ug/L	50	49.5	99	75-120	
Methylene Chloride	ug/L	50	52.6	105	61-138	
Naphthalene	ug/L	50	55.2	110	62-130	
Tetrachloroethene	ug/L	50	50.3	101	57-125	
Toluene	ug/L	50	50.2	100	72-124	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	71-145	
Trichloroethene	ug/L	50	53.8	108	77-122	
Vinyl chloride	ug/L	50	46.6	93	61-146	
Xylene (Total)	ug/L	150	149	99	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			108	83-123	
Toluene-d8 (S)	%.			100	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5072577

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 837022 837023

Parameter	Units	5072528001 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	58.2	58.2	116	116	37-136	.05	20	
1,1-Dichloroethene	ug/L	ND	50	50	54.3	55.3	109	111	54-152	2	20	
Benzene	ug/L	ND	50	50	53.3	53.8	107	108	52-134	1	20	
Carbon tetrachloride	ug/L	ND	50	50	59.0	58.7	118	117	26-136	.5	20	
Chloroform	ug/L	ND	50	50	56.4	57.1	113	114	50-134	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	51.3	53.1	103	106	48-145	4	20	
Ethylbenzene	ug/L	ND	50	50	50.0	50.9	100	102	29-132	2	20	
Methylene Chloride	ug/L	ND	50	50	58.0	59.2	116	118	47-141	2	20	
Naphthalene	ug/L	ND	50	50	53.5	58.9	107	118	40-124	10	20	
Tetrachloroethene	ug/L	ND	50	50	51.3	52.4	103	105	30-124	2	20	
Toluene	ug/L	ND	50	50	52.1	52.9	104	106	42-130	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	52.0	52.3	104	105	48-144	.5	20	
Trichloroethene	ug/L	ND	50	50	56.1	57.4	112	115	44-130	2	20	
Vinyl chloride	ug/L	ND	50	50	51.3	52.1	103	104	45-159	2	20	
Xylene (Total)	ug/L	ND	150	150	153	154	102	102	29-131	.6	20	
4-Bromofluorobenzene (S)	%.						101	99	72-125		20	
Dibromofluoromethane (S)	%.						108	109	83-123		20	
Toluene-d8 (S)	%.						102	103	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5072577

QC Batch: MSV/48176 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5072577004, 5072577013

METHOD BLANK: 837027 | Matrix: Water
Associated Lab Samples: 5072577004, 5072577013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/30/12 03:17	
1,1-Dichloroethene	ug/L	ND	5.0	11/30/12 03:17	
Benzene	ug/L	ND	5.0	11/30/12 03:17	
Carbon tetrachloride	ug/L	ND	5.0	11/30/12 03:17	
Chloroform	ug/L	ND	5.0	11/30/12 03:17	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/30/12 03:17	
Ethylbenzene	ug/L	ND	5.0	11/30/12 03:17	
Methylene Chloride	ug/L	ND	5.0	11/30/12 03:17	
Naphthalene	ug/L	ND	5.0	11/30/12 03:17	
Tetrachloroethene	ug/L	ND	5.0	11/30/12 03:17	
Toluene	ug/L	ND	5.0	11/30/12 03:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/30/12 03:17	
Trichloroethene	ug/L	ND	5.0	11/30/12 03:17	
Vinyl chloride	ug/L	ND	2.0	11/30/12 03:17	
Xylene (Total)	ug/L	ND	10.0	11/30/12 03:17	
4-Bromofluorobenzene (S)	%.	104	72-125	11/30/12 03:17	
Dibromofluoromethane (S)	%.	104	83-123	11/30/12 03:17	
Toluene-d8 (S)	%.	99	81-114	11/30/12 03:17	

LABORATORY CONTROL SAMPLE: 837028

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	48.1	96	75-145	
Benzene	ug/L	50	47.8	96	76-123	
Carbon tetrachloride	ug/L	50	51.6	103	65-125	
Chloroform	ug/L	50	50.2	100	73-122	
cis-1,2-Dichloroethene	ug/L	50	46.6	93	79-129	
Ethylbenzene	ug/L	50	46.8	94	75-120	
Methylene Chloride	ug/L	50	52.0	104	61-138	
Naphthalene	ug/L	50	51.8	104	62-130	
Tetrachloroethene	ug/L	50	47.0	94	57-125	
Toluene	ug/L	50	47.8	96	72-124	
trans-1,2-Dichloroethene	ug/L	50	46.4	93	71-145	
Trichloroethene	ug/L	50	50.6	101	77-122	
Vinyl chloride	ug/L	50	44.2	88	61-146	
Xylene (Total)	ug/L	150	141	94	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			106	83-123	
Toluene-d8 (S)	%.			101	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5072577

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 837029 837030

Parameter	Units	5072577004 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	46.7	48.7	93	97	37-136	4	20	
1,1-Dichloroethene	ug/L	ND	50	50	46.7	47.5	93	95	54-152	2	20	
Benzene	ug/L	ND	50	50	42.4	43.2	85	86	52-134	2	20	
Carbon tetrachloride	ug/L	ND	50	50	44.2	46.1	88	92	26-136	4	20	
Chloroform	ug/L	ND	50	50	47.8	49.0	96	98	50-134	3	20	
cis-1,2-Dichloroethene	ug/L	6.9	50	50	49.5	50.3	85	87	48-145	2	20	
Ethylbenzene	ug/L	ND	50	50	27.3	27.7	55	55	29-132	1	20	
Methylene Chloride	ug/L	ND	50	50	51.2	52.4	102	105	47-141	2	20	
Naphthalene	ug/L	ND	50	50	41.3	42.2	83	84	40-124	2	20	
Tetrachloroethene	ug/L	ND	50	50	30.0	30.3	60	61	30-124	.9	20	
Toluene	ug/L	ND	50	50	35.4	36.3	71	72	42-130	3	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	42.2	43.2	84	86	48-144	2	20	
Trichloroethene	ug/L	ND	50	50	41.1	41.7	81	83	44-130	1	20	
Vinyl chloride	ug/L	81.3	50	50	119	123	76	84	45-159	3	20	
Xylene (Total)	ug/L	ND	150	150	82.1	83.5	55	56	29-131	2	20	
4-Bromofluorobenzene (S)	%.						101	103	72-125		20	
Dibromofluoromethane (S)	%.						107	106	83-123		20	
Toluene-d8 (S)	%.						101	101	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5072577

QC Batch: OHIO/5186 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C TOC
Associated Lab Samples: 5072577005, 5072577006

METHOD BLANK: 834763 | Matrix: Water
Associated Lab Samples: 5072577005, 5072577006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	11/22/12 09:34	N2

LABORATORY CONTROL SAMPLE: 834764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	96	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 834766 834767

Parameter	Units	5072577005 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	1.7	4	4	5.6	5.7	98	98	75-125	.2	20	N2

SAMPLE DUPLICATE: 834765

Parameter	Units	5072577005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.7	1.7	.3	20	N2

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

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5072577

QC Batch: WET/10527
QC Batch Method: ASTM D516-90,02
Analysis Method: ASTM D516-90,02
Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5072577005, 5072577006

METHOD BLANK: 835194
Matrix: Water
Associated Lab Samples: 5072577005, 5072577006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	11/26/12 14:38	N2

LABORATORY CONTROL SAMPLE: 835195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.9	100	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 835196 835197

Parameter	Units	5072559001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	67.0	100	100	156	155	89	88	90-110	.6	20	M3,N2

MATRIX SPIKE SAMPLE: 835198

Parameter	Units	5072654002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	68.0	100	154	86	90-110	M0,N2

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5072577

QC Batch: WETA/8865 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5072577005, 5072577006

METHOD BLANK: 833731 | Matrix: Water
Associated Lab Samples: 5072577005, 5072577006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	11/20/12 13:04	
Nitrogen, Nitrite	mg/L	ND	0.10	11/20/12 13:04	

LABORATORY CONTROL SAMPLE: 833732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.9	94	90-110	
Nitrogen, Nitrite	mg/L	2	1.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 833733 833734

Parameter	Units	5072564001 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	0.079J	2	2	1.8	1.9	88	92	90-110	5	20	M0
Nitrogen, Nitrite	mg/L	ND	2	2	1.9	1.9	94	93	90-110	.9	20	

MATRIX SPIKE SAMPLE: 833815

Parameter	Units	5072577006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.9	94	90-110	
Nitrogen, Nitrite	mg/L	0.67	2	1.8	58	90-110	M0

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QUALIFIERS

Project: Michigan Plaza
Pace Project No.: 5072577

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: Michigan Plaza
Pace Project No.: 5072577

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5072577001	**MW-170S**	EPA 8260	MSV/48175		
5072577002	**MW-170D**	EPA 8260	MSV/48175		
5072577003	**MW-167D**	EPA 8260	MSV/48175		
5072577004	**MW-168D**	EPA 8260	MSV/48176		
5072577005	**MMW-P-12S**	EPA 8260	MSV/48175		
5072577006	**MMW-P-12D**	EPA 8260	MSV/48175		
5072577007	**MMW-C-02D**	EPA 8260	MSV/48175		
5072577008	**MMW-C-16S**	EPA 8260	MSV/48175		
5072577009	**MMW-C-16D**	EPA 8260	MSV/48175		
5072577010	**MMW-P-13S**	EPA 8260	MSV/48175		
5072577011	**MMW-P-13D**	EPA 8260	MSV/48175		
5072577012	**DUP 2**	EPA 8260	MSV/48175		
5072577013	**TRIP BLANK**	EPA 8260	MSV/48176		
5072577005	**MMW-P-12S**	SM 5310C	OHIO/5186		
5072577006	**MMW-P-12D**	SM 5310C	OHIO/5186		
5072577005	**MMW-P-12S**	ASTM D516-90,02	WET/10527		
5072577006	**MMW-P-12D**	ASTM D516-90,02	WET/10527		
5072577005	**MMW-P-12S**	EPA 353.2	WETA/8865		
5072577006	**MMW-P-12D**	EPA 353.2	WETA/8865		

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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.

✓MM

Page: 1 of 2

1320286

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Mundell & Assoc	Report To: Mark Breting	Attention: Merle Tebbe
Address: 110 S. Downey Ave Indpls, IN 46219	Copy To:	Company Name: Mundell
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT: SAT	Project Number:	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)

5072577

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)	SL Vac's 8260	TOC 415.1	Nitrate 353.2	Nitrite 353.2	Sulfate 375.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-170S	WT	G			11-16-12	10:26A		3				X						X						001
2	MW-170D	↓	↓				11:42A		3				X						↓						-002
3	MW-167D	↓	↓				1:00p		3				X						↓						-003
4	MW-168D	↓	↓				2:16p		3				X						↓						-004
5	MMW-P-12S	↓	↓			11-19-12	9:35A		5	X	X		X						↓	X	X	X	X		-005
6	MMW-P-12D	↓	↓			11-19-12	10:35A		5	X	X		X						↓	X	X	X	X		-006
7	MMW-C-02D	↓	↓				11:43A		3				X						↓						-007
8	MMW-C-16S	↓	↓				12:19p		3				X						↓						-008
9	MMW-C-16D	↓	↓				1:55p		3				X						↓						-009
10	MMW-P-13S	↓	↓				3:10p		3				X						↓						-010
11	MMW-P-13D	↓	↓				4:31p		3				X						↓						-011
12	DUP 2	↓	↓						3				X						↓						-012

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)
	A. D[illegible]	11-20-12	1130	Zeh[illegible] Te[illegible]	11/20/12	1130	3.5°	Y	N	Y

W/I PACE SCB 11/20/12 12:10 ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 11-19-12

*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

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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.

1320287

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 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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): SL Vol's 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT							3				X					X		5072577-013
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	A.D.	11.20.12	1130	Rebecca Taylor	11/20/12	1130	3.5°	Y	N	Y

W/I PACE SCB 11/20/12 12:10 ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: A.D. DATE Signed (MM/DD/YY): 11.19.12

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.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 5072577

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) 3.5°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 11-20-12 / SCB

				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. NITRATE
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. Sample MMW-C-02D (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: Y Sayer **Date:** 11/20/12

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

Sample Container Count

CLIENT: Mundell + Assoc

COC PAGE 1 of 2
COC ID# 1320286

Project # 5072577

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	AG3U		Comments
1	3															
2																
3																
4																
5										1		1		+	SCB 11/20/12	
6										1		1		+	SCB 11/20/12	
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# 1320287

Project # 5072577

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

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December 03, 2012

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

RE: Project: Michigan Plaza M01046
Pace Project No.: 5072674

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2012. 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.: 5072674

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.: 5072674

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5072674001	**MMW-C-17D**	Water	11/20/12 13:07	11/21/12 11:05
5072674002	**MMW-P-14S**	Water	11/20/12 14:22	11/21/12 11:05
5072674003	**MMW-P-14D**	Water	11/20/12 15:02	11/21/12 11:05

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5072674

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5072674001	**MMW-C-17D**	EPA 8260	HEB	18
5072674002	**MMW-P-14S**	EPA 8260	HEB	18
5072674003	**MMW-P-14D**	EPA 8260	AMV	18

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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5072674

Sample: MMW-C-17D **Lab ID: 5072674001** Collected: 11/20/12 13:07 Received: 11/21/12 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		11/30/12 09:56	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/12 09:56	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/30/12 09:56	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/12 09:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 09:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 09:56	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/30/12 09:56	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/12 09:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/30/12 09:56	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/12 09:56	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/12 09:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/12 09:56	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/30/12 09:56	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/30/12 09:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/30/12 09:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		11/30/12 09:56	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		11/30/12 09:56	460-00-4	
Toluene-d8 (S)	119	%.	81-114	1		11/30/12 09:56	2037-26-5	S3

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5072674

Sample: MMW-P-14S **Lab ID: 5072674002** Collected: 11/20/12 14:22 Received: 11/21/12 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		11/30/12 11:50	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/12 11:50	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/30/12 11:50	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/12 11:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 11:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/12 11:50	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/30/12 11:50	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/12 11:50	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/30/12 11:50	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/12 11:50	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/12 11:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/12 11:50	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/30/12 11:50	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/30/12 11:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/30/12 11:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		11/30/12 11:50	1868-53-7	
4-Bromofluorobenzene (S)	88	%.	72-125	1		11/30/12 11:50	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		11/30/12 11:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5072674

Sample: MMW-P-14D **Lab ID: 5072674003** Collected: 11/20/12 15:02 Received: 11/21/12 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		12/01/12 09:27	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		12/01/12 09:27	56-23-5	
Chloroform	ND	ug/L	5.0	1		12/01/12 09:27	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/01/12 09:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/12 09:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/12 09:27	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		12/01/12 09:27	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		12/01/12 09:27	75-09-2	
Naphthalene	ND	ug/L	5.0	1		12/01/12 09:27	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		12/01/12 09:27	127-18-4	
Toluene	ND	ug/L	5.0	1		12/01/12 09:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/01/12 09:27	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		12/01/12 09:27	79-01-6	
Vinyl chloride	**58.3**	ug/L	2.0	1		12/01/12 09:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/01/12 09:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		12/01/12 09:27	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		12/01/12 09:27	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		12/01/12 09:27	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5072674

QC Batch: MSV/48190 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5072674001, 5072674002

METHOD BLANK: 837211 | Matrix: Water
Associated Lab Samples: 5072674001, 5072674002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/30/12 08:02	
1,1-Dichloroethene	ug/L	ND	5.0	11/30/12 08:02	
Benzene	ug/L	ND	5.0	11/30/12 08:02	
Carbon tetrachloride	ug/L	ND	5.0	11/30/12 08:02	
Chloroform	ug/L	ND	5.0	11/30/12 08:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/30/12 08:02	
Ethylbenzene	ug/L	ND	5.0	11/30/12 08:02	
Methylene Chloride	ug/L	ND	5.0	11/30/12 08:02	
Naphthalene	ug/L	ND	5.0	11/30/12 08:02	
Tetrachloroethene	ug/L	ND	5.0	11/30/12 08:02	
Toluene	ug/L	ND	5.0	11/30/12 08:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/30/12 08:02	
Trichloroethene	ug/L	ND	5.0	11/30/12 08:02	
Vinyl chloride	ug/L	ND	2.0	11/30/12 08:02	
Xylene (Total)	ug/L	ND	10.0	11/30/12 08:02	
4-Bromofluorobenzene (S)	%.	96	72-125	11/30/12 08:02	
Dibromofluoromethane (S)	%.	98	83-123	11/30/12 08:02	
Toluene-d8 (S)	%.	110	81-114	11/30/12 08:02	

LABORATORY CONTROL SAMPLE: 837212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.6	97	69-126	
1,1-Dichloroethene	ug/L	50	50.9	102	75-145	
Benzene	ug/L	50	48.8	98	76-123	
Carbon tetrachloride	ug/L	50	49.5	99	65-125	
Chloroform	ug/L	50	51.3	103	73-122	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	79-129	
Ethylbenzene	ug/L	50	52.5	105	75-120	
Methylene Chloride	ug/L	50	49.5	99	61-138	
Naphthalene	ug/L	50	41.9	84	62-130	
Tetrachloroethene	ug/L	50	51.7	103	57-125	
Toluene	ug/L	50	53.1	106	72-124	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	71-145	
Trichloroethene	ug/L	50	54.3	109	77-122	
Vinyl chloride	ug/L	50	45.2	90	61-146	
Xylene (Total)	ug/L	150	151	101	72-126	
4-Bromofluorobenzene (S)	%.			102	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			103	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5072674

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 837213 837214

Parameter	Units	5072674001 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	44.2	46.5	88	93	37-136	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	40.5	41.0	81	82	54-152	1	20	
Benzene	ug/L	ND	50	50	44.4	44.1	89	88	52-134	.7	20	
Carbon tetrachloride	ug/L	ND	50	50	42.8	45.2	86	90	26-136	6	20	
Chloroform	ug/L	ND	50	50	47.0	47.2	94	94	50-134	.4	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	43.6	45.0	87	90	48-145	3	20	
Ethylbenzene	ug/L	ND	50	50	31.6	29.3	63	59	29-132	8	20	
Methylene Chloride	ug/L	ND	50	50	46.0	47.1	92	94	47-141	2	20	
Naphthalene	ug/L	ND	50	50	39.4	32.8	79	66	40-124	18	20	
Tetrachloroethene	ug/L	ND	50	50	33.7	32.2	67	64	30-124	5	20	
Toluene	ug/L	ND	50	50	40.0	39.7	80	79	42-130	.9	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.7	41.9	83	84	48-144	.6	20	
Trichloroethene	ug/L	ND	50	50	41.4	42.5	83	85	44-130	3	20	
Vinyl chloride	ug/L	ND	50	50	50.7	48.2	101	96	45-159	5	20	
Xylene (Total)	ug/L	ND	150	150	94.4	83.4	63	56	29-131	12	20	
4-Bromofluorobenzene (S)	%.						100	101	72-125		20	
Dibromofluoromethane (S)	%.						102	104	83-123		20	1d
Toluene-d8 (S)	%.						103	101	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5072674

QC Batch: MSV/48249
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 5072674003

METHOD BLANK: 838266
Matrix: Water
Associated Lab Samples: 5072674003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/01/12 03:44	
1,1-Dichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Benzene	ug/L	ND	5.0	12/01/12 03:44	
Carbon tetrachloride	ug/L	ND	5.0	12/01/12 03:44	
Chloroform	ug/L	ND	5.0	12/01/12 03:44	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Ethylbenzene	ug/L	ND	5.0	12/01/12 03:44	
Methylene Chloride	ug/L	ND	5.0	12/01/12 03:44	
Naphthalene	ug/L	ND	5.0	12/01/12 03:44	
Tetrachloroethene	ug/L	ND	5.0	12/01/12 03:44	
Toluene	ug/L	ND	5.0	12/01/12 03:44	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Trichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Vinyl chloride	ug/L	ND	2.0	12/01/12 03:44	
Xylene (Total)	ug/L	ND	10.0	12/01/12 03:44	
4-Bromofluorobenzene (S)	%.	94	72-125	12/01/12 03:44	
Dibromofluoromethane (S)	%.	102	83-123	12/01/12 03:44	
Toluene-d8 (S)	%.	105	81-114	12/01/12 03:44	

LABORATORY CONTROL SAMPLE: 838267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	103	69-126	
1,1-Dichloroethene	ug/L	50	41.8	84	75-145	
Benzene	ug/L	50	52.1	104	76-123	
Carbon tetrachloride	ug/L	50	53.7	107	65-125	
Chloroform	ug/L	50	52.5	105	73-122	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	79-129	
Ethylbenzene	ug/L	50	57.7	115	75-120	
Methylene Chloride	ug/L	50	51.8	104	61-138	
Naphthalene	ug/L	50	49.1	98	62-130	
Tetrachloroethene	ug/L	50	57.0	114	57-125	
Toluene	ug/L	50	55.5	111	72-124	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	71-145	
Trichloroethene	ug/L	50	58.4	117	77-122	
Vinyl chloride	ug/L	50	40.6	81	61-146	
Xylene (Total)	ug/L	150	167	111	72-126	
4-Bromofluorobenzene (S)	%.			109	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			103	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5072674

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 838268 838269

Parameter	Units	5072895007 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	47.0	43.6	94	87	37-136	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	38.8	38.9	78	78	54-152	.2	20	
Benzene	ug/L	ND	50	50	47.5	45.1	95	90	52-134	5	20	
Carbon tetrachloride	ug/L	ND	50	50	45.1	41.8	90	84	26-136	8	20	
Chloroform	ug/L	ND	50	50	47.6	45.9	95	92	50-134	4	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	44.4	43.1	89	86	48-145	3	20	
Ethylbenzene	ug/L	ND	50	50	30.7	28.5	53	49	29-132	7	20	
Methylene Chloride	ug/L	ND	50	50	50.6	49.3	101	99	47-141	3	20	
Naphthalene	ug/L	114	50	50	129	115	30	1	40-124	12	20	M0,R1
Tetrachloroethene	ug/L	ND	50	50	31.0	28.4	62	57	30-124	9	20	
Toluene	ug/L	ND	50	50	37.2	35.0	74	70	42-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.3	40.0	83	80	48-144	3	20	
Trichloroethene	ug/L	ND	50	50	41.0	38.9	82	78	44-130	5	20	
Vinyl chloride	ug/L	ND	50	50	38.5	36.5	77	73	45-159	5	20	
Xylene (Total)	ug/L	ND	150	150	87.0	80.4	54	50	29-131	8	20	
4-Bromofluorobenzene (S)	%.						98	99	72-125		20	
Dibromofluoromethane (S)	%.						103	102	83-123		20	
Toluene-d8 (S)	%.						102	106	81-114		20	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5072674

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 were outside the MS/MSD RPD control limits. HEB 11/30/12
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5072674

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5072674001	**MMW-C-17D**	EPA 8260	MSV/48190		
5072674002	**MMW-P-14S**	EPA 8260	MSV/48190		
5072674003	**MMW-P-14D**	EPA 8260	MSV/48249		

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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

1320274

Section A Required Client Information:

Company: Mundell & Assoc
Address: 110 S. Downey Ave
Indpls, IN 46219
Email To:
Phone: 317-636-9060 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mark Breting
Copy To:
Purchase Order No.:
Project Name: Michigan Plaza
Project Number: M01044

Section C Invoice Information:

Attention: Merk 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)	S.L. Vac's 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-C-107D	WT	G			11-20-12	1:07p		3				X						X		-001
2	MMW-P-141S	↓	↓			↓	2:22p		3				X						X		-002
3	MMW-P-14D	↓	↓			↓	3:02p		3				X						X		-003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

5072674

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	11/21/12	11:05	[signature]	11/21/12	11:05	1.4°C	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

WT 6 of 25
Pace Time 12:20 11/21/12

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 11-20-12

*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 # 5072674

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 chips

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 1.4°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: 11/21/12 [illegible]

				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. Washer
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: _____

Project Manager Review: T Sayer **Date:** 11/21/12

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

Sample Container Count

Pace Analytical
www.pacelabs.com

CLIENT: Mundell

COC PAGE 1 of 1
COC ID# 1320274

Project # 5072674

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2	3															
3	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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December 06, 2012

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

RE: Project: MI Plaza M01046
Pace Project No.: 5072762

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2012. 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.: 5072762

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.: 5072762

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5072762001	**MMW-P-04**	Water	11/21/12 12:11	11/27/12 11:13
5072762002	**MMW-15D**	Water	11/21/12 11:21	11/27/12 11:13
5072762003	**MMW-15S**	Water	11/21/12 10:17	11/27/12 11:13
5072762004	**Trip Blank**	Water	11/21/12 08:00	11/27/12 11:13

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5072762

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5072762001	**MMW-P-04**	EPA 8260	GRM	18
5072762002	**MMW-15D**	EPA 8260	AMV	18
5072762003	**MMW-15S**	EPA 8260	AMV	18
5072762004	**Trip Blank**	EPA 8260	AMV	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072762

Sample: MMW-P-04 **Lab ID: 5072762001** Collected: 11/21/12 12:11 Received: 11/27/12 11:13 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		12/04/12 08:38	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		12/04/12 08:38	56-23-5	
Chloroform	ND	ug/L	5.0	1		12/04/12 08:38	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/04/12 08:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/04/12 08:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/04/12 08:38	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		12/04/12 08:38	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		12/04/12 08:38	75-09-2	
Naphthalene	ND	ug/L	5.0	1		12/04/12 08:38	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		12/04/12 08:38	127-18-4	
Toluene	ND	ug/L	5.0	1		12/04/12 08:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/04/12 08:38	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		12/04/12 08:38	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		12/04/12 08:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/04/12 08:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	83-123	1		12/04/12 08:38	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		12/04/12 08:38	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		12/04/12 08:38	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072762

Sample: MMW-15D **Lab ID: 5072762002** Collected: 11/21/12 11:21 Received: 11/27/12 11:13 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		12/01/12 12:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		12/01/12 12:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		12/01/12 12:00	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/01/12 12:00	75-35-4	
cis-1,2-Dichloroethene	**10.6**	ug/L	5.0	1		12/01/12 12:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/12 12:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		12/01/12 12:00	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		12/01/12 12:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		12/01/12 12:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		12/01/12 12:00	127-18-4	
Toluene	ND	ug/L	5.0	1		12/01/12 12:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/01/12 12:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		12/01/12 12:00	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		12/01/12 12:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/01/12 12:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		12/01/12 12:00	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		12/01/12 12:00	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		12/01/12 12:00	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072762

Sample: MMW-15S **Lab ID: 5072762003** Collected: 11/21/12 10:17 Received: 11/27/12 11:13 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		12/01/12 12:38	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		12/01/12 12:38	56-23-5	
Chloroform	ND	ug/L	5.0	1		12/01/12 12:38	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/01/12 12:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/12 12:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/12 12:38	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		12/01/12 12:38	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		12/01/12 12:38	75-09-2	
Naphthalene	ND	ug/L	5.0	1		12/01/12 12:38	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		12/01/12 12:38	127-18-4	
Toluene	ND	ug/L	5.0	1		12/01/12 12:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/01/12 12:38	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		12/01/12 12:38	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		12/01/12 12:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/01/12 12:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		12/01/12 12:38	1868-53-7	
4-Bromofluorobenzene (S)	90	%.	72-125	1		12/01/12 12:38	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		12/01/12 12:38	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5072762

Sample: Trip Blank **Lab ID: 5072762004** Collected: 11/21/12 08:00 Received: 11/27/12 11:13 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		12/01/12 13:16	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		12/01/12 13:16	56-23-5	
Chloroform	ND	ug/L	5.0	1		12/01/12 13:16	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/01/12 13:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/12 13:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/12 13:16	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		12/01/12 13:16	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		12/01/12 13:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		12/01/12 13:16	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		12/01/12 13:16	127-18-4	
Toluene	ND	ug/L	5.0	1		12/01/12 13:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/01/12 13:16	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		12/01/12 13:16	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		12/01/12 13:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/01/12 13:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		12/01/12 13:16	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		12/01/12 13:16	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		12/01/12 13:16	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072762

QC Batch: MSV/48249 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5072762002, 5072762003, 5072762004

METHOD BLANK: 838266 Matrix: Water
Associated Lab Samples: 5072762002, 5072762003, 5072762004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/01/12 03:44	
1,1-Dichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Benzene	ug/L	ND	5.0	12/01/12 03:44	
Carbon tetrachloride	ug/L	ND	5.0	12/01/12 03:44	
Chloroform	ug/L	ND	5.0	12/01/12 03:44	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Ethylbenzene	ug/L	ND	5.0	12/01/12 03:44	
Methylene Chloride	ug/L	ND	5.0	12/01/12 03:44	
Naphthalene	ug/L	ND	5.0	12/01/12 03:44	
Tetrachloroethene	ug/L	ND	5.0	12/01/12 03:44	
Toluene	ug/L	ND	5.0	12/01/12 03:44	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Trichloroethene	ug/L	ND	5.0	12/01/12 03:44	
Vinyl chloride	ug/L	ND	2.0	12/01/12 03:44	
Xylene (Total)	ug/L	ND	10.0	12/01/12 03:44	
4-Bromofluorobenzene (S)	%.	94	72-125	12/01/12 03:44	
Dibromofluoromethane (S)	%.	102	83-123	12/01/12 03:44	
Toluene-d8 (S)	%.	105	81-114	12/01/12 03:44	

LABORATORY CONTROL SAMPLE: 838267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	103	69-126	
1,1-Dichloroethene	ug/L	50	41.8	84	75-145	
Benzene	ug/L	50	52.1	104	76-123	
Carbon tetrachloride	ug/L	50	53.7	107	65-125	
Chloroform	ug/L	50	52.5	105	73-122	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	79-129	
Ethylbenzene	ug/L	50	57.7	115	75-120	
Methylene Chloride	ug/L	50	51.8	104	61-138	
Naphthalene	ug/L	50	49.1	98	62-130	
Tetrachloroethene	ug/L	50	57.0	114	57-125	
Toluene	ug/L	50	55.5	111	72-124	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	71-145	
Trichloroethene	ug/L	50	58.4	117	77-122	
Vinyl chloride	ug/L	50	40.6	81	61-146	
Xylene (Total)	ug/L	150	167	111	72-126	
4-Bromofluorobenzene (S)	%.			109	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			103	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072762

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 838268 838269

Parameter	Units	5072895007 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	47.0	43.6	94	87	37-136	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	38.8	38.9	78	78	54-152	.2	20	
Benzene	ug/L	ND	50	50	47.5	45.1	95	90	52-134	5	20	
Carbon tetrachloride	ug/L	ND	50	50	45.1	41.8	90	84	26-136	8	20	
Chloroform	ug/L	ND	50	50	47.6	45.9	95	92	50-134	4	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	44.4	43.1	89	86	48-145	3	20	
Ethylbenzene	ug/L	ND	50	50	30.7	28.5	53	49	29-132	7	20	
Methylene Chloride	ug/L	ND	50	50	50.6	49.3	101	99	47-141	3	20	
Naphthalene	ug/L	114	50	50	129	115	30	1	40-124	12	20	M0,R1
Tetrachloroethene	ug/L	ND	50	50	31.0	28.4	62	57	30-124	9	20	
Toluene	ug/L	ND	50	50	37.2	35.0	74	70	42-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.3	40.0	83	80	48-144	3	20	
Trichloroethene	ug/L	ND	50	50	41.0	38.9	82	78	44-130	5	20	
Vinyl chloride	ug/L	ND	50	50	38.5	36.5	77	73	45-159	5	20	
Xylene (Total)	ug/L	ND	150	150	87.0	80.4	54	50	29-131	8	20	
4-Bromofluorobenzene (S)	%.						98	99	72-125		20	
Dibromofluoromethane (S)	%.						103	102	83-123		20	
Toluene-d8 (S)	%.						102	106	81-114		20	

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1233 Dublin Road
Columbus, OH 43215
(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.: 5072762

QC Batch: MSV/48289
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 5072762001

METHOD BLANK: 839077
Matrix: Water
Associated Lab Samples: 5072762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/04/12 02:55	
1,1-Dichloroethene	ug/L	ND	5.0	12/04/12 02:55	
Benzene	ug/L	ND	5.0	12/04/12 02:55	
Carbon tetrachloride	ug/L	ND	5.0	12/04/12 02:55	
Chloroform	ug/L	ND	5.0	12/04/12 02:55	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/04/12 02:55	
Ethylbenzene	ug/L	ND	5.0	12/04/12 02:55	
Methylene Chloride	ug/L	ND	5.0	12/04/12 02:55	
Naphthalene	ug/L	ND	5.0	12/04/12 02:55	
Tetrachloroethene	ug/L	ND	5.0	12/04/12 02:55	
Toluene	ug/L	ND	5.0	12/04/12 02:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/04/12 02:55	
Trichloroethene	ug/L	ND	5.0	12/04/12 02:55	
Vinyl chloride	ug/L	ND	2.0	12/04/12 02:55	
Xylene (Total)	ug/L	ND	10.0	12/04/12 02:55	
4-Bromofluorobenzene (S)	%.	101	72-125	12/04/12 02:55	
Dibromofluoromethane (S)	%.	105	83-123	12/04/12 02:55	
Toluene-d8 (S)	%.	103	81-114	12/04/12 02:55	

LABORATORY CONTROL SAMPLE: 839078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.5	97	69-126	
1,1-Dichloroethene	ug/L	50	44.8	90	75-145	
Benzene	ug/L	50	50.5	101	76-123	
Carbon tetrachloride	ug/L	50	48.7	97	65-125	
Chloroform	ug/L	50	46.0	92	73-122	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	79-129	
Ethylbenzene	ug/L	50	50.5	101	75-120	
Methylene Chloride	ug/L	50	45.5	91	61-138	
Naphthalene	ug/L	50	40.2	80	62-130	
Tetrachloroethene	ug/L	50	49.7	99	57-125	
Toluene	ug/L	50	51.9	104	72-124	
trans-1,2-Dichloroethene	ug/L	50	44.1	88	71-145	
Trichloroethene	ug/L	50	48.3	97	77-122	
Vinyl chloride	ug/L	50	43.7	87	61-146	
Xylene (Total)	ug/L	150	149	100	72-126	
4-Bromofluorobenzene (S)	%.			98	72-125	
Dibromofluoromethane (S)	%.			97	83-123	
Toluene-d8 (S)	%.			101	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5072762

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 839079 839080

Parameter	Units	5072762001 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	41.7	44.5	83	89	37-136	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	40.7	41.5	81	83	54-152	2	20	
Benzene	ug/L	ND	50	50	40.8	42.7	82	85	52-134	5	20	
Carbon tetrachloride	ug/L	ND	50	50	42.3	45.4	85	91	26-136	7	20	
Chloroform	ug/L	ND	50	50	44.4	47.6	89	95	50-134	7	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	44.5	47.4	89	95	48-145	6	20	
Ethylbenzene	ug/L	ND	50	50	28.3	27.4	57	55	29-132	3	20	
Methylene Chloride	ug/L	ND	50	50	48.3	63.5	97	127	47-141	27	20	R1
Naphthalene	ug/L	ND	50	50	31.4	31.0	63	62	40-124	1	20	
Tetrachloroethene	ug/L	ND	50	50	30.5	29.8	61	60	30-124	3	20	
Toluene	ug/L	ND	50	50	38.4	36.0	77	72	42-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	40.0	42.2	80	84	48-144	5	20	
Trichloroethene	ug/L	ND	50	50	38.9	37.3	78	75	44-130	4	20	
Vinyl chloride	ug/L	ND	50	50	30.7	33.5	61	67	45-159	9	20	
Xylene (Total)	ug/L	ND	150	150	82.4	77.6	55	52	29-131	6	20	
4-Bromofluorobenzene (S)	%.						103	100	72-125		20	
Dibromofluoromethane (S)	%.						96	98	83-123		20	
Toluene-d8 (S)	%.						105	103	81-114		20	

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5072762

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.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5072762

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5072762001	**MMW-P-04**	EPA 8260	MSV/48289		
5072762002	**MMW-15D**	EPA 8260	MSV/48249		
5072762003	**MMW-15S**	EPA 8260	MSV/48249		
5072762004	**Trip Blank**	EPA 8260	MSV/48249		

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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

1557972

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 Bretney
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): Analysis Test: SVOC's 8260

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)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-D-04	WT	G			11/21/12	12:11P		3				X					X		5072762-001
2	MMW-15D						11:21A		3				X							-002
3	MMW-15S						10:17A		3				X							-003
4	Trip Blank								3				X							-004
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	11/27/12	11:10	[signature]	11/27/12	11:10	3.8

WT/PACE

ORIGINAL
H.S. 11-27-12
12:28

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Ammons
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 11/21/12

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: Mendell

Project # 5072762

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 6 A B C D E **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.8 **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: 11-27-12 JS

				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.
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: T Sayer **Date:** 11/27/12

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

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1

COC ID#

Project # 5072762

Pace Analytical
www.pacelabs.com

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2	3															
3	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

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

December 6, 2012

Merle Tebbe
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MICHIGAN PLAZA / M01046**

Microseeps Workorder: 7346

Dear Merle Tebbe:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, November 21, 2012. 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,

Julianne Rugh 12/06/2012
jrugh@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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3004 1 0.0

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Phone: (412) 826-5245
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: 7346 MICHIGAN PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
73460001	MMW-P-03S	Water	11/14/2012 09:32	11/21/2012 08:00
73460002	MMW-P-03D	Water	11/14/2012 10:00	11/21/2012 08:00
73460003	DUP-1	Water	11/14/2012 00:00	11/21/2012 08:00
73460004	MMW-P-02	Water	11/14/2012 10:44	11/21/2012 08:00
73460005	MMW-P-05	Water	11/14/2012 11:30	11/21/2012 08:00
73460006	MMW-P-10S	Water	11/14/2012 12:06	11/21/2012 08:00
73460007	MMW-P-10D	Water	11/14/2012 12:40	11/21/2012 08:00
73460008	MMW-P-08	Water	11/14/2012 13:18	11/21/2012 08:00
73460009	MMW-P-07	Water	11/14/2012 13:47	11/21/2012 08:00
73460010	MMW-P-01	Water	11/14/2012 14:21	11/21/2012 08:00
73460011	MMW-P-06	Water	11/14/2012 14:55	11/21/2012 08:00
73460012	MMW-9S	Water	11/14/2012 15:30	11/21/2012 08:00
73460013	MMW-10S	Water	11/15/2012 11:03	11/21/2012 08:00
73460014	MMW-1S	Water	11/15/2012 11:32	11/21/2012 08:00
73460015	MMW-8S	Water	11/15/2012 12:04	11/21/2012 08:00
73460016	MMW-C-01	Water	11/15/2012 12:42	11/21/2012 08:00
73460017	MMW-P-11S	Water	11/15/2012 13:37	11/21/2012 08:00
73460018	MMW-P-11DR	Water	11/15/2012 14:55	11/21/2012 08:00
73460019	MMW-P-12S	Water	11/19/2012 09:35	11/21/2012 08:00
73460020	MMW-P-12D	Water	11/19/2012 10:35	11/21/2012 08:00
73460021	MS	Water	11/14/2012 15:30	11/21/2012 08:00
73460022	MSD	Water	11/14/2012 15:30	11/21/2012 08:00

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PROJECT SUMMARY

Workorder: 7346 MICHIGAN PLAZA / M01046

Batch Comments

Batch: DISG/2615 - 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. 73460012. Analyte Methane Batch acceptance based on laboratory control sample recovery.

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460001** Date Received: 11/21/2012 08:00 Matrix: Water
Sample ID: **MMW-P-03S** Date Collected: 11/14/2012 09:32

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			11/27/2012 12:44	KB	
Acetic Acid	**0.042J**	mg/l	0.070	0.021	1			11/27/2012 12:44	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 12:44	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 12:44	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 12:44	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 12:44	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 12:44	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 12:44	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 12:44	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.018	1			11/27/2012 14:32	BW	
Ethane	**0.74**	ug/l	0.025	0.0070	1			11/27/2012 14:32	BW	
Ethene	**240**	ug/l	0.025	0.0050	1			11/27/2012 14:32	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460002** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-03D** Date Collected: 11/14/2012 10:00

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			11/27/2012 13:26	KB	
Acetic Acid	**16**	mg/l	0.70	0.21	10			11/28/2012 06:59	KB	
Propionic Acid	**0.43J**	mg/l	0.50	0.040	10			11/28/2012 06:59	KB	
Butyric Acid	**0.083**	mg/l	0.050	0.0070	1			11/27/2012 13:26	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 13:26	KB	
i-Pentanoic Acid	**0.055J**	mg/l	0.15	0.012	1			11/27/2012 13:26	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 13:26	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 13:26	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 13:26	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**20000**	ug/l	0.10	0.018	1			11/27/2012 14:42	BW	
Ethane	**47**	ug/l	0.025	0.0070	1			11/27/2012 14:42	BW	
Ethene	**820**	ug/l	0.025	0.0050	1			11/27/2012 14:42	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460003** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **DUP-1** Date Collected: 11/14/2012 00:00

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			11/27/2012 14:08	KB	
Acetic Acid	**15**	mg/l	0.70	0.21	10			11/28/2012 07:41	KB	
Propionic Acid	**0.56**	mg/l	0.50	0.040	10			11/28/2012 07:41	KB	
Butyric Acid	**0.077**	mg/l	0.050	0.0070	1			11/27/2012 14:08	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 14:08	KB	
i-Pentanoic Acid	**0.056J**	mg/l	0.15	0.012	1			11/27/2012 14:08	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 14:08	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 14:08	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 14:08	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**22000**	ug/l	0.10	0.018	1			11/27/2012 14:54	BW	
Ethane	**49**	ug/l	0.025	0.0070	1			11/27/2012 14:54	BW	
Ethene	**870**	ug/l	0.025	0.0050	1			11/27/2012 14:54	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460004** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-02** Date Collected: 11/14/2012 10:44

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			11/27/2012 14:51	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0.021	1			11/27/2012 14:51	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 14:51	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 14:51	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 14:51	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 14:51	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 14:51	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 14:51	KB	
Hexanoic Acid	**0.67J**	mg/l	1.0	0.39	10			11/28/2012 08:23	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.018	1			11/27/2012 15:05	BW	
Ethane	**1.2**	ug/l	0.025	0.0070	1			11/27/2012 15:05	BW	
Ethene	**570**	ug/l	0.025	0.0050	1			11/27/2012 15:05	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460005** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-05** Date Collected: 11/14/2012 11:30

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			11/27/2012 15:33	KB	
Acetic Acid	**0.24**	mg/l	0 070	0 021	1			11/27/2012 15:33	KB	
Propionic Acid	**0.050 U**	mg/l	0 050	0 0040	1			11/27/2012 15:33	KB	
Butyric Acid	**0.050 U**	mg/l	0 050	0 0070	1			11/27/2012 15:33	KB	
Pyruvic Acid	**0.15 U**	mg/l	0 15	0 0040	1			11/27/2012 15:33	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0 15	0 012	1			11/27/2012 15:33	KB	
Pentanoic Acid	**0.070 U**	mg/l	0 070	0 010	1			11/27/2012 15:33	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0 050	0 013	1			11/27/2012 15:33	KB	
Hexanoic Acid	**0.10 U**	mg/l	0 10	0 039	1			11/27/2012 15:33	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**6300**	ug/l	0 10	0 018	1			11/27/2012 15:15	BW	
Ethane	**0.19**	ug/l	0 025	0 0070	1			11/27/2012 15:15	BW	
Ethene	**4.8**	ug/l	0 025	0 0050	1			11/27/2012 15:15	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460006** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-10S** Date Collected: 11/14/2012 12:06

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			11/27/2012 16:15	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0.021	1			11/27/2012 16:15	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 16:15	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 16:15	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 16:15	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 16:15	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 16:15	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 16:15	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 16:15	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**7400**	ug/l	0.10	0.018	1			11/27/2012 15:25	BW	
Ethane	**2.2**	ug/l	0.025	0.0070	1			11/27/2012 15:25	BW	
Ethene	**10**	ug/l	0.025	0.0050	1			11/27/2012 15:25	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460007** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-10D** Date Collected: 11/14/2012 12:40

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			11/27/2012 16:57	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0.021	1			11/27/2012 16:57	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 16:57	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 16:57	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 16:57	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 16:57	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 16:57	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 16:57	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 16:57	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**22000**	ug/l	0.10	0.018	1			11/27/2012 15:35	BW	
Ethane	**2.0**	ug/l	0.025	0.0070	1			11/27/2012 15:35	BW	
Ethene	**160**	ug/l	0.025	0.0050	1			11/27/2012 15:35	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460008** Date Received: 11/21/2012 08:00 Matrix: Water
Sample ID: **MMW-P-08** Date Collected: 11/14/2012 13:18

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			11/27/2012 17:39	KB	
Acetic Acid	**0.030J**	mg/l	0.070	0.021	1			11/27/2012 17:39	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 17:39	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 17:39	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 17:39	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 17:39	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 17:39	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 17:39	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 17:39	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**7000**	ug/l	0.10	0.018	1			11/27/2012 15:45	BW	
Ethane	**9.3**	ug/l	0.025	0.0070	1			11/27/2012 15:45	BW	
Ethene	**230**	ug/l	0.025	0.0050	1			11/27/2012 15:45	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460009** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-07** Date Collected: 11/14/2012 13:47

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.055J**	mg/l	0.10	0.032	1			11/27/2012 18:21	KB	
Acetic Acid	**0.051J**	mg/l	0.070	0.021	1			11/27/2012 18:21	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 18:21	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 18:21	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 18:21	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 18:21	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 18:21	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 18:21	KB	
Hexanoic Acid	**0.052J**	mg/l	0.10	0.039	1			11/27/2012 18:21	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**6200**	ug/l	0.10	0.018	1			11/27/2012 15:55	BW	
Ethane	**0.13**	ug/l	0.025	0.0070	1			11/27/2012 15:55	BW	
Ethene	**180**	ug/l	0.025	0.0050	1			11/27/2012 15:55	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460010** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-01** Date Collected: 11/14/2012 14:21

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			11/27/2012 19:03	KB	
Acetic Acid	**0.058J**	mg/l	0.070	0.021	1			11/27/2012 19:03	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 19:03	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 19:03	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 19:03	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 19:03	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 19:03	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 19:03	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 19:03	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**10000**	ug/l	0.10	0.018	1			11/27/2012 16:06	BW	
Ethane	**0.43**	ug/l	0.025	0.0070	1			11/27/2012 16:06	BW	
Ethene	**540**	ug/l	0.025	0.0050	1			11/27/2012 16:06	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460011** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-06** Date Collected: 11/14/2012 14:55

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			11/27/2012 19:45	KB	
Acetic Acid	**0.063J**	mg/l	0.070	0.021	1			11/27/2012 19:45	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 19:45	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 19:45	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 19:45	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 19:45	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 19:45	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 19:45	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 19:45	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**16000**	ug/l	0.10	0.018	1			11/27/2012 16:17	BW	
Ethane	**0.74**	ug/l	0.025	0.0070	1			11/27/2012 16:17	BW	
Ethene	**500**	ug/l	0.025	0.0050	1			11/27/2012 16:17	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460012** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-9S** Date Collected: 11/14/2012 15:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.12**	mg/l	0.10	0.032	1			11/27/2012 20:27	KB	
Acetic Acid	**0.072**	mg/l	0.070	0.021	1			11/27/2012 20:27	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 20:27	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 20:27	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 20:27	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 20:27	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 20:27	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 20:27	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 20:27	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**5800**	ug/l	0.10	0.018	1			11/28/2012 08:54	GT	
Ethane	**1.3**	ug/l	0.025	0.0070	1			11/28/2012 08:54	GT	
Ethene	**27**	ug/l	0.025	0.0050	1			11/28/2012 08:54	GT	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460013** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-10S** Date Collected: 11/15/2012 11:03

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			11/27/2012 21:10	KB	
Acetic Acid	**0.051J**	mg/l	0.070	0.021	1			11/27/2012 21:10	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 21:10	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 21:10	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 21:10	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 21:10	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 21:10	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 21:10	KB	
Hexanoic Acid	**0.12**	mg/l	0.10	0.039	1			11/27/2012 21:10	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**9800**	ug/l	0.10	0.018	1			11/29/2012 16:13	BW	
Ethane	**0.084**	ug/l	0.025	0.0070	1			11/29/2012 16:13	BW	
Ethene	**9.4**	ug/l	0.025	0.0050	1			11/29/2012 16:13	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460014** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-1S** Date Collected: 11/15/2012 11:32

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.032J**	mg/l	0.10	0.032	1			11/27/2012 21:52	KB	
Acetic Acid	**0.040J**	mg/l	0.070	0.021	1			11/27/2012 21:52	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 21:52	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 21:52	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 21:52	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 21:52	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 21:52	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 21:52	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 21:52	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**390**	ug/l	0.10	0.018	1			11/29/2012 16:25	BW	
Ethane	**0.034**	ug/l	0.025	0.0070	1			11/29/2012 16:25	BW	
Ethene	**0.11**	ug/l	0.025	0.0050	1			11/29/2012 16:25	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460015** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-8S** Date Collected: 11/15/2012 12:04

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.040J**	mg/l	0.10	0.032	1			11/27/2012 22:34	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0.021	1			11/27/2012 22:34	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 22:34	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/27/2012 22:34	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/27/2012 22:34	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/27/2012 22:34	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/27/2012 22:34	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/27/2012 22:34	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/27/2012 22:34	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**13000**	ug/l	0.10	0.018	1			11/29/2012 16:38	BW	
Ethane	**0.017J**	ug/l	0.025	0.0070	1			11/29/2012 16:38	BW	
Ethene	**10**	ug/l	0.025	0.0050	1			11/29/2012 16:38	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460016** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-C-01** Date Collected: 11/15/2012 12:42

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			11/27/2012 23:16	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0 021	1			11/27/2012 23:16	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/27/2012 23:16	KB	
Butyric Acid	**0.050 U**	mg/l	0 050	0 0070	1			11/27/2012 23:16	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0 0040	1			11/27/2012 23:16	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0 15	0 012	1			11/27/2012 23:16	KB	
Pentanoic Acid	**0.070 U**	mg/l	0 070	0 010	1			11/27/2012 23:16	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0 050	0 013	1			11/27/2012 23:16	KB	
Hexanoic Acid	**0.10 U**	mg/l	0 10	0 039	1			11/27/2012 23:16	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**11000**	ug/l	0.10	0.018	1			11/29/2012 16:51	BW	
Ethane	**0.026**	ug/l	0 025	0 0070	1			11/29/2012 16:51	BW	
Ethene	**2.3**	ug/l	0 025	0 0050	1			11/29/2012 16:51	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460017** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-11S** Date Collected: 11/15/2012 13:37

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.035J**	mg/l	0 10	0 032	1			11/27/2012 23:58	KB	
Acetic Acid	**0.046J**	mg/l	0 070	0 021	1			11/27/2012 23:58	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0 0040	1			11/27/2012 23:58	KB	
Butyric Acid	**0.050 U**	mg/l	0 050	0 0070	1			11/27/2012 23:58	KB	
Pyruvic Acid	**0.15 U**	mg/l	0 15	0 0040	1			11/27/2012 23:58	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0 15	0 012	1			11/27/2012 23:58	KB	
Pentanoic Acid	**0.070 U**	mg/l	0 070	0 010	1			11/27/2012 23:58	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0 050	0 013	1			11/27/2012 23:58	KB	
Hexanoic Acid	**0.10 U**	mg/l	0 10	0 039	1			11/27/2012 23:58	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**5200**	ug/l	0 10	0 018	1			11/29/2012 17:04	BW	
Ethane	**0.18**	ug/l	0 025	0 0070	1			11/29/2012 17:04	BW	
Ethene	**3.8**	ug/l	0 025	0.0050	1			11/29/2012 17:04	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460018** Date Received: 11/21/2012 08:00 Matrix: Water
Sample ID: **MMW-P-11DR** Date Collected: 11/15/2012 14:55

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			11/28/2012 00:40	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0.021	1			11/28/2012 00:40	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/28/2012 00:40	KB	
Butyric Acid	**0.050 U**	mg/l	0 050	0.0070	1			11/28/2012 00:40	KB	
Pyruvic Acid	**0.15 U**	mg/l	0 15	0 0040	1			11/28/2012 00:40	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0 15	0.012	1			11/28/2012 00:40	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/28/2012 00:40	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/28/2012 00:40	KB	
Hexanoic Acid	**0.10 U**	mg/l	0 10	0.039	1			11/28/2012 00:40	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**6200**	ug/l	0 10	0.018	1			11/29/2012 17:17	BW	
Ethane	**1.2**	ug/l	0.025	0 0070	1			11/29/2012 17:17	BW	
Ethene	**19**	ug/l	0.025	0 0050	1			11/29/2012 17:17	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460019** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-12S** Date Collected: 11/19/2012 09:35

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			11/28/2012 01:22	KB	
Acetic Acid	**0.052J**	mg/l	0 070	0 021	1			11/28/2012 01:22	KB	
Propionic Acid	**0.050 U**	mg/l	0 050	0 0040	1			11/28/2012 01:22	KB	
Butyric Acid	**0.050 U**	mg/l	0 050	0 0070	1			11/28/2012 01:22	KB	
Pyruvic Acid	**0.15 U**	mg/l	0 15	0 0040	1			11/28/2012 01:22	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0 15	0 012	1			11/28/2012 01:22	KB	
Pentanoic Acid	**0.070 U**	mg/l	0 070	0 010	1			11/28/2012 01:22	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0 050	0 013	1			11/28/2012 01:22	KB	
Hexanoic Acid	**0.10 U**	mg/l	0 10	0 039	1			11/28/2012 01:22	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**33**	ug/l	0 10	0 018	1			11/29/2012 17:31	BW	
Ethane	**0.88**	ug/l	0.025	0 0070	1			11/29/2012 17:31	BW	
Ethene	**0.67**	ug/l	0.025	0 0050	1			11/29/2012 17:31	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460020** Date Received: 11/21/2012 08:00 Matrix: Water

Sample ID: **MMW-P-12D** Date Collected: 11/19/2012 10:35

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			11/28/2012 02:04	KB	
Acetic Acid	**0.052J**	mg/l	0.070	0.021	1			11/28/2012 02:04	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0040	1			11/28/2012 02:04	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1			11/28/2012 02:04	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0040	1			11/28/2012 02:04	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.012	1			11/28/2012 02:04	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.010	1			11/28/2012 02:04	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.013	1			11/28/2012 02:04	KB	
Hexanoic Acid	**0.10 U**	mg/l	0.10	0.039	1			11/28/2012 02:04	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**20**	ug/l	0.10	0.018	1			11/29/2012 17:43	BW	
Ethane	**1.2**	ug/l	0.025	0.0070	1			11/29/2012 17:43	BW	
Ethene	**0.65**	ug/l	0.025	0.0050	1			11/29/2012 17:43	BW	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460021** Date Received: 11/21/2012 08:00 Matrix: Water
Sample ID: **MS** Date Collected: 11/14/2012 15:30

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			11/28/2012 02:47	KB	
Acetic Acid	**2.0**	mg/l	0.070	0.021	1			11/28/2012 02:47	KB	
Propionic Acid	**1.9**	mg/l	0.050	0.0040	1			11/28/2012 02:47	KB	
Butyric Acid	**1.9**	mg/l	0.050	0.0070	1			11/28/2012 02:47	KB	
Pyruvic Acid	**2.0**	mg/l	0.15	0.0040	1			11/28/2012 02:47	KB	
i-Pentanoic Acid	**1.8**	mg/l	0.15	0.012	1			11/28/2012 02:47	KB	
Pentanoic Acid	**1.8**	mg/l	0.070	0.010	1			11/28/2012 02:47	KB	
i-Hexanoic Acid	**2.3**	mg/l	0.050	0.013	1			11/28/2012 02:47	KB	
Hexanoic Acid	**1.8**	mg/l	0.10	0.039	1			11/28/2012 02:47	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**8000**	ug/l	0.10	0.018	1			11/28/2012 09:09	GT	
Ethane	**56**	ug/l	0.025	0.0070	1			11/28/2012 09:09	GT	
Ethene	**78**	ug/l	0.025	0.0050	1			11/28/2012 09:09	GT	

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ANALYTICAL RESULTS

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID: **73460022** Date Received: 11/21/2012 08:00 Matrix: Water
Sample ID: **MSD** Date Collected: 11/14/2012 15:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**2.1**	mg/l	0.10	0.032	1			11/28/2012 03:29	KB	
Acetic Acid	**2.0**	mg/l	0.070	0.021	1			11/28/2012 03:29	KB	
Propionic Acid	**1.9**	mg/l	0.050	0.0040	1			11/28/2012 03:29	KB	
Butyric Acid	**1.9**	mg/l	0.050	0.0070	1			11/28/2012 03:29	KB	
Pyruvic Acid	**2.0**	mg/l	0.15	0.0040	1			11/28/2012 03:29	KB	
i-Pentanoic Acid	**1.8**	mg/l	0.15	0.012	1			11/28/2012 03:29	KB	
Pentanoic Acid	**1.8**	mg/l	0.070	0.010	1			11/28/2012 03:29	KB	
i-Hexanoic Acid	**2.0**	mg/l	0.050	0.013	1			11/28/2012 03:29	KB	
Hexanoic Acid	**1.9**	mg/l	0.10	0.039	1			11/28/2012 03:29	KB	
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**8000**	ug/l	0.10	0.018	1			11/28/2012 09:21	GT	
Ethane	**51**	ug/l	0.025	0.0070	1			11/28/2012 09:21	GT	
Ethene	**77**	ug/l	0.025	0.0050	1			11/28/2012 09:21	GT	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 7346 MICHIGAN PLAZA / M01046

PARAMETER 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)

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QUALITY CONTROL DATA

Workorder: 7346 MICHIGAN PLAZA / M01046

QC Batch: DISG/2614 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 73460001, 73460002, 73460003, 73460004, 73460005, 73460006, 73460007, 73460008, 73460009, 73460010, 73460011

METHOD BLANK: 16161

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: 16162 16163

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	40	41	96	97	80-120	1	20	
Ethene	ug/l	39	37	38	95	97	80-120	2.1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16164 16165 Original: 73200001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	0.071	820	820	760	100	92	70-130	8.3	20	
Ethane	ug/l	0.0063	42	42	37	100	89	70-130	12	20	
Ethene	ug/l	0.0083	39	39	35	100	90	70-130	11	20	

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

QUALITY CONTROL DATA

Workorder: 7346 MICHIGAN PLAZA / M01046

QC Batch: DISG/2615 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 73460012, 73460021, 73460022

METHOD BLANK: 16181

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: 16183 16185

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	770	830	94	101	80-120	7.2	20	
Ethane	ug/l	42	44	47	106	113	80-120	6.4	20	
Ethene	ug/l	39	40	43	104	110	80-120	5.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16214 16215 Original: 73460012

Parameter	Units	Original Result	Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	5800	820	8000	8000	260	263	70-130	1 1	20	
Ethane	ug/l	1 3	42	56	51	130	120	70-130	8	20	
Ethene	ug/l	27	39	78	77	133	129	70-130	3 1	20	

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QUALITY CONTROL DATA

Workorder: 7346 MICHIGAN PLAZA / M01046

QC Batch: EDON/1598 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 73460001, 73460002, 73460003, 73460004, 73460005, 73460006, 73460007, 73460008, 73460009, 73460010, 73460011, 73460012, 73460013, 73460014, 73460015, 73460016, 73460017, 73460018, 73460019, 73460020, 73460021, 73460022

METHOD BLANK: 16195

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: 16196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	1.9	95	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	95	70-130	
Pyruvic Acid	mg/l	2	2.0	98	70-130	
i-Pentanoic Acid	mg/l	2	1.8	90	70-130	
Pentanoic Acid	mg/l	2	1.8	91	70-130	
i-Hexanoic Acid	mg/l	2	1.7	86	70-130	
Hexanoic Acid	mg/l	2	1.7	87	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16197 16198 Original: 73460012

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	0.12	2	2.0	2.1	92	98	70-130	6.3	30	
Acetic Acid	mg/l	0.072	2	2.0	2.0	98	97	70-130	1	30	

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QUALITY CONTROL DATA

Workorder: 7346 MICHIGAN PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16197 16198 Original: 73460012

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	1 9	1 9	97	96	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	2 0	2 0	99	98	70-130	1	30	
i-Pentanoic Acid	mg/l	0	2	1 8	1 8	88	90	70-130	2 2	30	
Pentanoic Acid	mg/l	0	2	1 8	1 8	88	91	70-130	3.4	30	
i-Hexanoic Acid	mg/l	0	2	2.3	2 0	114	98	70-130	15	30	
Hexanoic Acid	mg/l	0	2	1 8	1 9	89	94	70-130	5.5	30	

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QUALITY CONTROL DATA

Workorder: 7346 MICHIGAN PLAZA / M01046

QC Batch: DISG/2618 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 73460013. 73460014. 73460015. 73460016. 73460017, 73460018. 73460019. 73460020

METHOD BLANK: 16223

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: 16224 16225

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	820	800	99	97	80-120	2	20	
Ethane	ug/l	42	42	44	102	105	80-120	2 9	20	
Ethene	ug/l	39	39	40	100	104	80-120	3 9	20	

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QUALITY CONTROL DATA

Workorder: 7346 MICHIGAN PLAZA / M01046

QC Batch: EDON/1604 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 73460002. 73460003. 73460004

METHOD BLANK: 16320

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	
Hexanoic Acid	mg/l	0.10 U	0 10	

LABORATORY CONTROL SAMPLE: 16321

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	98	70-130	
Hexanoic Acid	mg/l	2	1 8	88	70-130	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
73460001	MMW-P-03S			AM20GAX	DISG/2614
73460002	MMW-P-03D			AM20GAX	DISG/2614
73460003	DUP-1			AM20GAX	DISG/2614
73460004	MMW-P-02			AM20GAX	DISG/2614
73460005	MMW-P-05			AM20GAX	DISG/2614
73460006	MMW-P-10S			AM20GAX	DISG/2614
73460007	MMW-P-10D			AM20GAX	DISG/2614
73460008	MMW-P-08			AM20GAX	DISG/2614
73460009	MMW-P-07			AM20GAX	DISG/2614
73460010	MMW-P-01			AM20GAX	DISG/2614
73460011	MMW-P-06			AM20GAX	DISG/2614
73460012	MMW-9S			AM20GAX	DISG/2615
73460021	MS			AM20GAX	DISG/2615
73460022	MSD			AM20GAX	DISG/2615
73460001	MMW-P-03S			AM23G	EDON/1598
73460002	MMW-P-03D			AM23G	EDON/1598
73460003	DUP-1			AM23G	EDON/1598
73460004	MMW-P-02			AM23G	EDON/1598
73460005	MMW-P-05			AM23G	EDON/1598
73460006	MMW-P-10S			AM23G	EDON/1598
73460007	MMW-P-10D			AM23G	EDON/1598
73460008	MMW-P-08			AM23G	EDON/1598
73460009	MMW-P-07			AM23G	EDON/1598
73460010	MMW-P-01			AM23G	EDON/1598
73460011	MMW-P-06			AM23G	EDON/1598
73460012	MMW-9S			AM23G	EDON/1598
73460013	MMW-10S			AM23G	EDON/1598
73460014	MMW-1S			AM23G	EDON/1598
73460015	MMW-8S			AM23G	EDON/1598
73460016	MMW-C-01			AM23G	EDON/1598
73460017	MMW-P-11S			AM23G	EDON/1598
73460018	MMW-P-11DR			AM23G	EDON/1598

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 7346 MICHIGAN PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
73460019	MMW-P-12S			AM23G	EDON/1598
73460020	MMW-P-12D			AM23G	EDON/1598
73460021	MS			AM23G	EDON/1598
73460022	MSD			AM23G	EDON/1598
73460013	MMW-10S			AM20GAX	DISG/2618
73460014	MMW-1S			AM20GAX	DISG/2618
73460015	MMW-8S			AM20GAX	DISG/2618
73460016	MMW-C-01			AM20GAX	DISG/2618
73460017	MMW-P-11S			AM20GAX	DISG/2618
73460018	MMW-P-11DR			AM20GAX	DISG/2618
73460019	MMW-P-12S			AM20GAX	DISG/2618
73460020	MMW-P-12D			AM20GAX	DISG/2618
73460002	MMW-P-03D			AM23G	EDON/1604
73460003	DUP-1			AM23G	EDON/1604
73460004	MMW-P-02			AM23G	EDON/1604

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Microseeps Lab. Proj. # 7346

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

Phone # : 317-630-9060 Fax # :

Proj. Manager : Mark Breting

Proj. Name/Number : Michigan Plaza / M01046

Sampler's signature : [signature]

Cooler Temp. 3°C

Results to : Mark Breting

Invoice to : Merle Tebbe

Parameters Requested: MEE AM20GAX; VFA Low Level AM23G

	Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# bottles	MEE AM20GAX	VFA Low Level AM23G	Remarks :
1	MMW-P-03S	WT	X			11.14.12	9:32A	4	X	X	
2	MMW-P-03D						10:00A	4			
3	DUP 1							4			
4	MMW-P-02						10:44A	4			
5	MMW-P-05						11:30A	4			
6	MMW-P-10S						12:06p	4			
7	MMW-P-10D						12:40p	4			
8	MMW-P-08						1:18p	4			
9	MMW-P-07						1:47p	4			
10	MMW-P-01						2:21p	4			
11	MMW-P-06						2:55p	4			
12	MMW-9S ~~(MS/MSD)~~						3:30p	~~12~~ 4			

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	Mundell	11.20.12	11:00A	[signature]	MS	11-21-12	0800
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. # 7346

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 46219
Phone # : 317-630-9060 Fax # :
Proj. Manager : Mark Breting
Proj. Name/Number : Michigan Plaza / MU1046
Sampler's signature : A. D

Cooler Temp. 3°C

Results to : Mark Breting

Invoice to : Mark Tebbe

	Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# bottles	MEE AM20 GAX	VFA low level AM23G	Remarks :
13	MMW-10 S					11.15.12	11:03A	4	X	X	
14	MMW-1S						11:32A	4			
15	MMW-8S						12:04p	4			
16	MMW-C-01						12:42p	4			
17	MMW-p-11S						1:37p	4			
18	MMW-p-11DR						2:55p	4			
19	MMW-p-12S					11.19.12	9:35A	4			
20	MMW-p-12D						10:35A	4			
21	MS/MSD					11.14.12	3:30p	8			
22											

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Andy D	Mundell	11.20.12	11:00A	[illegible]	MS	11-21-12	0800
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

Cooler Receipt Form

Client Name: Mundell & Ass. Project: Michigan Plaza /M 01046 Lab Work Order: 7346

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 79411445 7712

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: 3°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: HCY Date: 11-21-12

Project Manager Review: RAR Date: 11-21-12

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

January 14, 2013

Merle Tebbe
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MI PLAZA / M01046**
Microseeps Workorder: 7756

Dear Merle Tebbe:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, January 04, 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,

Julianne Rugh (KL) 1/15/13

Julianne Rugh 01/14/2013
jrugh@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 12

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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: 7756 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
77560001	B-1	Vapor	12/31/2012 14:31	1/4/2013 11:00
77560002	B-2	Vapor	12/31/2012 14:22	1/4/2013 11:00
77560003	B-3	Vapor	12/31/2012 14:12	1/4/2013 11:00
77560004	B-4	Vapor	12/31/2012 14:06	1/4/2013 11:00

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ANALYTICAL RESULTS

Workorder: 7756 MI PLAZA / M01046

Lab ID: **77560001** Date Received: 1/4/2013 11:00 Matrix: Vapor

Sample ID: **B-1** Date Collected: 12/31/2012 14:31

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	**0.33J**	ppmv	1.0	0.095	1			1/8/2013 10:37	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 10:37	SL	
Methylene Chloride	**0.52J**	ppmv	2.0	0.19	1			1/8/2013 10:37	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			1/8/2013 10:37	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			1/8/2013 10:37	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			1/8/2013 10:37	SL	
Chloroform	**0.0025J**	ppmv	0.0050	0.0010	1			1/8/2013 10:37	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 10:37	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 10:37	SL	
Trichloroethene	**0.0021J**	ppmv	0.010	0.0010	1			1/8/2013 10:37	SL	
Tetrachloroethene	**0.24**	ppmv	0.010	0.0010	1			1/8/2013 10:37	SL	

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ANALYTICAL RESULTS

Workorder: 7756 MI PLAZA / M01046

Lab ID: **77560002** Date Received: 1/4/2013 11:00 Matrix: Vapor

Sample ID: **B-2** Date Collected: 12/31/2012 14:22

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	**1.6**	ppmv	1.0	0.095	1			1/8/2013 11:44	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 11:44	SL	
Methylene Chloride	**3.6**	ppmv	2.0	0.19	1			1/8/2013 11:44	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			1/8/2013 11:44	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			1/8/2013 11:44	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			1/8/2013 11:44	SL	
Chloroform	**0.0012J**	ppmv	0.0050	0.0010	1			1/8/2013 11:44	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 11:44	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 11:44	SL	
Trichloroethene	**0.0019J**	ppmv	0.010	0.0010	1			1/8/2013 11:44	SL	
Tetrachloroethene	**0.19**	ppmv	0.010	0.0010	1			1/8/2013 11:44	SL	

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ANALYTICAL RESULTS

Workorder: 7756 MI PLAZA / M01046

Lab ID: **77560003** Date Received: 1/4/2013 11:00 Matrix: Vapor

Sample ID: **B-3** Date Collected: 12/31/2012 14:12

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	**0.23J**	ppmv	1.0	0.095	1			1/8/2013 12:52	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 12:52	SL	
Methylene Chloride	**0.59J**	ppmv	2.0	0.19	1			1/8/2013 12:52	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			1/8/2013 12:52	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			1/8/2013 12:52	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			1/8/2013 12:52	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 12:52	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 12:52	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 12:52	SL	
Trichloroethene	**0.0028J**	ppmv	0.010	0.0010	1			1/8/2013 12:52	SL	
Tetrachloroethene	**0.14**	ppmv	0.010	0.0010	1			1/8/2013 12:52	SL	

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ANALYTICAL RESULTS

Workorder: 7756 MI PLAZA / M01046

Lab ID: **77560004** Date Received: 1/4/2013 11:00 Matrix: Vapor

Sample ID: **B-4** Date Collected: 12/31/2012 14:06

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			1/8/2013 14:00	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 14:00	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			1/8/2013 14:00	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			1/8/2013 14:00	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			1/8/2013 14:00	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			1/8/2013 14:00	SL	
Chloroform	**0.0021J**	ppmv	0.0050	0.0010	1			1/8/2013 14:00	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 14:00	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 14:00	SL	
Trichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 14:00	SL	
Tetrachloroethene	**0.0019J**	ppmv	0.010	0.0010	1			1/8/2013 14:00	SL	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 7756 MI PLAZA / M01046

PARAMETER 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).

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QUALITY CONTROL DATA

Workorder: 7756 MI PLAZA / M01046

QC Batch: VAP/1326 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 77560001, 77560002, 77560003, 77560004

METHOD BLANK: 17252

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: 17253

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: 17254 17256

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	0.66	0.66	102	102	75-125	0	20	
trans-1,2-Dichloroethene	ppmv	0.65	0.72	0.72	111	112	75-125	0.9	20	
1,1-Dichloroethane	ppmv	0.64	0.80	0.78	125	122	75-125	2.4	20	
cis-1,2-Dichloroethene	ppmv		0.020 U	0.020 U						
Chloroform	ppmv	0.53	0.59	0.58	111	110	75-125	0.9	20	
1,1,1-Trichloroethane	ppmv	0.47	0.52	0.52	112	111	75-125	0.9	20	
Carbon Tetrachloride	ppmv	0.41	0.45	0.45	111	110	75-125	0.9	20	
Trichloroethene	ppmv	0.48	0.54	0.54	113	113	75-125	0	20	
Tetrachloroethene	ppmv		0.010 U	0.010 U						

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QUALITY CONTROL DATA

Workorder: 7756 MI PLAZA / M01046

LABORATORY CONTROL SAMPLE & LCSD: 17255 17257

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		0.74J	0.77J						

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 7756 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
77560001	B-1			AM4.02 Vapors	VAP/1326
77560002	B-2			AM4.02 Vapors	VAP/1326
77560003	B-3			AM4.02 Vapors	VAP/1326
77560004	B-4			AM4.02 Vapors	VAP/1326

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Microseeps Lab. Proj. # 7756

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 : 1105 - Downey Ave Indpls, IN 46219

Phone # : 317-630-9060 Fax # :

Proj. Manager : Mark Breting

Proj. Name/Number : MI Plaza / M9046

Sampler's signature :

Cooler Temp.

Results to : Mark Breting @ Mundell

Invoice to : Merle Tebbe @ Mundell

Sample ID	Sample Description	Sample Type Water	Sample Type Vapor	Sample Type Solid	Date	Time	# bottles	Parameters Requested: Chlorinated Hydrocarbons										Remarks :
B-1	Vapor		✓		12/31/12	2:31p	2	Y										
B-2	↓		✓		↓	2:22p	2	Y										
B-3	↓		✓		↓	2:12p	2	Y										
B-4	✓		✓		✓	2:06p	2	Y										

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	mundell	1-3-12	930a	[signature]	MS	1-4-13	1107
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, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

January 14, 2013

Merle Tebbe
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MICHIGAN PLAZA**
Microseeps Workorder: 7731

Dear Merle Tebbe:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday, December 31, 2012. 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,

Julianne Rugh (JR) 1/15/13

Julianne Rugh 01/14/2013
jrugh@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 11

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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: 7731 MICHIGAN PLAZA

Lab ID	Sample ID	Matrix	Date Collected	Date Received
77310001	B-5	Vapor	12/27/2012 15:30	12/31/2012 13:35
77310002	B-6	Vapor	12/27/2012 15:45	12/31/2012 13:35
77310003	B-7	Vapor	12/27/2012 15:55	12/31/2012 13:35

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ANALYTICAL RESULTS

Workorder: 7731 MICHIGAN PLAZA

Lab ID: **77310001** Date Received: 12/31/2012 13:35 Matrix: Vapor

Sample ID: **B-5** Date Collected: 12/27/2012 15:30

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	**0.20J**	ppmv	1.0	0.095	1			1/8/2013 02:42	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 02:42	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			1/8/2013 02:42	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			1/8/2013 02:42	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			1/8/2013 02:42	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			1/8/2013 02:42	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 02:42	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 02:42	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 02:42	SL	
Trichloroethene	**0.0011J**	ppmv	0.010	0.0010	1			1/8/2013 02:42	SL	
Tetrachloroethene	**0.017**	ppmv	0.010	0.0010	1			1/8/2013 02:42	SL	

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ANALYTICAL RESULTS

Workorder: 7731 MICHIGAN PLAZA

Lab ID: **77310002** Date Received: 12/31/2012 13:35 Matrix: Vapor

Sample ID: **B-6** Date Collected: 12/27/2012 15:45

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	**0.14J**	ppmv	1.0	0.095	1			1/8/2013 03:50	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 03:50	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			1/8/2013 03:50	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			1/8/2013 03:50	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			1/8/2013 03:50	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			1/8/2013 03:50	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 03:50	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 03:50	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 03:50	SL	
Trichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 03:50	SL	
Tetrachloroethene	**0.024**	ppmv	0.010	0.0010	1			1/8/2013 03:50	SL	

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ANALYTICAL RESULTS

Workorder: 7731 MICHIGAN PLAZA

Lab ID: **77310003** Date Received: 12/31/2012 13:35 Matrix: Vapor

Sample ID: **B-7** Date Collected: 12/27/2012 15:55

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	**0.15J**	ppmv	1.0	0.095	1			1/8/2013 04:57	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 04:57	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			1/8/2013 04:57	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			1/8/2013 04:57	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			1/8/2013 04:57	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			1/8/2013 04:57	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 04:57	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 04:57	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			1/8/2013 04:57	SL	
Trichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 04:57	SL	
Tetrachloroethene	**0.010 U**	ppmv	0.010	0.0010	1			1/8/2013 04:57	SL	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 7731 MICHIGAN PLAZA

PARAMETER 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).

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QUALITY CONTROL DATA

Workorder: 7731 MICHIGAN PLAZA

QC Batch: VAP/1326 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 77310001, 77310002, 77310003

METHOD BLANK: 17252

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: 17253

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: 17254 17256

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	0.66	0.66	102	102	75-125	0	20	
trans-1,2-Dichloroethene	ppmv	0.65	0.72	0.72	111	112	75-125	0.9	20	
1,1-Dichloroethane	ppmv	0.64	0.80	0.78	125	122	75-125	2.4	20	
cis-1,2-Dichloroethene	ppmv		0.020 U	0.020 U						
Chloroform	ppmv	0.53	0.59	0.58	111	110	75-125	0.9	20	
1,1,1-Trichloroethane	ppmv	0.47	0.52	0.52	112	111	75-125	0.9	20	
Carbon Tetrachloride	ppmv	0.41	0.45	0.45	111	110	75-125	0.9	20	
Trichloroethene	ppmv	0.48	0.54	0.54	113	113	75-125	0	20	
Tetrachloroethene	ppmv		0.010 U	0.010 U						

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

QUALITY CONTROL DATA

Workorder: 7731 MICHIGAN PLAZA

LABORATORY CONTROL SAMPLE & LCSD: 17255 17257

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		0.74J	0.77J						

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 7731 MICHIGAN PLAZA

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
77310001	B-5			AM4.02 Vapors	VAP/1326
77310002	B-6			AM4.02 Vapors	VAP/1326
77310003	B-7			AM4.02 Vapors	VAP/1326

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Microseeps Lab. Proj. # 7731

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. Inc.

Co. Address : 110 S. Downey Ave. Indpls, IN

Phone # : 317-630-9060 Fax # :

Proj. Manager : Mark Breting

Proj. Name/Number : Michigan Plaza

Sampler's signature :

Cooler Temp.

Results to : Mark Breting @ Mundell

Invoice to : Merle Tebbe @ Mundell

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# bottles	Chlorinated Hydrocarbons	Remarks :
B-5	Vapor		✓		12/27/12	3:30p	2	X	
B-6	Vapor		✓		12/27/12	3:45p	2	X	
B-7	Vapor		✓		12/27/12	3:55p	2	X	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	Mundell	12/27/12	4:45p	R. Welsh	Microseeps	12/31/12	1335
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

APPENDIX B

Air Mitigation Systems: Pounds of Contaminants Removed

APPENDIX B

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*

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

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)				(µg/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*

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

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)				(μg/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*	*0.5000*	*0.00085*	0.00410	*0.00059*	*0.00128*	*845.13*	4,097.60	*589.03*	*1,280.50*

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

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*

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

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*
12/31/2012	0.0170	0.0240	*0.0050*	0.0001	0.0002	*0.00003*	115.53	163.10	*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 B

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*
12/31/2012	*0.0011*	*0.0050*	*0.0050*	*0.00001*	*0.00003*	*0.00003*	*5.92*	*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 B

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*
12/31/2012	*0.2000*	*0.1400*	*0.1500*	*0.00051*	*0.00036*	*0.00038*	*512.20*	*358.54*	*384.15*

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*
12/31/2012	*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
Fourth Quarter 2012
1/15/2013
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 (ug/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
TOTALS:	**55,033**		**225,801,390**		**30**		**2**		**1**		**1**	**33.68**		

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
TOTALS:	**52,008**		**224,772,480**			**61.63**	

Lab Data for Air Mitigation System B-2
Fourth Quarter 2012
1/15/2013
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	5,369	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	3,806	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
TOTALS:	**48,241**		**123,148,470**		**11.05**		**0.18**		**2.31**		**0.31**	**13.85**		

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
TOTALS:	**54,336**		**172,314,720**			**49.04**	

Lab Data for Air Mitigation System B-3
Fourth Quarter 2012
1/15/2013
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

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
TOTALS:	**54,336**		**401,734,080**			**72.30**	

TOTALS:	55,033		418,781,880		51.54		0.63		1.98		1.14	55.28		

Lab Data for Air Mitigation System B-4
Fourth Quarter 2012
1/15/2013
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	1,281	1.47	40	0.05	1.56	9.34	13.79
TOTALS:	**55,033**		**420,440,760**		**9.34**		**0.71**		**2.70**		**1.04**	**13.79**		

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
TOTALS:	**54,336**		**412,079,040**			**49.36**	

Lab Data for Air Mitigation System B-5
Fourth Quarter 2012
1/15/2013
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
TOTALS:	**41,761**		**295,792,860**		**6.41**		**0.40**		**2.98**		**0.73**	**10.52**		

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	1,669	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	1,669	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	0.1	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
TOTALS:	**41,762**		**306,281,040**			**35.51**	

Lab Data for Air Mitigation System B-6
Fourth Quarter 2012
1/15/2013
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
TOTALS:	**41,761**		**302,686,572**		**9.65**		**0.51**		**1.88**		**0.75**	**12.79**		

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
TOTALS:	**41,762**		**303,209,520**			**39.40**	

Lab Data for Air Mitigation System B-7
Fourth Quarter 2012
1/15/2013
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	0.05
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
TOTALS:	**41,497**		**310,009,620**		**1.84**		**0.52**		**1.60**		**0.93**	**4.88**		

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
TOTALS:	**41,496**		**318,536,640**			**29.28**	

Michigan Plaza
Fourth Quarter 2012
1/15/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-4)

Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
4/1/2008	1.20	44.36	1.25	48.07
6/2/2008	4.62	48.98	4.80	52.87
9/12/2008	8.69	57.67	9.05	61.92
11/26/2008	4.38	62.05	4.62	66.54
3/24/2009	7.64	69.69	8.02	74.55
6/15/2009	4.53	74.23	4.80	79.35
8/21/2009	3.90	78.13	4.14	83.49
11/5/2009	3.90	82.03	4.17	87.66
2/5/2010	1.90	83.93	2.24	89.90
4/23/2010	0.43	84.36	0.55	90.45
7/23/2010	1.58	85.94	1.85	92.30
10/15/2010	0.57	86.50	0.78	93.07
1/21/2011	0.59	87.09	0.82	93.89
4/8/2011	1.30	88.40	1.54	95.43
5/11/2011	2.51	90.91	2.80	98.24
7/29/2011	1.26	92.17	1.53	99.77
10/25/2011	0.97	93.15	1.27	101.04
1/20/2012	0.70	93.85	1.19	102.23
6/15/2012	1.36	95.21	1.81	104.04
9/25/2012	1.60	96.81	2.57	106.61
12/31/2012	2.77	99.58	7.61	114.23

Maple Creek Village Apartments
Fourth Quarter 2012
1/15/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-5-B-7)

Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.00	0.00	0.00	0.00
3/28/2008	0.04	0.04	0.04	0.05
4/7/2008	0.00	0.04	0.00	0.05
4/8/2008	0.00	0.05	0.00	0.05
4/24/2008	0.34	0.39	0.42	0.47
5/1/2008	0.16	0.54	0.18	0.65
6/2/2008	0.77	1.31	0.87	1.52
7/10/2008	0.32	1.63	0.40	1.93
8/20/2008	1.56	3.19	1.65	3.58
9/12/2008	0.84	4.03	1.00	4.58
11/26/2008	1.22	5.25	1.46	6.04
3/24/2009	3.45	8.71	3.85	9.89
6/15/2009	0.89	9.60	1.17	11.06
8/21/2009	0.68	10.28	0.91	11.97
11/5/2009	1.37	11.64	1.62	13.59
2/5/2010	0.84	12.48	1.16	14.75
4/23/2010	0.09	12.58	0.27	15.02
7/23/2010	0.68	13.26	0.97	15.98
10/15/2010	0.26	13.52	0.57	16.55
1/21/2011	0.64	14.16	0.98	17.53
5/11/2011	1.08	15.24	1.49	19.02
7/29/2011	0.26	15.50	0.52	19.54
10/25/2011	0.36	15.86	0.65	20.19
1/20/2012	0.27	16.13	0.56	20.75
6/15/2012	0.32	16.45	3.39	24.14
9/25/2012	0.38	16.83	1.29	25.42
12/31/2012	0.35	17.18	1.98	27.40

Cumulative Total LBS Removed
Fourth Quarter 2012
1/15/2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-7)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
3/28/2008	0.04	43.21	0.04	46.87
4/1/2008	1.20	44.41	1.25	48.12
4/7/2008	0.00	44.41	0.00	48.12
4/8/2008	0.00	44.41	0.00	48.12
4/24/2008	0.34	44.75	0.42	48.54
5/1/2008	0.16	44.91	0.18	48.72
6/2/2008	5.38	50.29	5.67	54.39
7/10/2008	0.32	50.61	0.40	54.80
8/20/2008	1.56	52.18	1.65	56.45
9/12/2008	9.53	61.70	10.05	66.49
11/26/2008	5.60	67.30	6.08	72.57
3/24/2009	11.10	78.40	11.87	84.44
6/15/2009	5.42	83.82	5.97	90.41
8/21/2009	4.59	88.41	5.05	95.46
11/5/2009	5.26	93.67	5.79	101.25
2/5/2010	2.74	96.41	3.40	104.65
4/23/2010	0.52	96.93	0.82	105.47
7/23/2010	2.26	99.20	2.82	108.28
10/15/2010	0.83	100.02	1.34	109.63
1/21/2011	1.23	101.25	1.80	111.42
4/8/2011	1.30	102.55	1.54	112.96
5/11/2011	3.59	106.15	4.29	117.26
7/29/2011	1.52	107.67	2.05	119.31
10/25/2011	1.33	109.01	1.92	121.23
1/20/2012	0.97	109.98	1.75	122.98
6/15/2012	1.69	111.67	5.20	128.18
9/25/2012	1.98	113.64	3.86	132.04
12/31/2012	3.12	116.76	9.59	141.63

APPENDIX C

Cumulative Low Flow Sampling Data

Appendix C
Low Flow Data
4th Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Date	pH	Conductivity	Temperature (^oF)	Dissolved Oxygen (ug/L)	Oxygen Reduction Potential (mV)
MMW-1S	11/14/2012	6.53	1314	66.04	343	72
MMW-4D	11/13/2012	6.87	1693	62.89	625	-96
MMW-6D	11/13/2012	7.11	819.5	63.41	455	-134
MMW-8S	11/15/2012	6.79	1145	64.47	284	-80
MMW-9S	11/14/2012	6.66	1224	57.09	1504	-81
MMW-10S	11/15/2012	6.54	1652	68.05	223	-67
MMW-11S	11/13/2012	6.90	1174	62.13	237	107
MMW-11D	11/13/2012	6.99	1003	60.67	377	11
MMW-12S	11/13/2012	6.32	1032	66.22	255	59
MMW-13D	11/13/2012	7.23	903.2	61.98	486	-118
MMW-14D	11/13/2012	6.25	960.7	62.33	228	-38
MMW-15S	11/21/2012	6.96	859	62.02	395	105
MMW-15D	11/21/2012	7.39	649	59.98	233	-149
MMW-P-01	11/14/2012	6.65	1869	64.76	277	-103
MMW-P-02	11/14/2012	6.72	1579	63.58	145	-132
MMW-P-03S	11/14/2012	6.86	729.6	64.09	174	-177
MMW-P-03D	11/14/2012	6.75	1085	62.92	157	-189
MMW-P-04	11/21/2012	6.82	726.5	64.43	973	-227
MMW-P-05	11/14/2012	6.94	907	62.99	237	-215
MMW-P-06	11/14/2012	6.82	1237	63.44	204	-141
MMW-P-07	11/14/2012	6.63	2295	64.89	275	-120
MMW-P-08	11/14/2012	6.61	1868	66.07	127	-162
MMW-P-09S	11/13/2012	6.93	678.9	61.07	803	196
MMW-P-09D	11/13/2012	7.13	861.4	57.94	170	-102
MMW-P-10S	11/14/2012	6.67	1107	65.62	171	-163
MMW-P-10D	11/14/2012	6.76	1359	62.90	159	-159
MMW-P-11S	11/15/2012	6.77	1154	60.86	315	-27
MMW-P-11DR	11/15/2012	6.87	1291	58.64	140	-72
MMW-P-12S	11/19/2012	6.97	1164	63.07	726	-101
MMW-P-12D	11/19/2012	7.00	1437	61.41	531	-116
MMW-P-13S	11/19/2012	6.95	1114	58.65	4503	105
MMW-P-13D	11/19/2012	7.11	1294	57.03	340	-98
MMW-P-14S	11/20/2012	6.83	1213	61.28	891	80
MMW-P-14D	11/20/2012	7.02	1376	59.96	308	-89
MW-167S	Insufficent Water - Sample Not Collected					
MW-167D	11/16/2012	7.15	852.1	60.50	316	-94
MW-168D	11/16/2012	6.90	1186	64.28	211	-104
MW-170S	11/16/2012	6.93	1484	61.82	2316	171
MW-170D	11/16/2012	7.04	1224	59.13	200	-119
MMW-C-01	11/15/2012	6.80	757.3	63.33	510	-31
MMW-C-02S	11/13/2012	6.27	665.5	58.63	166	11
MMW-C-02D	11/19/2012	6.93	1226	58.90	488	-102
MMW-C-16S	11/19/2012	6.59	1373	64.08	807	5
MMW-C-16D	11/19/2012	6.92	1368	61.76	472	-93
MMW-C-17D	11/20/2012	7.06	1183	58.29	293	-140

ug/L - micrograms per liter

mV - millivolts