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April 30, 2010

Ms. Erin Brittain
Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Quarterly Monitoring Progress Report – 1st Quarter 2010**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Ms. Brittain:

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, to summarize further site characterization, remediation activities and quarterly monitoring performed from January 1 through March 31, 2010. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule.

**United States Environmental Protection Agency (U.S. EPA)/IDEM MEETING –
MARCH 6th, 2010**

Mr. John Mundell and Ms. Sarah Webb met with Ms. Erin Brittain, Ms. Sarah Finley-Johansen and Ms. Kristie McIntyre of IDEM; Mr. Brian Schlieger and Ms. Shelly Lam of the U.S. EPA; and Mr. Jay Rush of Weston Solutions, Inc., on March 6th, 2010 regarding the vinyl chloride impacts in residential wells west of the Plaza and south of Allison Transmission Plant 12. The following topics were discussed:

Topics Discussed

- 1) Possible location of additional MUNDELL monitoring wells east of Holt Road to further understand groundwater flow direction south of the Plaza along Little Eagle Creek.
- 2) Proposed downgradient monitoring well locations for the Allison Transmission Plant 12 for evaluation of potential off-site vinyl chloride migration.

As of April 8, 2010 Allison was proceeding with the installation of four soil borings and two piezometers southeast of Allison Plant 12. Allison was not present at the IDEM/U.S. EPA meeting.

MUNDELL's assessment of the local groundwater flow conditions near Allison Plant 12 led to a different conclusion regarding how to proceed with the additional groundwater investigation. During the IDEM/U.S. EPA meeting, MUNDELL commented that completion of two resistivity lines southeast of Allison Plant 12 would allow for proper well screen placement and sampling intervals within the various saturated units. The geophysical survey would be followed with installation of three piezometers (or nested wells) along the Allison Plant 12 southeastern property line.

At this time it appears Allison has gone forth with its original work plan installing four soil borings and two piezometers southeast of Plant 12. Analytical results from this investigation have yet to be provided to MUNDELL.

- 3) Creation of a unified area map and completion of a unified groundwater elevation gauging event, at the request of the U.S. EPA.

GROUNDWATER MONITORING NETWORK SAMPLING

On February 3rd to 4th, 2009, quarterly groundwater sampling of the existing twenty-four (24) monitoring wells established with IDEM, and the two (2) additional monitoring wells on the Floral Park Cemetery property was performed. The following constitute this quarterly groundwater monitoring network:

- 1) *Twenty-four (24) MUNDELL monitoring wells:* MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, 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 and MMW-C-01 and MMW-C-02 (MUNDELL wells on Floral Park Property).
- 2) *One (1) Keramida monitoring well:* MW-168D. MW-168S was not sampled due to an insufficient volume of water in the well.

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the following additional wells this quarter:

- 1) MUNDELL monitoring wells MMW-3S, MMW-4D, MMW-5D, MMW-6D and MMW-7S.
- 2) *Nine (9) Keramida monitoring wells:* MW-167S, MW-167D, MW-168S, MW-169S, MW-169D, MW-170S, MW-170D, MW-171S and MW-171D.

The purpose of this ‘all monitoring wells gauging event’ in February 2010 was to more accurately determine the groundwater flow direction and gradient over this wider area.

During this investigation, monitoring wells MMW-10S, MMW-10D, MMW-P-07 and MW-168D were found to contain black flakes at the top of the water table. Black precipitate in groundwater can indicate the presence of iron reducing bacteria. Limited ferrous iron analyses following the initial CAP 18TM injection in August 2007 indicate slight elevations of ferrous iron concentrations within these monitoring wells, suggesting the black precipitate observed is potentially the byproduct of reductive biotransformation within the aquifer.

All monitoring well sampling, survey and construction data are provided in **Tables 1, 2 and 2a**, respectively, and the potentiometric map is illustrated in **Figure 1**.

The wells were sampled utilizing the dedicated bladder pumps for uniform low-flow purging and sample collection. The Troll 9500 multi-parameter meter (used inline with the dedicated bladder pumps) logs geochemical parameters (e.g. temperature, pH, dissolved oxygen, conductivity and oxidation reduction potential), which helps 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 as evidence of conditions naturally conducive to natural attenuation existing in the aquifer. All excess purge water was transported to 55-gallon drums located at the Site for proper 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 *RWP Addendum* November 2008, groundwater samples were submitted to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana for the shorter list of VOC analysis via U.S. EPA SW-846 Method 8260, along with the appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD). 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**.

Baseline groundwater geochemical parameters (pH, dissolved oxygen, oxidation-reduction potential, conductivity and temperature) were measured with a low-flow cell and multi-parameter water quality probe in this post-injection period to evaluate whether aquifer conditions continue to be favorable for natural attenuation of the indicator compounds at the Site.

Additional aquifer chemical parameter testing has been performed in the past and will be scheduled based on the observed response and remedial status in each plume area going forward. Additional aquifer parameters including methane, ethene and ethane are periodically analyzed to evaluate the indicator compound breakdown and redox-sensitivity. In addition, volatile fatty acids (VFA) will also be tested periodically to evaluate the injection substrate CAP 18TM distribution and lifetime duration of the product. These samples will be collected in select monitoring wells representative of each plume to monitor the presence of residual CAP 18TM in the aquifer and to provide additional monitoring of aquifer conditions. Future monitoring of these constituents will be performed as needed to evaluate the natural attenuation process.

INDOOR AIR MONITORING

On March 4th, indoor air samples (taken via summa canisters) were collected at four tenant units at Michigan Plaza (Village Pantry (3801), Vacant Handicapped space (3815), Mexican Grocery store (3819) and the Laundromat (3823)) with the air mitigation systems on, and at four apartments (Basement Apt. 101 (Building No. 1), Basement Apt. 602 (Building No. 6), Basement Apt. 1001 (Building No. 10), and Apt No. 108 (Second Floor, Building No. 1)).

Indoor air samples (via summa canisters) were also collected at two more tenant units at Michigan Plaza (Alcoholics Anonymous (3817), and the vacant library space (3805) on March 4th, 2010, since the 3817 and 3805 spaces are now periodically occupied.

Tables 3a, 3b, 3c and 3d present the air sampling results for Michigan Plaza, Michigan Apartments, soil gas monitoring wells and the health based limits in air respectively. **Figure 2** demonstrates the recent and historical air analytical results.

GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical testing results for this quarter are summarized in **Table 4** and presented on **Figure 3**. Two (2) out of the twenty-five (25) monitoring wells sampled this quarter (MMW-1S and MMW-P-01) showed PCE concentrations exceeding the IDEM RISC Industrial Default Closure Level (IDEM RISC IDCL). Three (3) monitoring wells (MMW-8S, MMW-10S and MMW-P-02) demonstrated PCE concentrations exceeding the IDEM RISC Residential Default Closure Level (IDEM RISC RDCL) but below the IDCL. The historical groundwater results are included in **Table 5**. The historical indicator compounds trends in groundwater are presented in **Figure 4**.

Two (2) of the monitoring wells (MMW-1S and MMW-P-01) showed TCE concentrations exceeding the IDEM RISC IDCL, with one (1) monitoring well (MMW-10S) exhibiting a level exceeding the RDCL, but below the IDCL.

Three (3) monitoring wells (MMW-9S, MMW-P-01 and MMW-P-08) showed cis-1,2-DCE concentrations exceeding the IDEM RISC IDCL. Eleven (11) monitoring wells (MMW-10S, MMW-11D, MMW-13D, MMW-14D, MMW-P-02, MMW-P-03S, MMW-P-04, MMW-P-06,

MMW-P-07, MMW-P-10D and MMW-C-01) exhibited cis-1,2-DCE concentrations exceeding the RDCL, but below the IDCL.

Twenty (20) monitoring wells (MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11D, MMW-13D, MMW-14D, MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09D, MMW-P-10S, MMW-P-10D, MMW-168D and MMW-C-01) showed vinyl chloride concentrations exceeding the IDEM RISC IDCL. One (1) monitoring well (MMW-12S) exhibited a vinyl chloride concentration slightly exceeding the RDCL, but below the IDCL.

The deep monitoring wells MMW-13D and MMW-14D exhibited significant cis-1,2-DCE and exceedances above the RDCL and vinyl exceedances above IDCL during this quarter (see **Figure 3**). Since these wells have been purposefully located upgradient of *Source Areas B* and *C*, the impacts observed in these areas demonstrate groundwater impacts that are attributable to other upgradient, off-site sources and not to Michigan Plaza. As seen on **Figure 3** the indicator compound concentrations at these deep, upgradient wells can be considered as “background levels” defined as the concentration of contaminants from the Genuine source coming into the deeper aquifer in this area. These indicator compound levels aid in discerning between the Michigan Plaza source impacts and the Genuine Site impacts, and will ultimately be used to evaluate the target cleanup levels for the deeper aquifer at the Site.

The indicator compound trends demonstrated at the northern wells (MMW-3S, MMW-4D, MMW-5D, MMW-6D and MMW-7S) at Michigan Apartments are attached in **Appendix C**. The cis-1,2-DCE and vinyl chloride concentrations coming onsite from the upgradient sources are still well above the RISC IDCLs in most of the northern wells (at the northern fence line) indicating that the remediation at the upgradient property will require multiple additional years to achieve acceptable cleanup levels.

IN-SITU BIOREMEDIATION PROGRESS

Based upon the 1) 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 CAP18TM (an enhanced, food-grade vegetable oil product), followed by Monitored Natural Attenuation (MNA) is the selected remediation technology for the Site for treating groundwater, as detailed in the *RWP*. The initial CAP18TM injection was performed in all 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* that upon migration downgradient in the direction of groundwater flow, are expected to remediate the most significant groundwater impacts. A booster CAP18TM injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations have begun to stabilize or are decreasing at a slow rate. During this quarter, no additional CAP 18TM injections have been performed.

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 developed for the following monitoring wells:

Source Area A: MMW-P-03D

Source Area B: MMW-P-01, MMW-P-07, MMW-P-08 and MMW-8S

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

Figures 4 and 5 illustrate the changes in the chlorinated solvents concentrations demonstrating reductive dechlorination as a result of the CAP 18TM remediation implementation. To illustrate the effect of the CAP 18TM injection on dissolved chlorinated concentrations, injection dates are included on the graphs.

PCE and cis-1,2-DCE impacts in **Source Area A** (MMW-P-03D) appear to have a decreasing trend, and vinyl chloride demonstrated an increasing trend after the second round of CAP 18TM injection in February 2009. This is indicative of continued reductive dechlorination in this area (indicating further breakdown of parent compounds) in *Source Area A*.

PCE and cis-1,2-DCE impacts in the **Source Area B** have decreased, with corresponding increases in the vinyl chloride (MMW-P-01 and MMW-P-07) concentrations this quarter. This is indicative of reductive dechlorination in *Source Area B*.

There was a slight increase in the PCE concentration in monitoring well MMW-8S immediately after injection during the fourth quarter of 2007, accompanied by a spike in cis-1,2-DCE and vinyl chloride concentrations. A decreasing trend in PCE concentrations at MMW-8S began during the first quarter of 2008 and continued through the fourth quarter 2009. A slight increase in PCE was observed during this quarter. MMW-P-08 showed increases in both cis-1,2-DCE and vinyl chloride concentrations during this quarter while PCE concentrations remained below laboratory detection limits. Cis-1,2-DCE and vinyl chloride concentrations spiked after the first CAP 18TM injection downgradient of *Source Area B*, followed by decreasing cis-1,2-DCE trends and stable vinyl chloride trends. These trends remained consistent up until the 2nd injection event in February 2009. Since then, cis-1,2-DCE and vinyl chloride concentrations have been steadily decreasing. The analytical results are attached in **Appendix A**.

PCE impacts in the **Source Area C** (MMW-1S, MMW-9S and MMW-10S) appear to have a decreasing trend this quarter, and vinyl chloride demonstrated an increasing trend for this quarter. Cis-1,2-DCE concentrations were slightly decreasing this quarter in MMW-1S, MMW-9S and MMW-10S. This is indicative of continued reductive dechlorination in *Source Area C*.

Thus, an overall decreasing trend in PCE and TCE concentrations (in some areas achieving nondetectable concentrations), and an increase in the daughter product concentrations (indicating

breakdown of parent compounds via reductive dechlorination) have occurred significantly since the CAP 18TM injections in the *Source Areas A, B and C* in August 2007 and February 2009.

Indoor Air Sampling Results - 2010

Reduced indoor air concentrations (observed in the following spaces: Apt Buildings No. 1 (Apt 101) and 10 (Apt 1001), the Village Pantry space, Plaza 3805 (the former library space), Plaza 3811 (the former handicap space), the AA Suite, the Mexican Store and the Laundromat) were below the IDEM 2006 and IDEM 2010 target levels and are illustrated in the attached **Figure 2**. Also, reduced concentrations were noted in the soil gas monitoring well MGW-1 indicating COCs are being remediated in the area. **Table 3d** presents the U.S. EPA and IDEM screening/target levels.

The indoor air results at the Village Pantry, Mexican store and the Laundromat are all below both IDEM and U.S. EPA action levels (with the vapor mitigation systems running). This is consistent with testing over the past several years in the Plaza spaces where mitigation systems have been installed. The indoor air results for Plaza 3815 remain slightly above the IDEM 2006 action levels. Significant reductions in PCE and TCE concentrations have occurred in this space over the past six (6) years since installation and operation of the vapor mitigation system was initiated in 2003.

Indoor air concentrations have dramatically reduced in the 3817 Michigan Street location (currently Alcoholics Anonymous) and the 3805 Michigan Street space (former Library space). In addition, Plaza 3811 (the former Handicap space) showed minimal PCE and vinyl chloride concentrations and were void of TCE and cis-1,2-DCE impacts. Please note that these spaces DO NOT have vapor mitigation systems in place. These concentration reductions continue to demonstrate that site remedial activities continue to be successful in significantly reducing the indoor air impacts (see attached **Figure 2**). The PCE concentrations in each of these spaces are below the U.S. EPA and IDEM 2006 and 2010 action levels.

One of the Michigan Meadows Apartment building basement apartments (Apt No. 602) had an indoor air PCE concentration exceeding the IDEM 2006 and 2010 action levels. It should be noted that all the indoor air concentrations have been compared to the most conservative (25 or 30 year exposure) IDEM action levels (2006 and 2010 versions). The basement apartment is presently unoccupied with no exposure potential.

The soil gas monitoring well (MGW-5) showed a spike in the contaminant concentrations during the March 2010 sampling round which could be attributed to subsurface changes resulting from increased reductive dechlorination resulting from the 2nd CAP-18 injection event in February 2009. MGW-5, located in the middle of the plaza parking lot, will be sampled in June 2010. This soil gas well shows impacts exceeding some of the U.S. EPA (for TCE cis-1,2-DCE and vinyl chloride) and IDEM 2006 (PCE, TCE and vinyl chloride) soil gas screening levels.

Considering the worst case scenario (an exposure duration of 25 years) yields a conservative comparison to actual risks to human health, as this location has been a parking lot since the initial development of the land. Furthermore, the nearest inhabited indoor spaces are all currently being addressed with air mitigation systems. Therefore, exposure pathways are significantly being reduced. MUNDELL will sample this gas well (MGW-5) again in June 2010 along with the next quarterly groundwater sampling round, to monitor soil gas trends in this area, particularly since it is located in the heart of *Source Area B*. MUNDELL anticipates these levels have been introduced from the previously existing groundwater plume in *Source Area B* which is currently undergoing dechlorination via the CAP 18TM remediation.

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 Handicap Space (B2), 3) the Mexican Store (B3), and 4) the Laundromat (B4). The systems installed at the Michigan 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 in **Figure 6**.

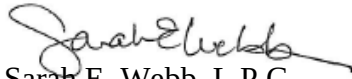
Since the time of installation, system stack air samples were collected weekly for a few weeks followed by bi-weekly sampling for a month, monthly for a quarter and then on a quarterly basis thereafter. PID readings have also been concurrently measured in each of the stacks. The historical PCE concentration trends and cumulative pounds of PCE and total contaminants removed by each of the systems (B1 through B7) are summarized in **Figures 7 through 15**.

As of the end of the first quarter of 2010, approximately 12.46 pounds of PCE and 14.89 pounds of total chlorinated solvents have been removed at the *Michigan Apartments property* (sub-slab depressurization systems **B5, B6 and B7**); and approximately 85.35 pounds of PCE and 91.20 pounds of total chlorinated solvents have been removed at the *Michigan Plaza property* (sub-slab 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 0.15 PPMV (derived from the J flag values for VC concentrations below PQL) is used for calculation purposes.

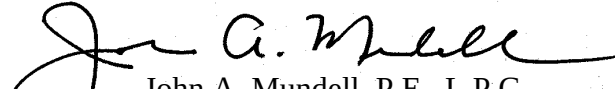
We appreciate the opportunity to update IDEM on the progress of remedial activities and monitoring at the Site. If you have any questions, please do not hesitate to contact us at (317) 630-9060 or via email (jmundell@MundellAssociates.com; swebb@MundellAssociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.



Sarah E. Webb, L.P.G.
Project Hydrogeologist



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

Attachments: Tables
Figures
Appendices

cc: Mr. Eric Hilty, AIMCO

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APPENDICES

Appendix A. Lab Analytical Results

Appendix B. Air Mitigation Systems: Pounds of Contaminants Removed

Appendix C. Indicator Compound Trends at the Northern Wells

TABLES

Table 1 Tabulated Water Level Measurements Quarter 1 (2010) 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)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
On-Site Monitoring Wells					
MMW-P-01	2/3/2010	714.903	28	19.29	695.61
MMW-P-02	2/3/2010	715.686	30	20.29	695.40
MMW-P-03S	2/3/2010	715.6	28	20.2	695.40
MMW-P-03D	2/3/2010	715.582	35	20.2	695.38
MMW-P-04*	2/3/2010	715.492	28	NS	NS
MMW-P-05	2/3/2010	715.17	28	19.64	695.53
MMW-P-06	2/3/2010	715.721	28	20.24	695.48
MMW-P-07	2/3/2010	714.471	28	18.46	696.01
MMW-P-08	2/3/2010	714.142	28	18.09	696.05
MMW-P-10S	2/3/2010	713.941	28	18.28	695.66
MMW-P-10D	2/3/2010	714.05	38	18.06	695.99
Off-Site Monitoring Well (Olin-Cossell ROW)					
MMW-P-09S	2/3/2010	714.447	28	19.94	694.51
MMW-P-09D	2/3/2010	714.394	45	19.92	694.47
Off-Site Monitoring Wells (Keramida)					
MW-167S	2/3/2010	716.25	22	18.78	697.47
MW-167D	2/3/2010	716.25	33	18.98	697.27
MW-168S	2/3/2010	714.79	22	18.08	696.71
MW-168D	2/3/2010	714.71	31	18.03	696.68
MW-169S	2/3/2010	715.95	25	20.41	695.54
MW-169D	2/3/2010	715.23	37	20.47	694.76
MW-170S	2/3/2010	717.40	27	21.17	696.23
MW-170D	2/3/2010	717.34	39	21.12	696.22
MW-171S	2/3/2010	711.83	22	15.82	696.01
MW-171D	2/3/2010	711.88	49	16.31	695.57
Off-Site Monitoring Wells (Michigan Meadows Apartments)					
MMW-1S	2/3/2010	712.54	20	16.13	696.41
MMW-2S	2/3/2010	712.588	20	NS	NS
MMW-3S	2/3/2010	709.763	30	12.70	697.063
MMW-4D	2/3/2010	710.877	66	13.85	697.027
MMW-5D	2/3/2010	710.852	51	13.62	697.232
MMW-6D	2/3/2010	711.971	51	14.71	697.261
MMW-7S	2/3/2010	711.64	26	14.29	697.35
MMW-8S	2/3/2010	713.81	24	17.15	696.66
MMW-9S	2/3/2010	713.249	25	17.33	695.919
MMW-10S	2/3/2010	713.23	25	16.29	696.94
MMW-11S	2/3/2010	713.69	33	16.12	697.57
MMW-11D	2/3/2010	713.64	33	16.29	697.35
MMW-12S	2/3/2010	712.82	24	15.41	697.41
MMW-13D	2/3/2010	712.884	50	16.1	696.784
MMW-14D	2/3/2010	711.77	50	15.20	696.57
Monitoring Wells Installed 2008					
MW-C-01	2/3/2010	715.272	28	19.98	695.292
MW-C-02	2/3/2010	714.22	28	19.33	694.89

* This well has been corrected for 3.77 of cap 18 (density of 0.96) oil in well

Table 2
Monitoring Well Construction Summary
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-P-01	09/28/05	9/19/07	715.79	28.00	18.00 - 28.00	19.69	696.10
MMW-P-02	09/27/05	9/19/07	716.70	30.00	20.00 - 30.00	20.90	695.80
MMW-P-03S	09/26/05	9/19/07	716.55	28.00	18.00 - 28.00	20.79	695.76
MMW-P-03D	09/27/05	9/19/07	716.45	35.00	25.00 - 35.00	20.63	695.82
MMW-P-04	09/26/05	9/19/07	716.27	28.00	18.00 - 28.00	20.49	695.78
MMW-P-05	09/26/05	9/19/07	716.12	28.00	18.00 - 28.00	20.14	695.98
MMW-P-06	09/28/05	9/19/07	716.50	28.00	18.00 - 28.00	20.57	695.93
MMW-P-07	01/11/07	9/19/07	715.30	28.00	18.00 - 28.00	18.84	696.46
MMW-P-08	01/11/07	9/19/07	715.22	28.00	18.00 - 28.00	18.61	696.61
MMW-P-09S	01/29/07	9/19/07	715.36	28.00	18.00 - 28.00	20.17	695.19
MMW-P-09D	05/31/07	9/19/07	715.21	45.00	35.00 - 45.00	20.35	694.86
MMW-P-10S	06/01/07	9/19/07	714.59	28.00	18.00 - 28.00	18.30	696.29
MMW-P-10D	06/01/07	9/19/07	714.98	38.00	28.00 - 38.00	18.69	696.29

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW-165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

Table 2a
Monitoring Well Construction Summary
Michigan Apartments
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-1S	8/20/04	9/19/07	713.66	20.00	10.00 - 20.00	16.36	697.30
MMW-8S	1/11/07	9/19/07	714.75	24.00	14.00 - 24.00	17.41	697.34
MMW-9S	1/12/07	9/19/07	714.09	25.00	15.00 - 25.00	17.45	696.64
MMW-10S	1/12/07	9/19/07	713.23	25.00	15.00 - 25.00	16.17	697.06
MMW-11D	5/31/07	9/19/07	713.69	33.00	23.00 - 33.00	16.43	697.26
MMW-11S	11/26/08	NM	713.64	24.00	14.00 - 24.00	NM	NA
MMW-12S	11/26/08	NM	712.82	28.00	18.00 - 28.00	NM	NA
MMW-13D	11/21/08	NM	713.53	50.00	35.00 - 50.00	NM	NA
MMW-14D	12/10/08	NM	712.61	50.00	40.00 - 50.00	NM	NA

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW-165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

NM: Not Measured

NA: Not Available

TABLE 3a
AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS
Sampling Events - April 2003, October 2004, September 2005, October 2006, April 2008, February 2009, March 2009, March 2010
Michigan Plaza Shopping Center
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-			Vinyl Chloride (VC)		
		ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3
PLAZA 3801 (Village Pantry)	4/25/2003	38	260	0.2600	0.09	0.49	0.0005	ND	ND	ND	ND	ND	ND
	9/29/2005	26	180	0.1800	0.07	0.39	0.0004	0.09	0.36	0.0004	0.98	2.50	0.0025
	10/12/2006	0.98	6.70	0.0067	ND	ND	ND	0.061	0.24	0.0002	0.1	0.27	0.0003
	4/14/2008	0.15	1.0	0.0010	ND	ND	ND	ND	ND	ND	0.079	0.20	0.00020
	2/26/2009	0.84	5.7	0.0057	ND	ND	ND	ND	ND	ND	0.46	1.20	0.00120
	3/4/2010	0.12	0.8	0.0008	ND	ND	ND	ND	ND	ND	0.18	0.45	0.00045
PLAZA 3811 (Former Handicap Space)	3/4/2010	0.26	1.7	0.0017	ND	ND	ND	ND	ND	ND	0.0073	0.19	0.00019
FORMER LIBRARY	4/25/2003	176.75	1,200	1.2000	0.43	2.30	0.0023	0.09	0.36	0.0004	ND	ND	ND
	3/17/2009	1.70	11	0.0110	ND	ND	ND	ND	ND	ND	1.1	2.90	0.00
	3/4/2010	0.11	1	0.0008	ND	ND	ND	ND	ND	ND	0.19	0.48	0.0005
PLAZA 3815 (Vacant)	4/25/2003	250	1,700	1.7000	0.43	2.30	0.0023	0.08	0.33	0.0003	ND	ND	ND
	10/7/2004	18	120	0.1200	0.16	0.86	0.0009	0.17	0.67	0.0007	0.73	1.90	0.0019
	9/29/2005	42	280	0.2800	0.10	0.53	0.0005	0.36	1.40	0.0014	0.071	0.18	0.0002
	10/12/2006	3.6	25	0.0250	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/14/2008	1.6	11	0.0110	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	1.8	12	0.0120	ND	ND	ND	ND	ND	ND	0.051	0.13	0.0001
PLAZA 3817 (AA Suite)	4/25/2003	200	1,400	1.4000	0.18	1.0	0.0010	0.0257	0.18	0.0002	ND	ND	ND
	3/17/2009	1	7	0.0070	ND	ND	ND	ND	ND	ND	0.16	0.4	0.0004
	3/4/2010	0.24	1.70	0.0017	ND	ND	ND	0.19	0.75	0.0008	0.11	0.29	0.0003
PLAZA 3819 (Mexican Store)	10/7/2004	26	180	0.1800	0.16	0.86	0.0009	0.17	0.67	0.0007	2.6	6.6	0.0066
	9/29/2005	75	510	0.5100	0.08	0.45	0.0005	0.19	0.75	0.0008	1.6	4.1	0.0041
	10/12/2006	2.2	15	0.0150	ND	ND	ND	0.06	0.22	0.0002	0.2	0.51	0.0005
	4/14/2008	1.30	8.8	0.0088	ND	ND	ND	ND	ND	ND	0.14	0.35	0.0004
	2/26/2009	0.41	2.8	0.0028	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.24	1.6	0.0016	ND	ND	ND	ND	ND	ND	0.067	0.17	0.0002
PLAZA 3819 (Mexican Store) (below slab)	10/7/2004	1.70	12	0.0120	1.70	9.1	0.0091	0.96	3.80	0.0038	0.035	0.089	0.0001
PLAZA3823 (Laundromat)	10/12/2006	0.32	2.20	0.0022	ND	ND	ND	ND	ND	ND	0.053	0.14	0.0001
	4/14/2008	0.35	2.30	0.0023	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.13	0.90	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.11	0.72	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air -West of Village Pantry on Fence	10/12/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/14/2008	0.13	0.90	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46	1.2	0.0012
	3/4/2010	0.06	0.39	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: Results shown in **RED** exceed the draft U.S. EPA commercial guidance; results in bold **BLACK** and with blue **SHADING** exceed IDEM 2006 target commercial air concentrations; results with a GREEN outline exceed IDEM 2010 target commercial air concentrations.

TABLE 3b
AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS
Michigan Meadows Apartments
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-DCE)			Vinyl Chloride (VC)		
		ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3
Building 1 (basement-laundry room)	4/23/2003	28	190	0.1900	0.38	2.00	0.0020	0.05	0.22	0.0002	ND	ND	ND
Building 1, Basement Apt 101	10/7/2004	6.8	46	0.0460	0.21	1.1	0.0011	0.17	0.67	0.0007	0.05	0.13	0.0001
	4/14/2008	0.11	0.74	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.23	1.60	0.0016	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.20	1.40	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Apt 104 (second floor)	10/7/2004	0.96	6.5	0.0065	0.08	0.41	0.0004	0.39	1.5	0.0015	0.10	0.25	0.0003
Building 1, Apt 108 (Daughter's Room)	2/26/2009	3.9	27	0.0270	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	2.4	16	0.0160	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Apt 109 (third floor)	10/7/2004	5.8	39	0.0390	0.16	0.86	0.0009	0.13	0.52	0.0005	0.06	0.16	0.0002
	4/14/2008	1.80	12	0.0120	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 6, basement	4/24/2003	0.95	6.4	0.0064	0.05	0.26	0.0003	0.04	0.95	0.0010	ND	ND	ND
Building 6, Basement Apt 602	4/14/2008	0.26	1.8	0.0018	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.45	3.1	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	5.40	36.0	0.0360	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 20 Apt 2002	10/7/2004	0.06	0.37	0.0004	0.08	0.42	0.0004	0.17	0.67	0.0007	0.05	0.12	0.0001
Building 20 Apt 2006	10/7/2004	0.095	0.64	0.0006	0.11	0.59	0.0006	0.22	0.87	0.0009	0.07	0.17	0.0002
Building 20 Apt 2008	10/7/2004	0.36	2.4	0.0024	0.40	2.1	0.0021	0.23	0.91	0.0009	0.07	0.17	0.0002
Building 10, Basement Apt 1001	4/14/2008	0.26	0.25	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 10, Basement Apt 1001	2/26/2009	0.99	6.70	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 10, Basement Apt 1001	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air NW Meadows MAA-1	10/7/2004	0.29	2.0	0.0020	0.30	1.6	0.0016	0.33	1.3	0.0013	0.06	0.15	0.0002
Ambient Air NE Meadows MAA-2	10/7/2004	0.21	1.4	0.0014	0.19	1.0	0.0010	0.18	0.71	0.0007	0.05	0.12	0.0001
Ambient Air SE Meadows MAA-3	10/7/2004	0.3	2.0	0.0020	0.15	0.81	0.0008	0.16	0.63	0.0006	0.05	0.14	0.0001
Ambient Air - Fence East of Bldg 1	4/14/2008	0.08	0.54	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.058	0.4	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: Results shown in **RED** exceed the draft U.S. EPA guidance; results in bold **BLACK** and with blue **SHADING** exceed IDEM 2006 target residential air concentrations; results with a green **OUTLINE** exceed IDEM 2010 target residential air concentrations.

TABLE 3c
AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS
Soil Gas Monitoring Data
Michigan Plaza Shopping Center & Michigan Meadows Apartments
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-DCE)			Vinyl Chloride (VC)		
		ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3
MGW-1	10/7/2004	0.26	1.8	0	0.079	0.42	0.0004	ND	ND	ND	0.2	0.51	0.0005
	4/15/2008	0.08	0.55	0.001	0.06	0.29	0.0003	ND	ND	ND	ND	ND	ND
	2/26/2009	4.8	32	0.032	1.3	6.8	0.0068	0.2	0.8	0.0008	ND	ND	ND
	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-2	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-3	10/7/2004	0.31	2.1	0	0.068	0.37	0.0004	ND	ND	ND	ND	ND	ND
	4/15/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	40	270	0.27	7.4	40	0.04	1.1	4.4	0.0044	0.29	0.73	0.0007
MGW-4	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-5	4/25/2003	18	120	0.12	297	1,600	1.6	479	1,900	1.900	0.43	1.10	0.0011
	10/7/2004	200	1,400	1.4	730	3,900	3.9	730	2,900	2.900	0.60	1.50	0.0015
	4/15/2008	680	4,600	4.6	660	3,600	3.6	230	910	0.91	ND	ND	ND
	2/26/2009	2,100	14,000	14	1,100	5,800	5.8	330	1,300	1.3	790	2,000	2
	3/4/2010	3,800	26,000	26	1,500	8,100	8.1	2,900	12,000	12	240	610	1

Note: The analytical results from the Gas Well (MGW) samples are not indicative of 'breathing zone' air quality, and comparison to published regulatory standards established for the breathing zone are included here for informational purposes only.

Results shown in **RED** exceed the draft **U.S. EPA** commercial guidance; results in bold **BLACK** and with blue **SHADING** exceed **IDEM** 2006 target commercial air concentrations; results with a green **OUTLINE** exceed **IDEM** 2010 target commercial air concentrations.

TABLE 3d
AIR CONCENTRATION HEALTH-BASED LIMITS
 IN ug/m³
 Michigan Plaza Shopping Center
 Indianapolis, Indiana
 MUNDELL Project No. M01046

	Chemical Name			
	cis-1,2-Dichloroethylene (cis-1,2-DCE)	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Vinyl Chloride
Carcinogen Classification*	D	B/C	B/C	A
U.S. EPA Draft Guidance Target Indoor Air Concentration^a	35	81	2	28
IDEM Draft Default Residential Vapor Intrusion Concentration^b	37	3	1	2
IDEM Draft Default Commercial Vapor Intrusion Concentration^b	51	7	8	9
IDEM Draft Default Residential Vapor Intrusion Concentration^c	37	36	20	35
IDEM Draft Default Commercial Vapor Intrusion Concentration^c	51	51	200	150
U.S. EPA Draft Guidance Target Deep Soil Gas^a	3,500	8,100	220	280
IDEM Draft Guidance Residential Soil Gas Screening Levels^b	NA	320	120	220
IDEM Draft Guidance Commercial Soil Gas Screening Levels^b	NA	680	790	890
IDEM Draft Guidance Residential Soil Gas Screening Levels^c	NA	3,600	2,000	3,500
IDEM Draft Guidance Commercial Soil Gas Screening Levels^c	NA	5,100	20,000	15,000
IDEM Draft Guidance Residential Sub slab Screening Levels^b	NA	32	12	22
IDEM Draft Guidance Commercial Sub slab Screening Levels^b	NA	68	79	89
IDEM Draft Guidance Residential Sub slab Screening Levels^c	NA	360	200	350
IDEM Draft Guidance Commercial Sub slab Screening Levels^c	NA	510	2,000	1,500

*Integrated Risk Information System (RISC), U.S. Environmental Protection Agency (EPA)

^a EPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, November 2002

^b IDEM Draft Vapor Intrusion Pilot Program Guidance - April 26, 2006

^c IDEM Draft Vapor Intrusion Pilot Program Guidance Supplement February 4, 2010

A = Human Carcinogen

B = Probable human carcinogen

C = Possible human carcinogen

D = Not classifiable as to human carcinogenicity

NA - Not Available

Table 4
Monitoring Well Groundwater Analytical Results
Quarter 1 (2010)
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job 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
Monitoring Wells (Apts)							
MMW-1S	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
MMW-8S	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
MMW-9S	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
MMW-10S	2/3/2010	8.3	7.5	180	5.1	<5.0	148
MMW-11S	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
MMW-11D	2/3/2010	<5.0	<5.0	301	28.2	<5.0	5.2
MMW-12S	2/3/2010	<5.0	<5.0	11.4	<5.0	<5.0	2.1
MMW-13D	2/3/2010	<5.0	<5.0	819	6.2	<5.0	260
MMW-14D	2/3/2010	<5.0	<5.0	871	13.9	<5.0	84.9
Monitoring Wells (Plaza)							
MMW-P-01	2/4/2010	104	60.6	9,190	130	<50.0	13,600
MMW-P-02	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
MMW-P-03S	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
MMW-P-03D	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
MMW-P-04	2/12/2010	<5.0	<5.0	144	8.3	<5.0	224
MMW-P-05	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
MMW-P-06	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
MMW-P-07	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
MMW-P-08	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
MMW-P-09S	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
MMW-P-10S	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
MMW-P-10D	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
Keramida Monitoring Wells (Off-site)							
MW-168S	NS	NS	NS	NS	NS	NS	NS
MW-168D	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
Floral Park Monitoring Wells (Off-site)							
MMW-C-01	2/3/2010	<5.0	<5.0	176	10.1	<5.0	1,790
MMW-C-02	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
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

Note:

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

NS = Not Sampled

Table 5 Historical Monitoring Well Groundwater Analytical Results Michigan Plaza Indianapolis, Indiana MUNDELL Job 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
Monitoring Wells (Apts)							
MMW-1S	9/10/2004	3.1 J	< 5.0	< 5.0	< 5.0	<5.0	4.1
	3/15/2005	150	10	< 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	<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	<2.0
	3/21/2008	280	14	<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
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
	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
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	5.4	<5.0	<5.0	<2.0
	9/5/2006	<5.0	23	7.4	<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
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	2.3J	<5.0	220
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
	6/15/2009	<5.0	<5.0	892	7	<5.0	142
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	<5.0	270
	11/10/2005	<5.0	<5.0	3,900	19	<5.0	140
	9/5/2006	<50	<50	2,500	<50	<5.0	170
	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
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
	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
	8/24/2004	<5.0	<5.0	28	<5.0	<5.0	<2.0
MMW-7S	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
	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
	IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2
Note: All Values Over IDEM RISC Default Industrial Cleanup Level inRED All Values Over IDEM RISC Default Residential Cleanup Level inBLUE 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 are appear to be undergoing reductive dechlorination due to CAP-18 Injections "J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations "-" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error							

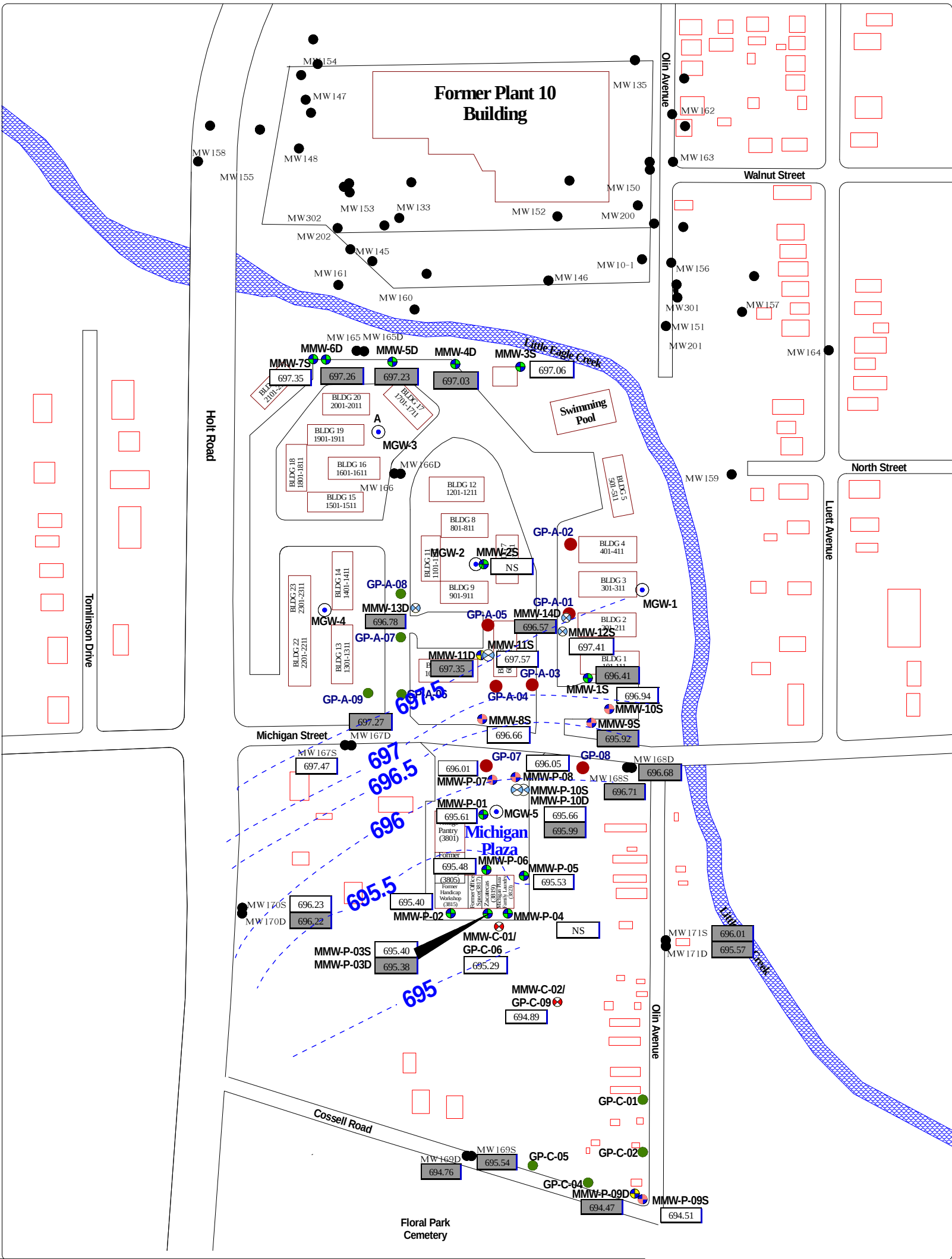
Table 5 Historical Monitoring Well Groundwater Analytical Results Michigan Plaza Indianapolis, Indiana MUNDELL Job No.: M01046							
Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MMW-8S	2/22/2007	114	<5.0	289	13.8	<5.0	40.6
	6/14/2007	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	<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
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	37.9 J	17.9 J	1,700	29.8 J	<50.0	<20.0
	3/21/2008	57	20	2,900	39	<5.0	16
	6/6/2008	52.9	28	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	<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
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	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	124	56	149	<5.0	<5.0	<2.0
	3/21/2008	440	12	8.1	<5.0	<5.0	12
	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	<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
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	<5.0	49
	3/20/2008	<5.0	<5.0	420	17	<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
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	301.00	28.20	<5.0	5.20
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	11.40	<5.0	<5.0	2.10
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	819.00	6.20	<5.0	260.00
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	871.00	13.90	<5.0	84.90
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2
Note: All Values Over IDEM RISC Default Industrial Cleanup Level inRED All Values Over IDEM RISC Default Residential Cleanup Level inBLUE 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 are appear to be undergoing reductive dechlorination due to CAP-18 Injections "J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations "." indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error							

Table 5 Historical Monitoring Well Groundwater Analytical Results Michigan Plaza Indianapolis, Indiana MUNDELL Job 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
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
MMW-P-06	11/8/2005	<5.0	<5.0	200	24	<5.0	21
	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	<5.0	31
	3/20/2008	<5.0	<5.0	250	31	<5.0	26
	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
MMW-P-07	2/22/2007	3,060	81.5	82	8.8	<5.0	<2.0
	6/14/2007	2,850	90	82.5	<50.0	<50.0	<20.0
	9/20/2007	5,200	109	121	16.1	<5.0	2
	12/13/2007	1,440	157	930	8.8	7.4	80
	3/21/2008	31	7.6	1,700	27	<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
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	6,500	130	<5.0	55
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	562
	9/11/2008	5.8	5	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.	<50.	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
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
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2
Note: All Values Over IDEM RISC Default Industrial Cleanup Level inRED All Values Over IDEM RISC Default Residential Cleanup Level inBLUE 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 are appear to be undergoing reductive dechlorination due to CAP-18 Injections "J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations "." indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error							

Table 5 Historical Monitoring Well Groundwater Analytical Results Michigan Plaza Indianapolis, Indiana MUNDELL Job 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
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
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	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
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	<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	9.7	537	16	<5.0	114
	9/11/2008	74.8	36.5	1,650	74	<5.0	27.7
	11/19/2008	78.6	28	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
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	<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
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	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	
Keramida Monitoring Wells (Off-site)							
MW-167S	11/7/2005	<5.0	<5.0	<5.0	<5.0	<5.0	14
	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
MW167D	11/7/2005	<5.0	<5.0	750	<5.0		110
	6/5/2008	<5.0	<5.0	616	28	<5.0	43.8
	6/17/2009	<5.0	<5.0	612	22.1	<5.0	23.8
MW-168S	11/7/2005	280	16	53	<5.0	<5.0	3
	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
	9/19/2007	32.6	8	82.4	<5.0	<5.0	3.5
	12/13/2007	52	14	78	<5.0	<5.0	4.1
	3/20/2008	92	12	46	<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	
MW-168D	11/7/2005	<5.0	<5.0	6.8	<5.0	<5.0	49
	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
	3/20/2008	<5.0	<5.0	8	<5.0	<5.0	39
	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
	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	
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2
Note: 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 are appear to be undergoing reductive dechlorination due to CAP-18 Injections "J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations "-" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error							

Table 5 Historical Monitoring Well Groundwater Analytical Results Michigan Plaza Indianapolis, Indiana MUNDELL Job 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
MW-169S	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
MW-169D	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
MW-170S	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
MW-170D	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
MW-171S	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-171D	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
Floral Park Cemetery Wells (Off-site)							
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
MMW-C-02	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
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2
Note: All Values Over IDEM RISC Default Industrial Cleanup Level inRED All Values Over IDEM RISC Default Residential Cleanup Level inBLUE 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 are appear to be undergoing reductive dechlorination due to CAP-18 Injections "J" designation indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations "-" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error							

FIGURES



LEGEND

- Fence
- MW 160 ● Keramida Monitoring Wells
- SS-P-01 ● MUNDELL Sewer Sampling Locations (September & November 2005)
- GP-07 ● MUNDELL Soil Boring Locations (September 2005)
- MMW-P-06 ● MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-05 ● MUNDELL Soil Boring Locations (January 2007)
- MMW-P-07 ● MUNDELL Monitoring Wells (January 2007)
- MMW-P-09D ● MUNDELL Monitoring Wells (May-June 2007)
- MMW-C-01/ GP-C-06 ● MUNDELL Monitoring Wells (August 2008)
- MMW-11S ● MUNDELL Monitoring Wells (September 2008)
- 697.03 Water Level as Measured on February 3, 2010 (gray boxes indicate groundwater elevation values not used for the creation of the Potentiometric Surface Map)
- 699 --- Potentiometric Surface Equal Potential Lines



SCALE 0 200
feet

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

MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

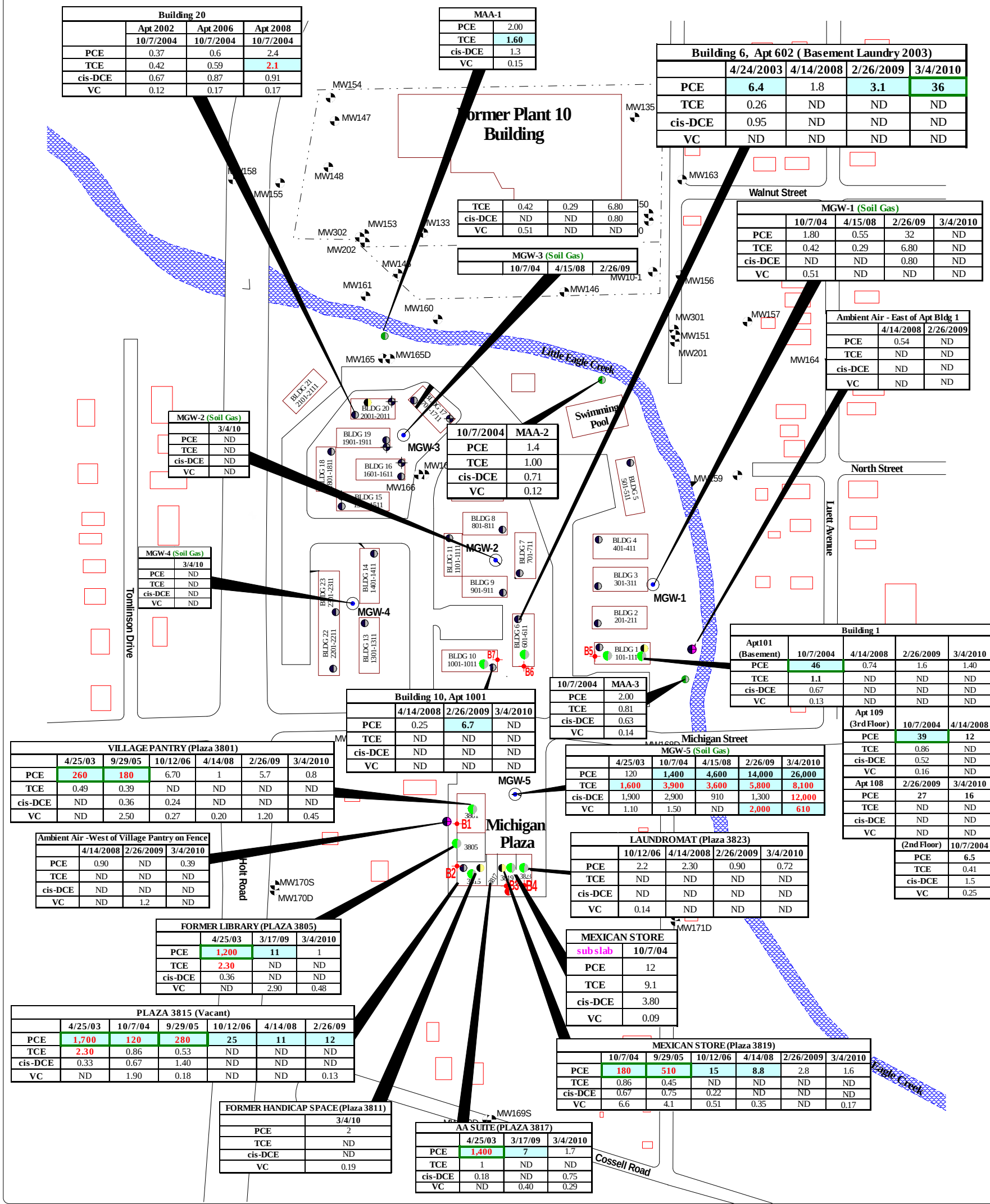
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
2/12/10
Scale:
1"=200' ±

Shallow Potentiometric Surface Map
February 3rd, 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE

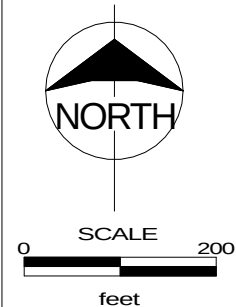
1



- Fence
MW-160 Keramida Groundwater Monitoring Well
MUNDELL Air Quality Sampling Location (Dec. 10, 2001)
MUNDELL Air Quality Sampling Location (April 23 & 24, 2003)
MUNDELL Ambient (outside) Air Quality Sampling Location (Oct. 2004)
MUNDELL Indoor Air Quality Sampling Location (Oct. 2004)
MUNDELL Below Slab Sampling Location (Oct. 2004)
MUNDELL Indoor Air Quality Sampling Location (March 2010)
MUNDELL Ambient (outside) Air Quality Sampling Location (March 2010)
B2 - MUNDELL Existing Air Mitigation System Locations (March 2010)
MGW-5 - MUNDELL Monitoring Gas Well

2.30 Results in RED exceed the draft U.S. EPA commercial guidance.
8.8 Results shown in bold BLACK and with blue SHADING exceed IDEM 2006 target commercial air concentrations.
180 Results with a GREEN outline exceed IDEM 2010 target commercial air concentrations.

LEGEND



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

Sample Location	
PCE	Tetrachloroethene (ug/m ³)
TCE	Trichloroethene (ug/m ³)
cis-DCE	cis-1,2-Dichloroethene (ug/m ³)
VC	Vinylchloride (ug/m ³)
Note: ND = Not Detected	

MUNDELL & ASSOCIATES, INC.

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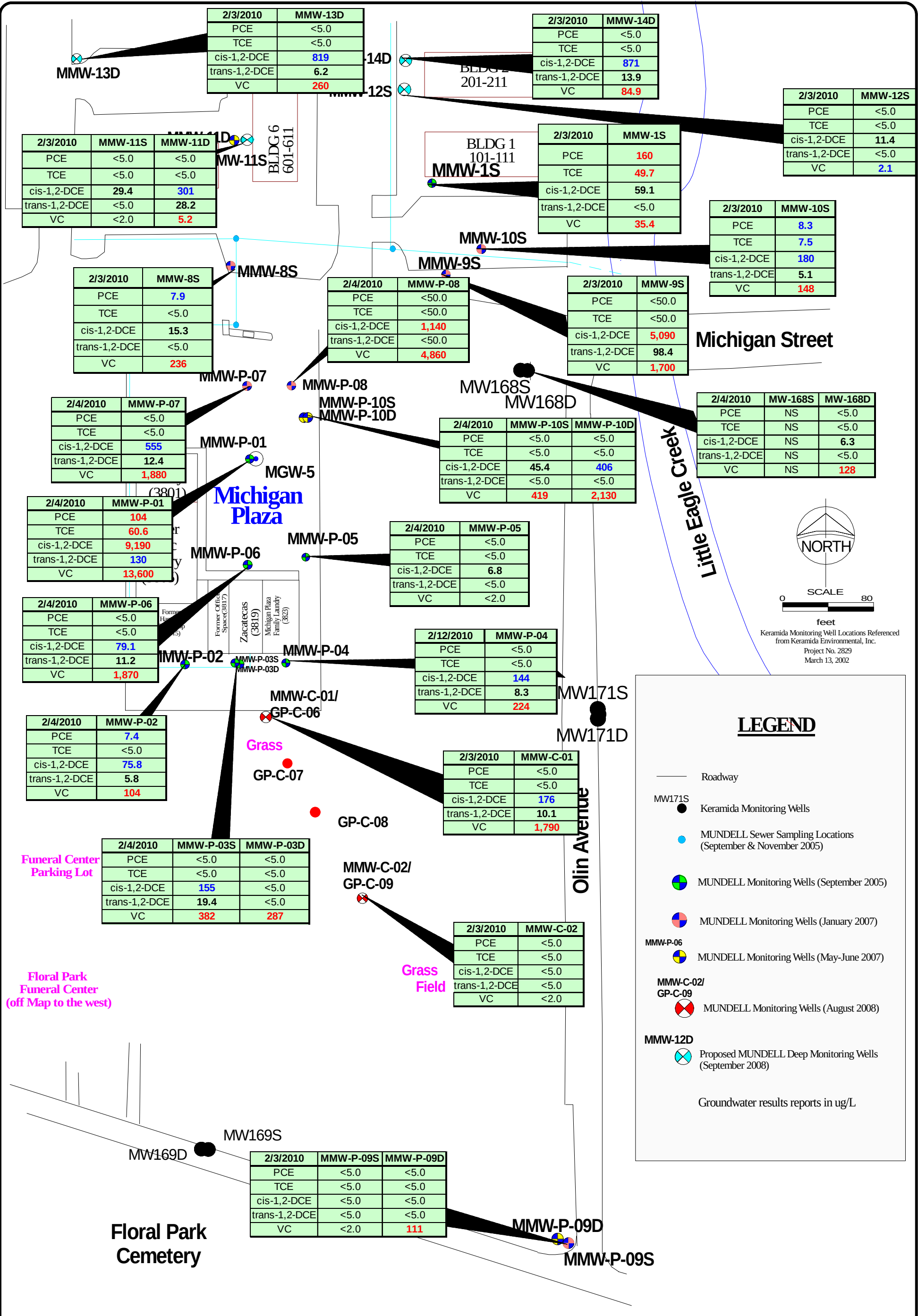
110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
4/25/2010
Scale:
1"=200'

Recent & Historical Air Analytical Results
Michigan Apartments & Michigan Plaza
3800-3823 West Michigan Avenue
Indianapolis, Indiana

FIGURE

2



MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065

Project Number:

M01046

Drawing File:

Date Prepared:

2/20/10

Scale:

1"=80'

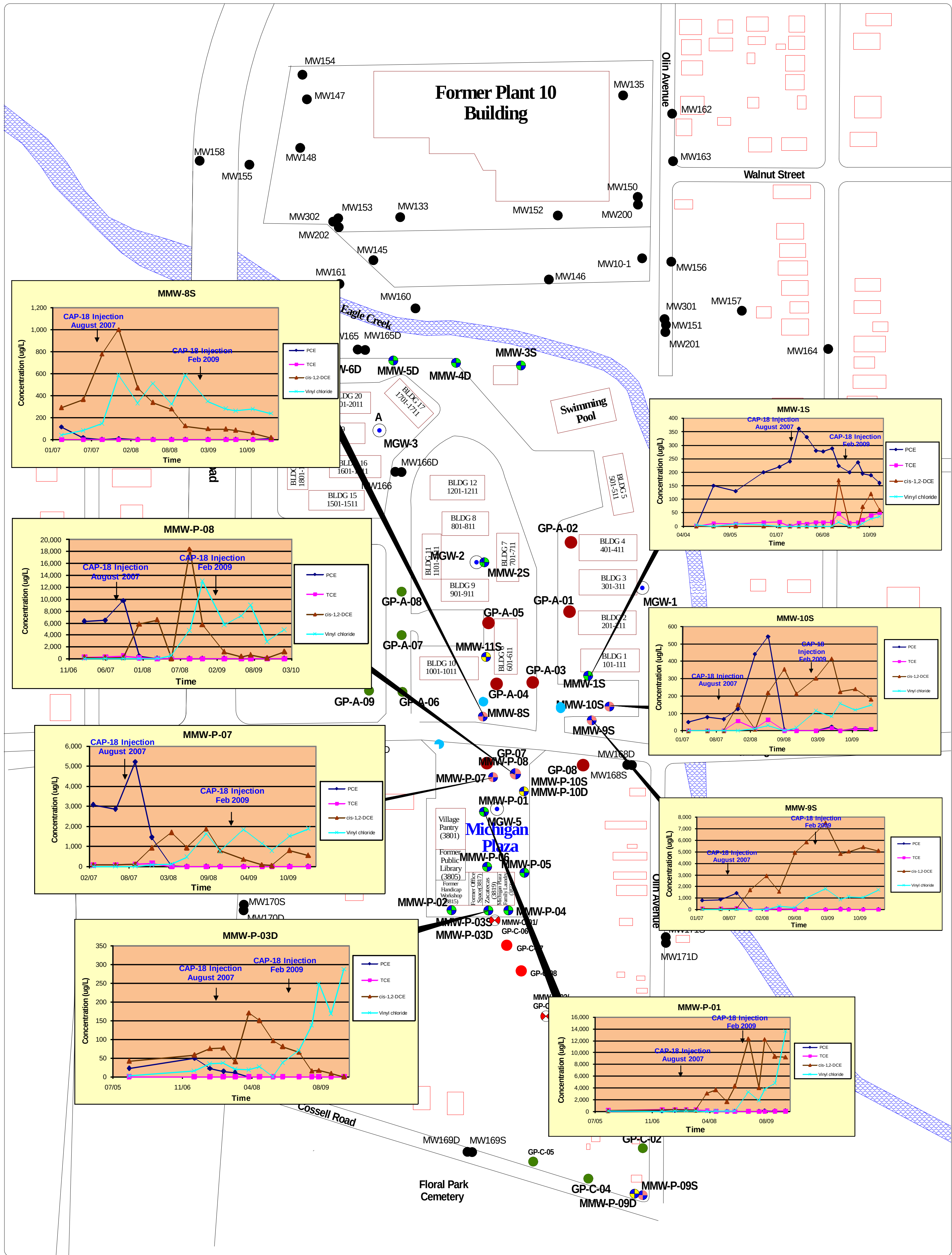
GROUNDWATER ANALYTICAL RESULTS

First Quarter 2010

Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE

3



LEGEND

- Mundell Test Pit (TP-3) Sampling Locations (April 2005)
- Sewer Excavation Sampling Locations (October 2007)
- Fence
- Sewer Line
- MMW-11S MUNEDELL Monitoring Wells (May-June 2007)
- MW160 Keramida Monitoring Wells
- SS-P-01 MUNEDELL Sewer Sampling Locations/manholes (September & November 2005)
- GP-07 MUNEDELL Soil Boring Locations (September 2005)
- MMW-P-06 MUNEDELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-04 MUNEDELL Soil Boring Locations (January 2007)
- MMW-P-07 MUNEDELL Monitoring Wells (January 2007)
- MMW-C-01 MUNEDELL Monitoring Wells (July/August 2008)
- GP-C-06 MUNEDELL Soil Boring Locations (July/August 2008)



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

MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

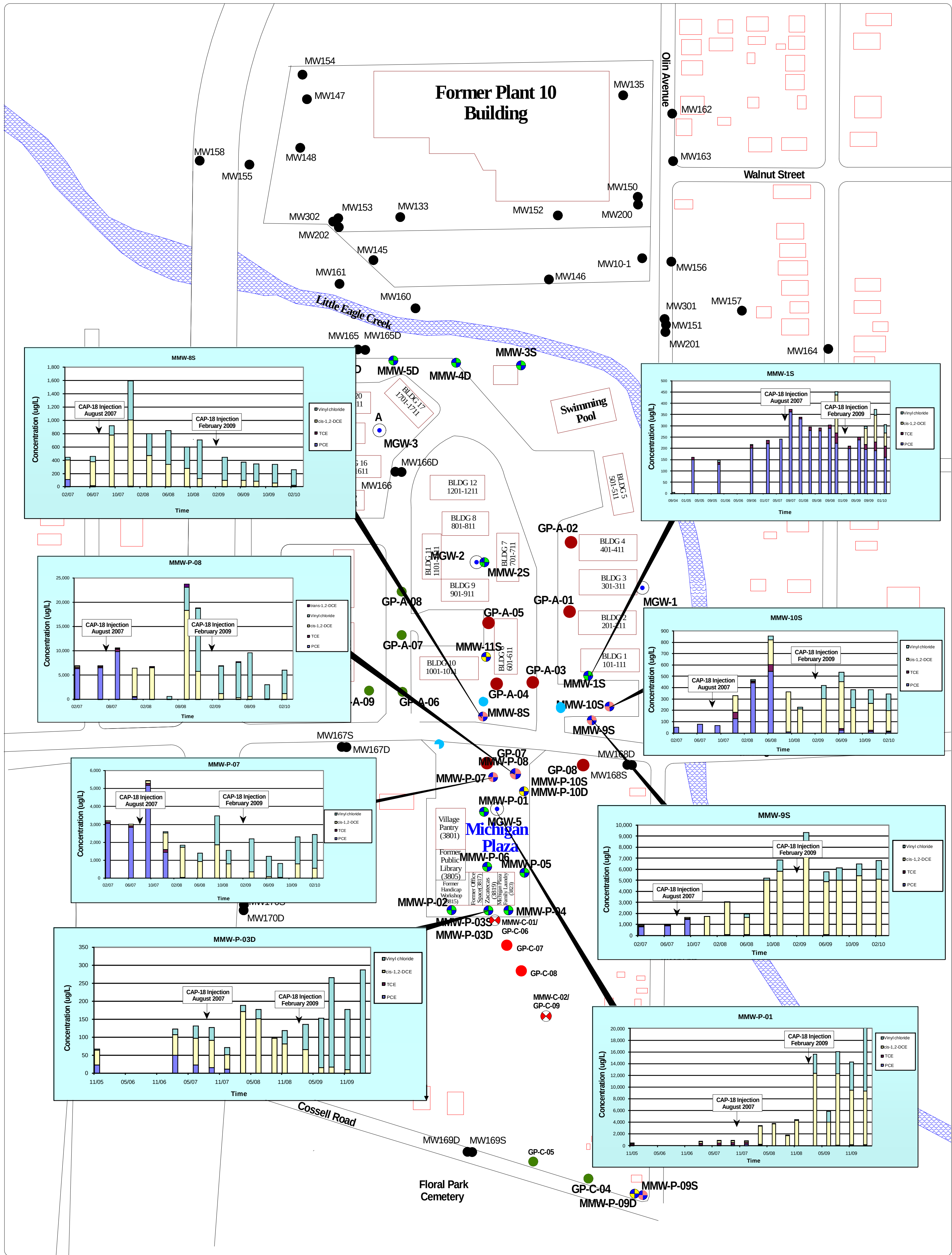
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Base Map.SKF
Date Prepared: 4/10/2010
Scale:

Indicator Compound Trends in Groundwater
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE

4



LEGEND

- Mundell Test Pit (TP-3) Sampling Locations (April 2005)
- Sewer Excavation Sampling Locations (October 2007)
- Fence
- Sewer Line
- MMW-11S MUNEELL Monitoring Wells (May-June 2007)
- MW160 Keramida Monitoring Wells
- SS-P-01 MUNEELL Sewer Sampling Locations/manholes (September & November 2005)
- GP-07 MUNEELL Soil Boring Locations (September 2005)
- MMW-P-06 MUNEELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-04 MUNEELL Soil Boring Locations (January 2007)
- MMW-P-07 MUNEELL Monitoring Wells (January 2007)
- MMW-C-01 MUNEELL Monitoring Wells (July/August 2008)
- GP-C-06 MUNEELL Soil Boring Locations (July/August 2008)



SCALE
0 200
feet

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

MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

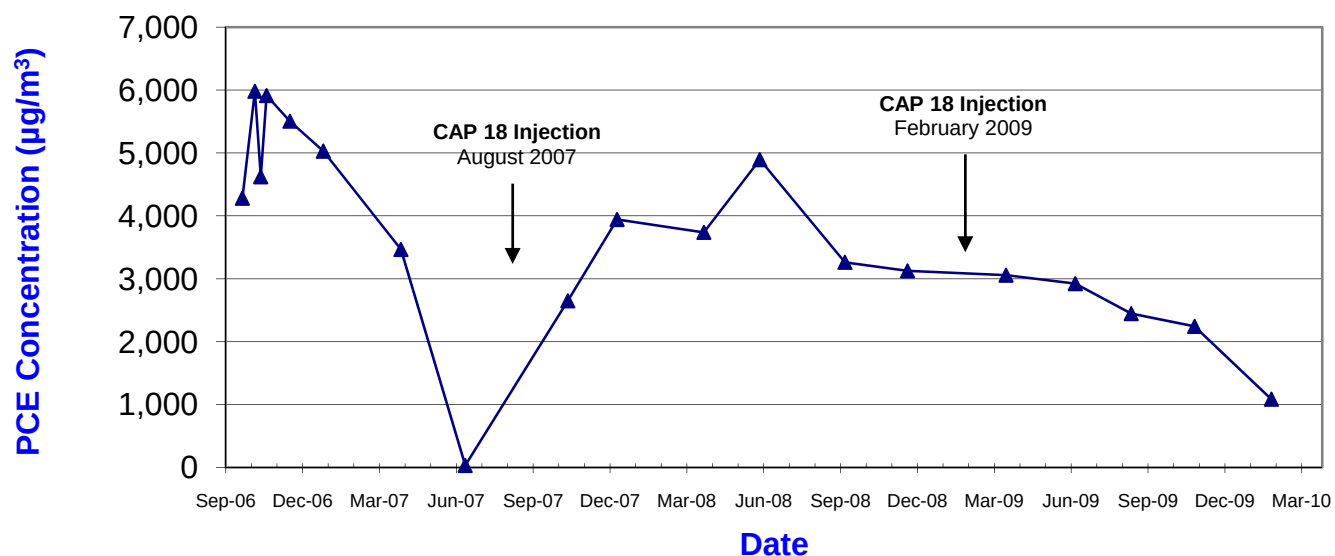
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
4/22/2010
Scale:

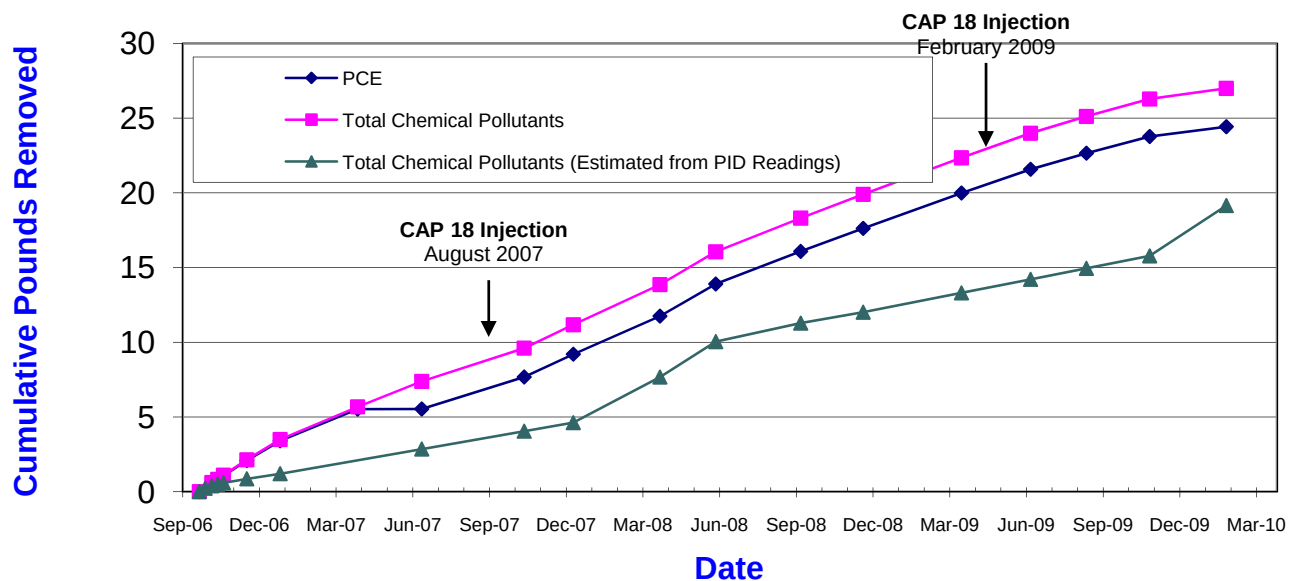
**Parent and Daughter Products
Distribution in Groundwater**
First Quarter 2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE
5

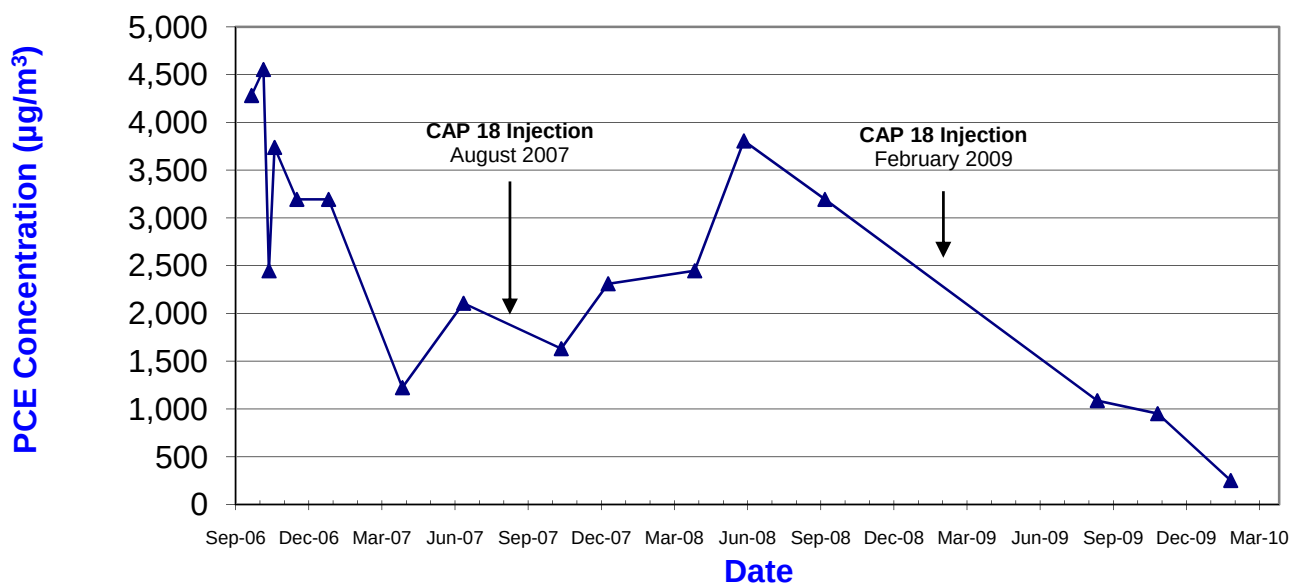
PCE Vapor Concentrations Trend - Village Pantry Vapor Mitigation System (B1)



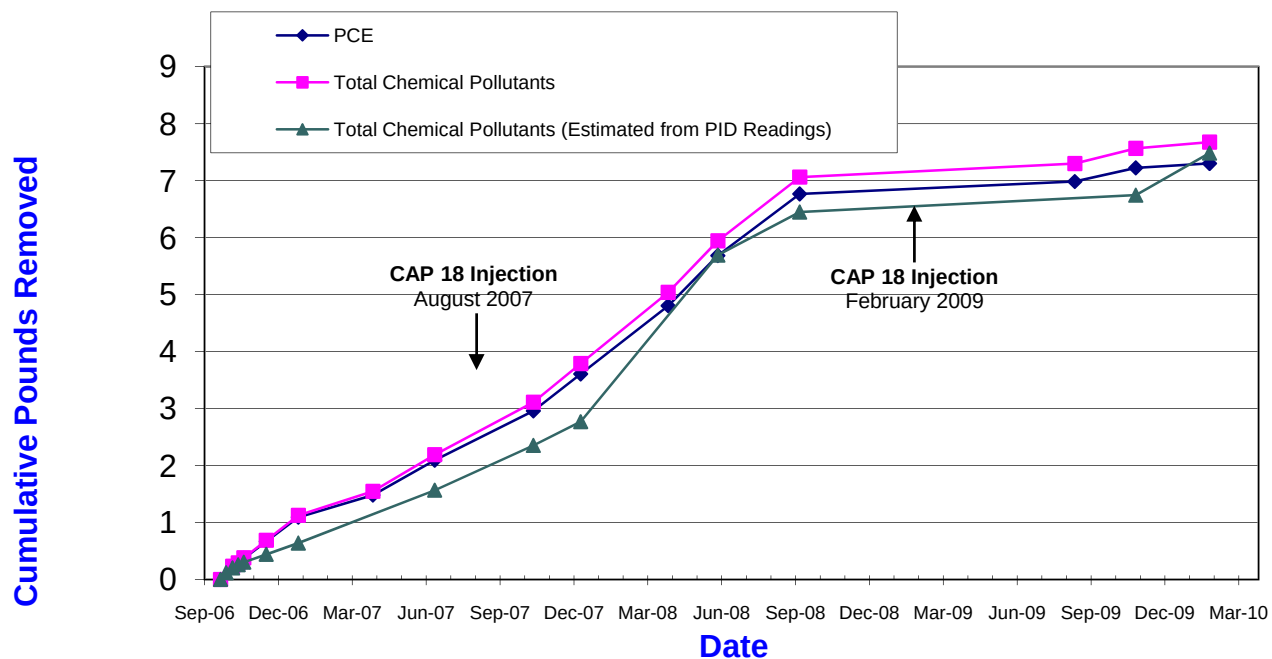
Chemical Pounds Removed - Village Pantry Vapor Mitigation System (B1)



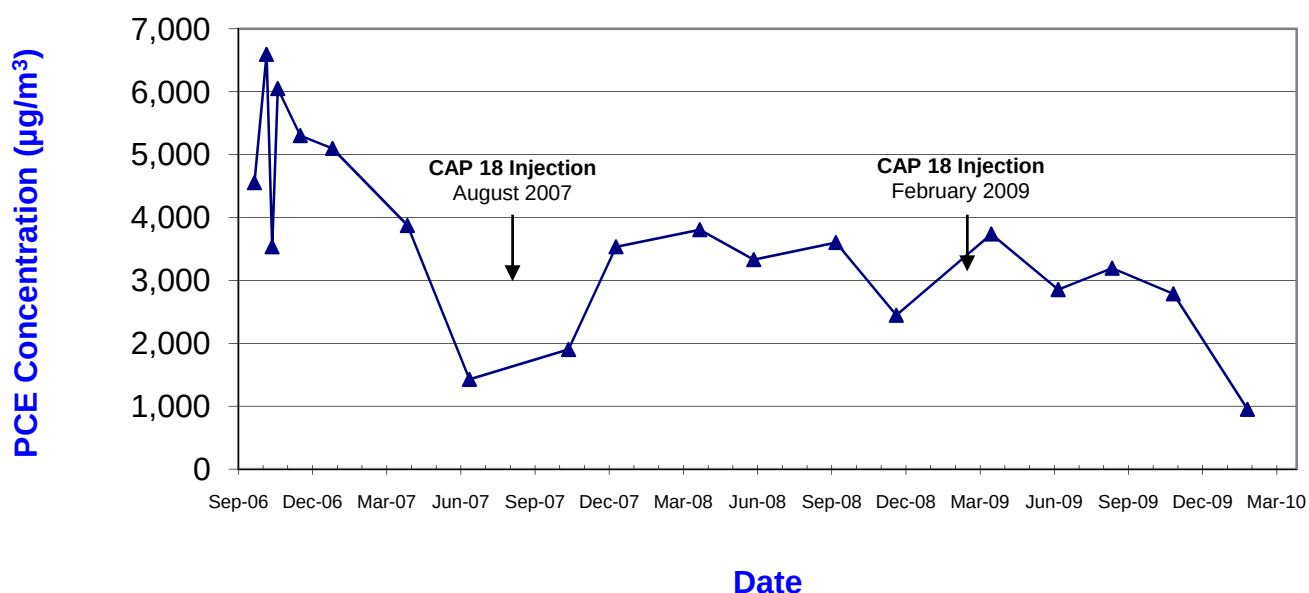
PCE Vapor Concentrations Trend - Handicap Space Vapor Mitigation System (B2)



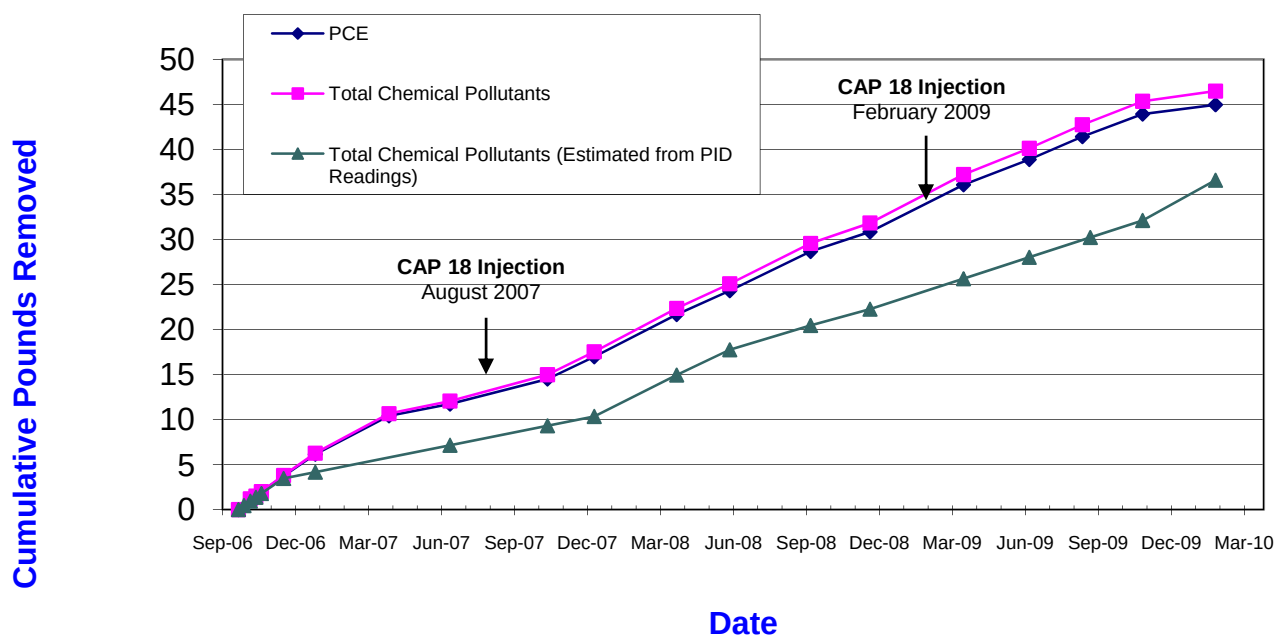
Chemical Pounds Removed - Handicap Space Vapor Mitigation System (B2)



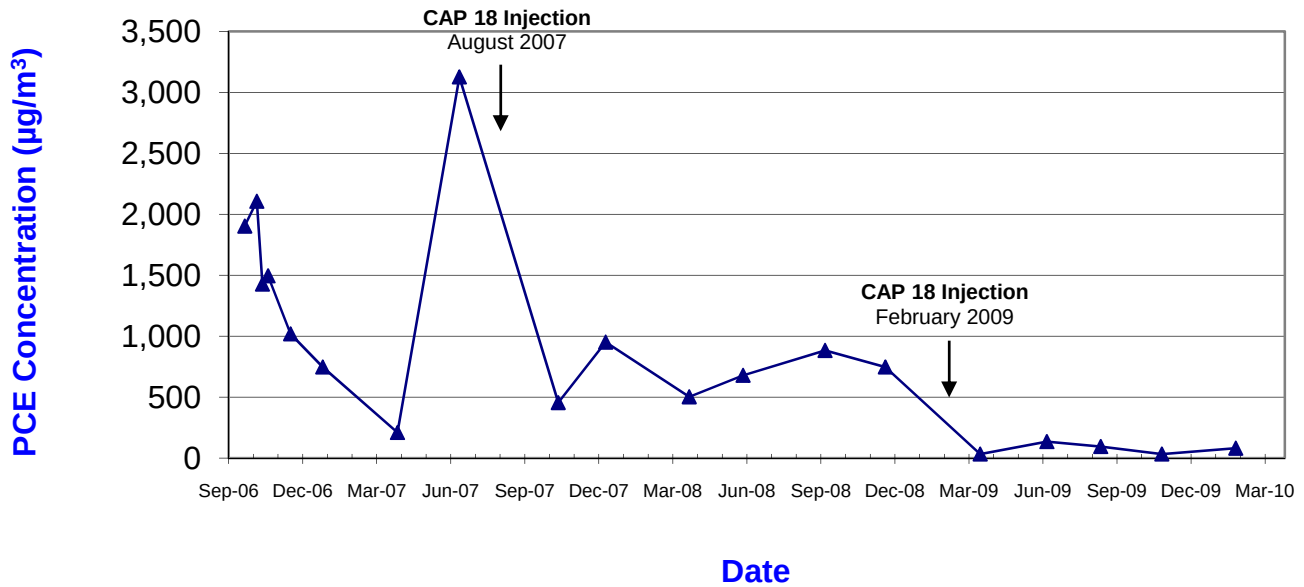
PCE Vapor Concentrations Trend - Mexican Store Vapor Mitigation System (B3)



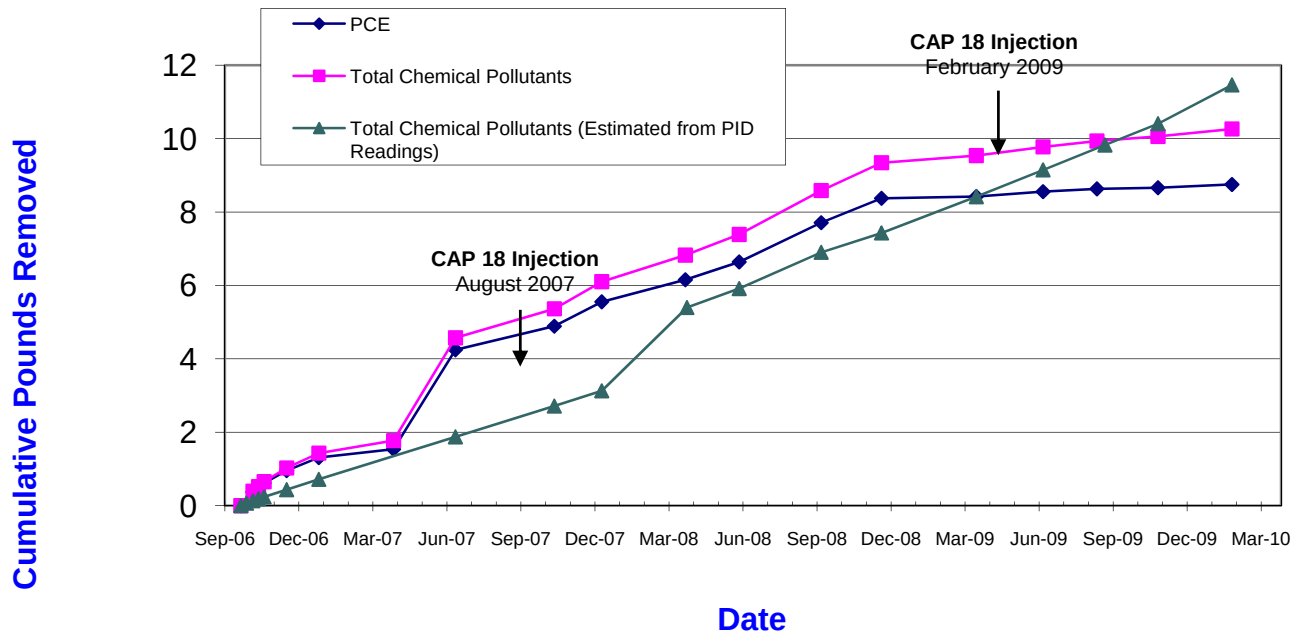
Chemical Pounds Removed - Mexican Store Vapor Mitigation System (B3)



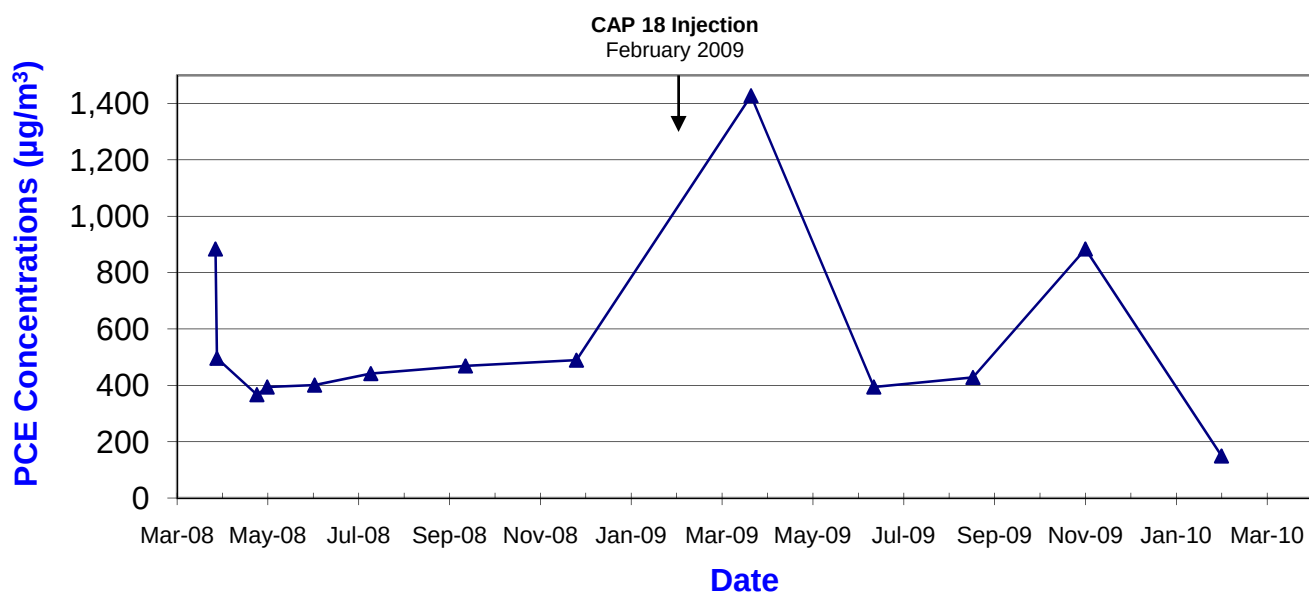
**PCE Vapor Concentrations Trend -
Laundromat Vapor Mitigation System (B4)**



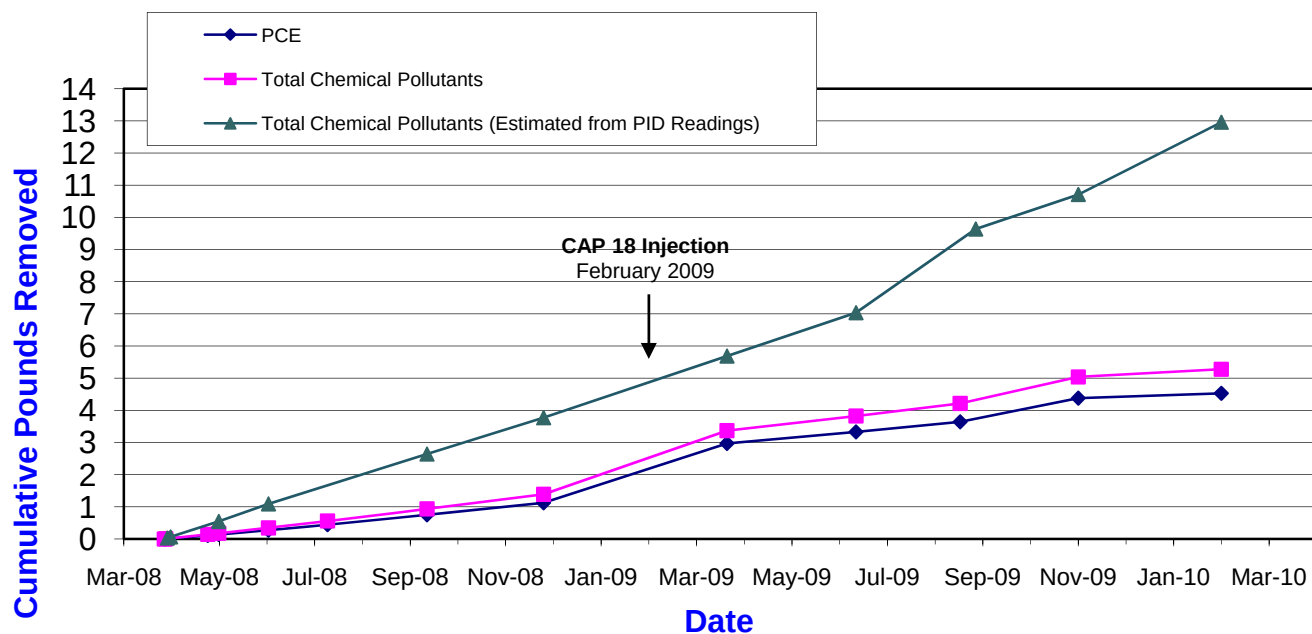
**Chemical Pounds Removed -
Laundromat Vapor Mitigation System (B4)**



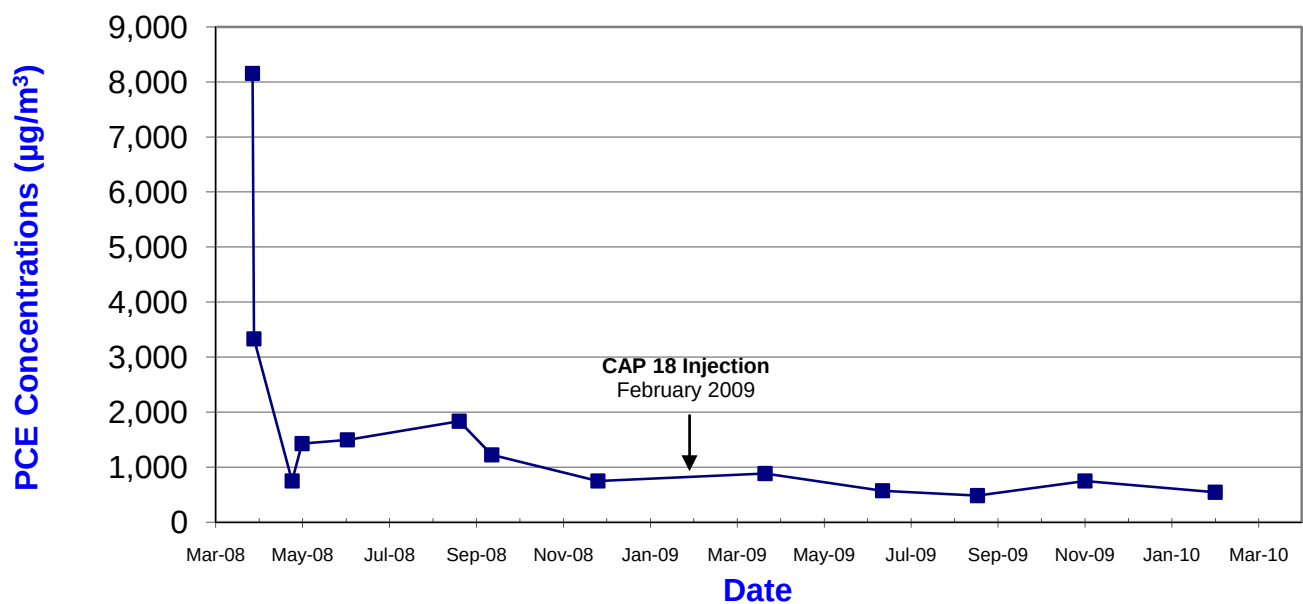
PCE Vapor Concentrations Trend - Apartment Building 1 Vapor Mitigation System (B5)



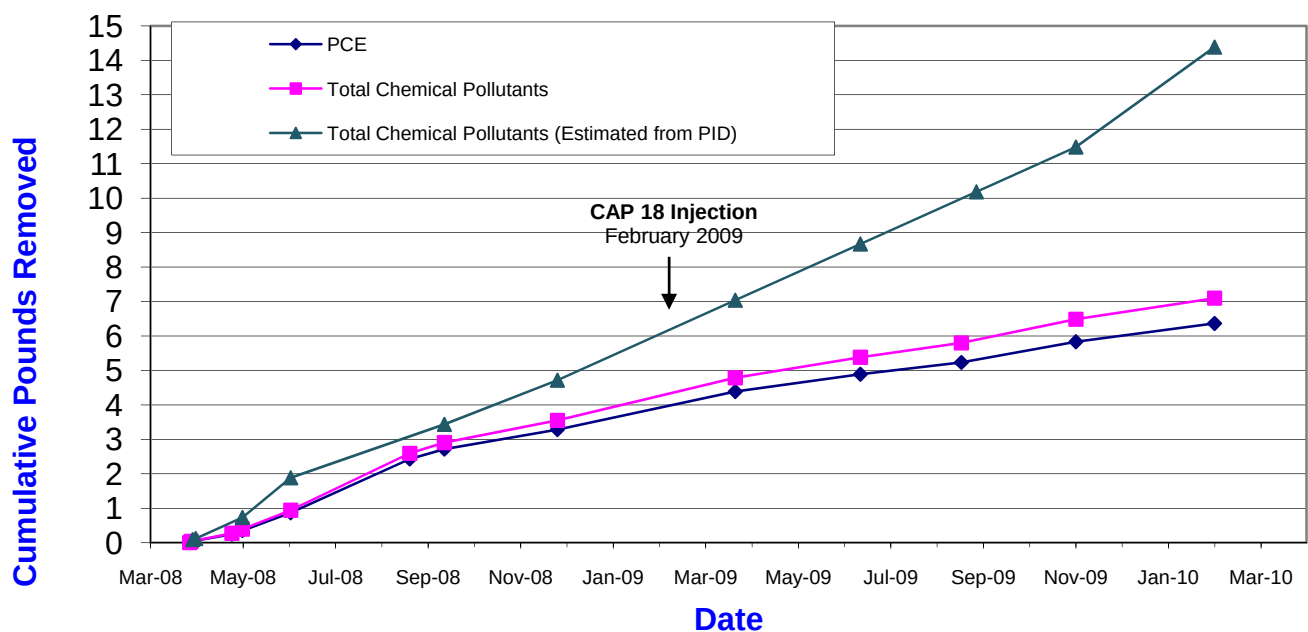
Chemical Pounds Removed - Apartment Building 1 Vapor Mitigation System (B5)



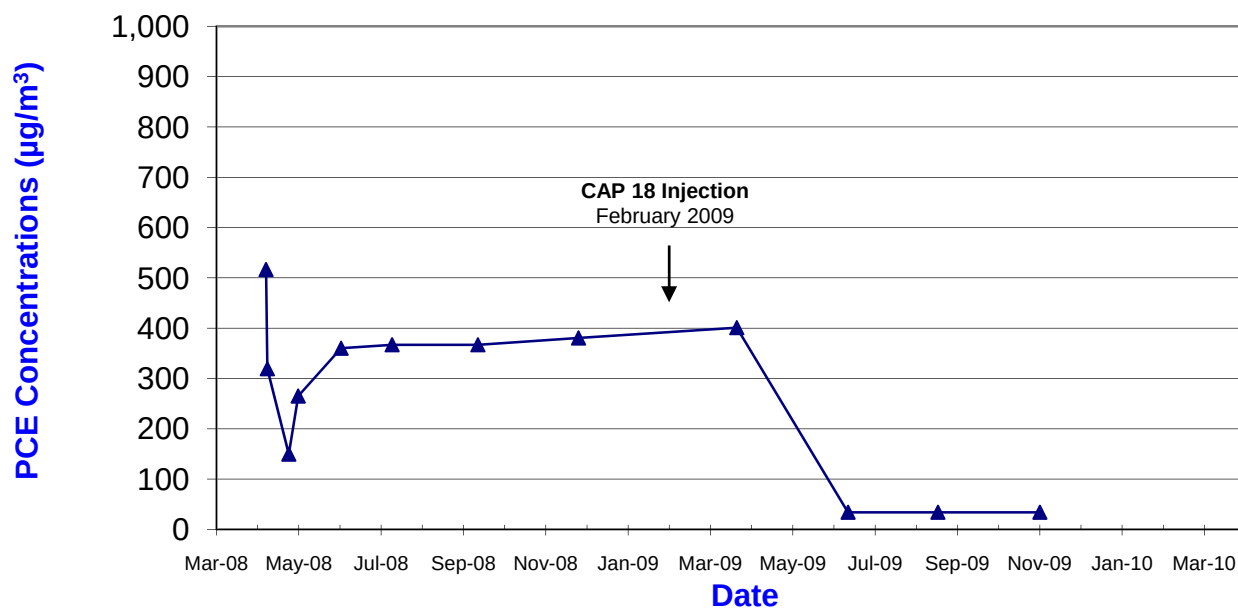
**PCE Vapor Concentrations Trend -
Apartment Building 6 Vapor Mitigation System (B6)**



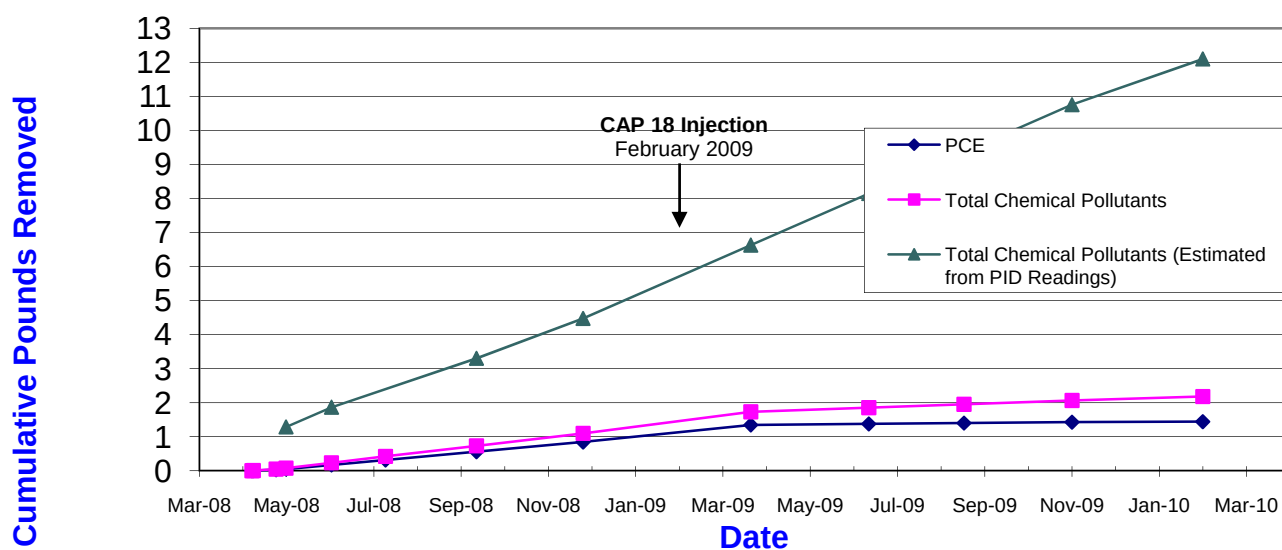
**Chemical Pounds Removed -
Apartment Building 6 Vapor Mitigation System (B6)**

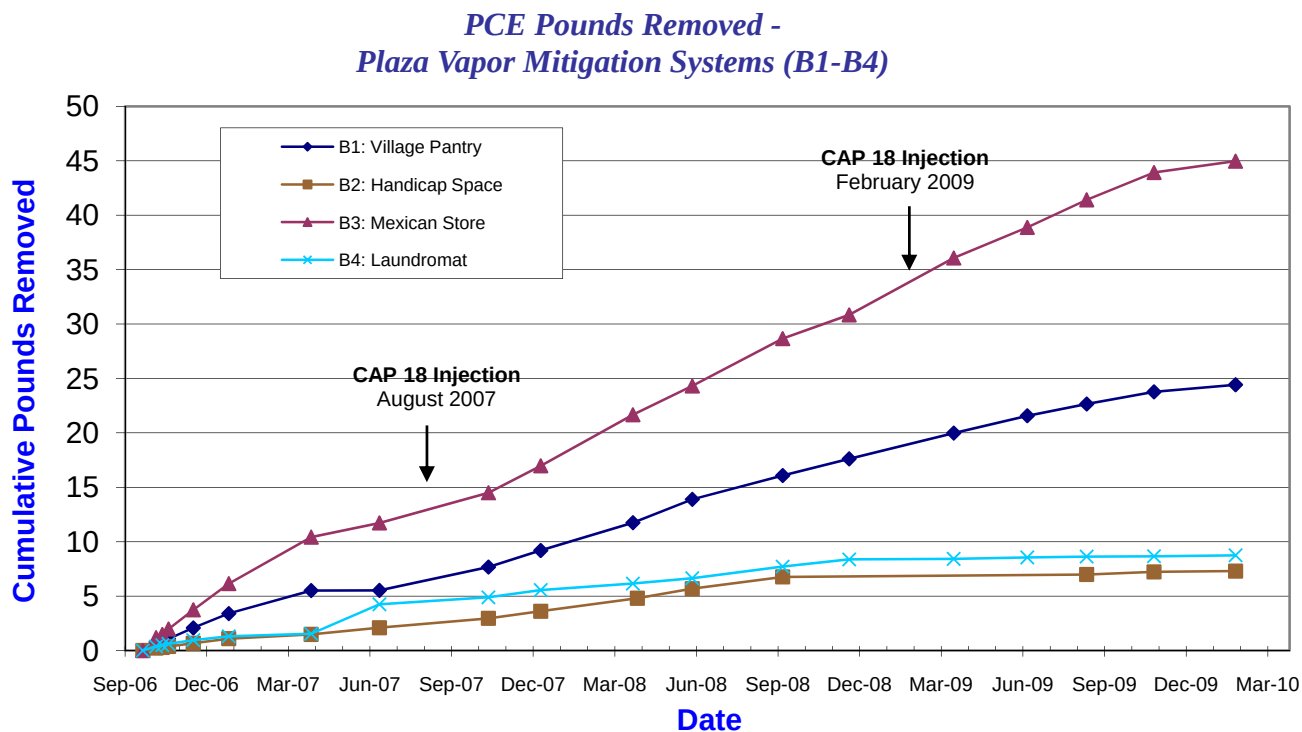
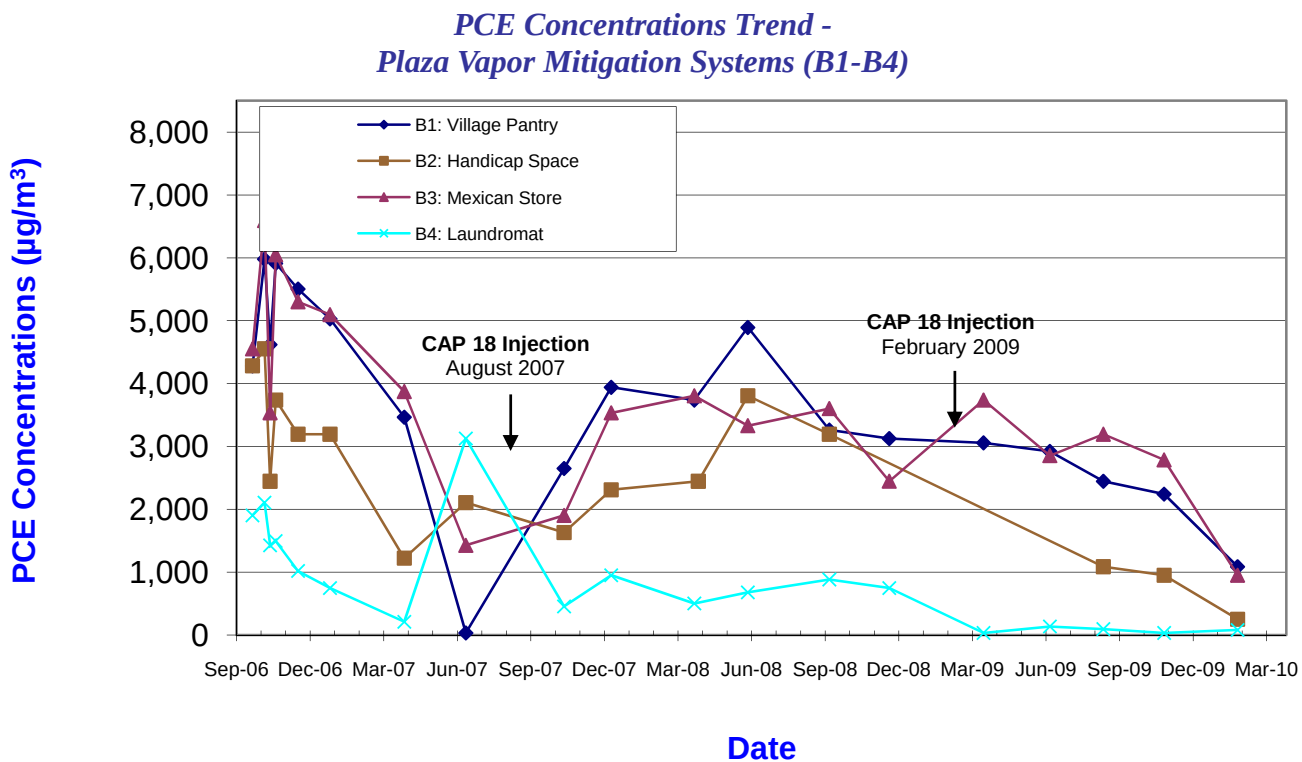


**PCE Vapor Concentrations Trend -
Apartment Building 10 Vapor Mitigation System (B7)**

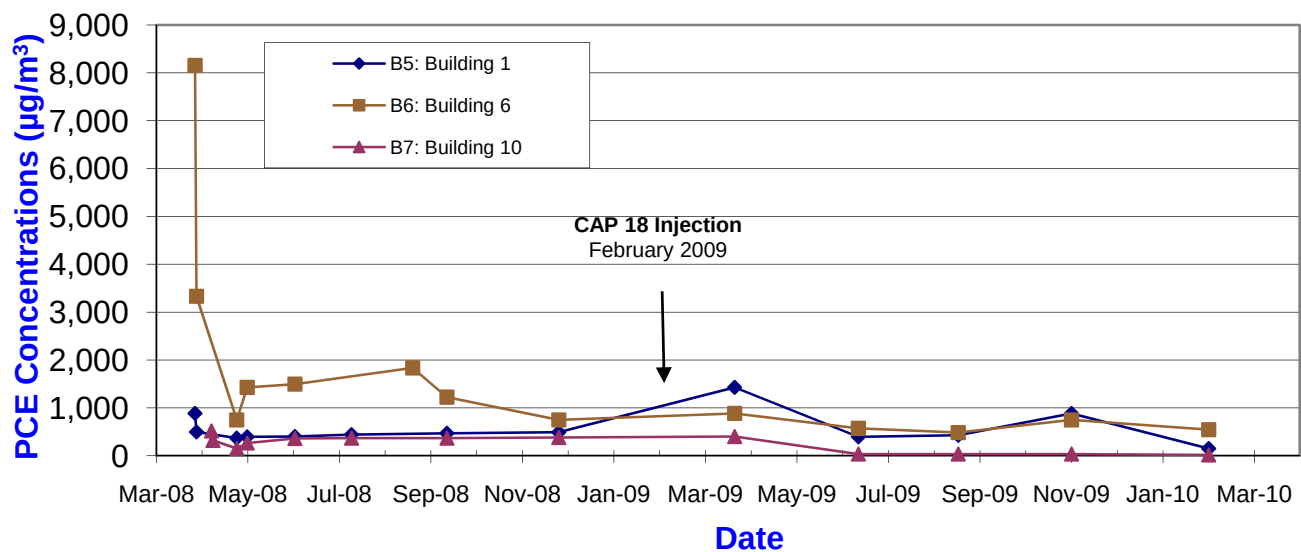


**Chemical Pounds Removed -
Apartment Building 10 Vapor Mitigation System (B7)**

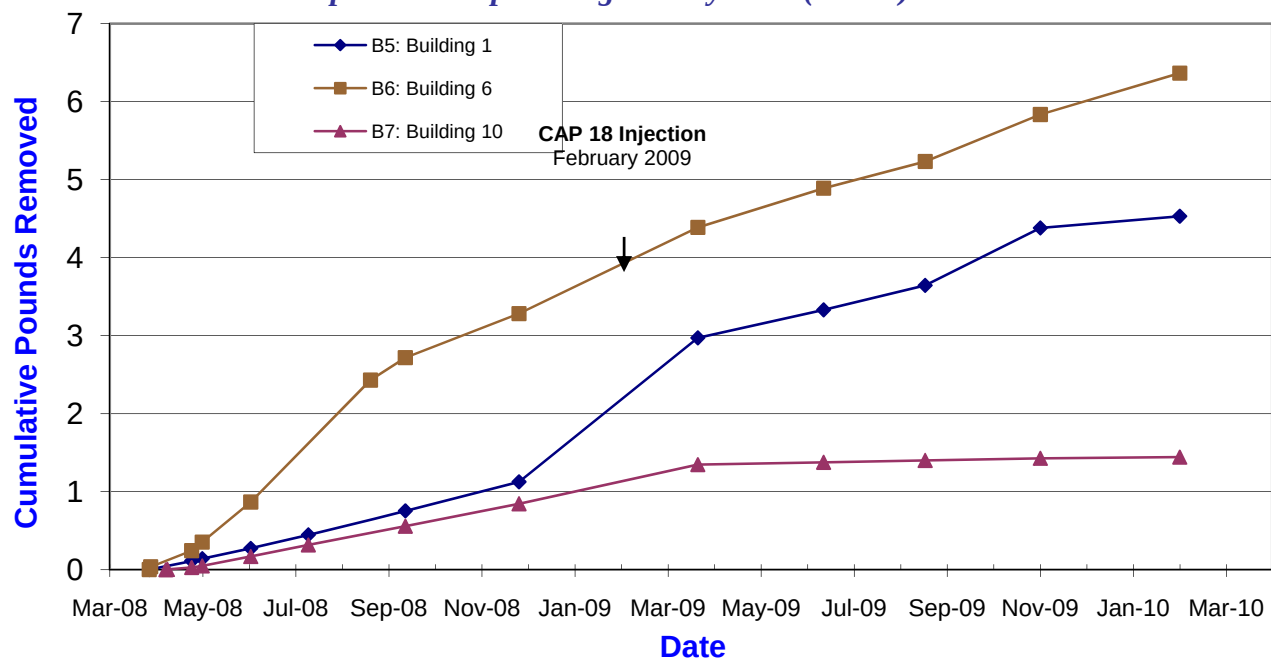




PCE Concentrations Trend - Apartment Vapor Mitigation Systems (B5-B7)



PCE Pounds Removed - Apartment Vapor Mitigation Systems (B5-B7)



APPENDIX A

Lab Analytical Results

February 15, 2010

Ms. Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

RE: Project: Michigan Plaza
Pace Project No.: 5034444

Dear Ms. Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 04, 2010. The results relate only to the samples included in this report. 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,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

cc: Jelling Lai, Mundell & Associates

REPORT OF LABORATORY ANALYSIS

Page 1 of 24

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SAMPLE SUMMARY

Project: Michigan Plaza

Pace Project No.: 5034444

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034444001	MMW-1S	Water	02/03/10 12:33	02/04/10 10:40
5034444002	MMW-8S	Water	02/03/10 13:40	02/04/10 10:40
5034444003	MMW-9S	Water	02/03/10 11:43	02/04/10 10:40
5034444004	MMW-10S	Water	02/03/10 12:08	02/04/10 10:40
5034444005	MMW-11S	Water	02/03/10 13:08	02/04/10 10:40
5034444006	MMW-11D	Water	02/03/10 13:25	02/04/10 10:40
5034444007	MMW-12S	Water	02/03/10 11:15	02/04/10 10:40
5034444008	MMW-14D	Water	02/03/10 11:30	02/04/10 10:40
5034444009	MMW-13D	Water	02/03/10 12:48	02/04/10 10:40
5034444010	MMW-P-09S	Water	02/03/10 14:26	02/04/10 10:40
5034444011	MMW-P-09D	Water	02/03/10 14:05	02/04/10 10:40
5034444012	MMW-C-01	Water	02/03/10 14:59	02/04/10 10:40
5034444013	MMW-C-02	Water	02/03/10 14:44	02/04/10 10:40

REPORT OF LABORATORY ANALYSIS

Page 2 of 24

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza

Pace Project No.: 5034444

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5034444001	MMW-1S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444002	MMW-8S	EPA 8260	ALA	18
5034444003	MMW-9S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444004	MMW-10S	EPA 8260	ALA	18
5034444005	MMW-11S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444006	MMW-11D	EPA 8260	ALA	18
5034444007	MMW-12S	EPA 8260	ALA	18
5034444008	MMW-14D	EPA 8260	ALA	18
5034444009	MMW-13D	EPA 8260	ALA	18
5034444010	MMW-P-09S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034444011	MMW-P-09D	EPA 8260	ALA	18
5034444012	MMW-C-01	EPA 8260	ALA	18
5034444013	MMW-C-02	EPA 8260	ALA	18

REPORT OF LABORATORY ANALYSIS

Page 3 of 24

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-1S		Lab ID: 5034444001	Collected: 02/03/10 12:33	Received: 02/04/10 10:40	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		02/09/10 15:09	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 15:09	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 15:09	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 15:09	75-35-4	
cis-1,2-Dichloroethene	59.1 ug/L		5.0	1		02/09/10 15:09	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/09/10 15:09	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 15:09	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 15:09	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 15:09	91-20-3	
Tetrachloroethene	160 ug/L		5.0	1		02/09/10 15:09	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 15:09	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 15:09	71-55-6	
Trichloroethene	49.7 ug/L		5.0	1		02/09/10 15:09	79-01-6	
Vinyl chloride	35.4 ug/L		2.0	1		02/09/10 15:09	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 15:09	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		02/09/10 15:09	1868-53-7	
4-Bromofluorobenzene (S)	107 %		70-126	1		02/09/10 15:09	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/09/10 15:09	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND mg/L		0.10	1		02/04/10 19:37		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	13.3 mg/L		5.0	1		02/09/10 11:00	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-8S		Lab ID: 5034444002	Collected: 02/03/10 13:40	Received: 02/04/10 10:40	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		02/09/10 15:41	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 15:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 15:41	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:41	75-35-4	
cis-1,2-Dichloroethene	15.3	ug/L	5.0	1		02/09/10 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 15:41	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 15:41	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 15:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 15:41	91-20-3	
Tetrachloroethene	7.9	ug/L	5.0	1		02/09/10 15:41	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 15:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 15:41	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 15:41	79-01-6	
Vinyl chloride	236	ug/L	2.0	1		02/09/10 15:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 15:41	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		02/09/10 15:41	1868-53-7	
4-Bromofluorobenzene (S)	107	%	70-126	1		02/09/10 15:41	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		02/09/10 15:41	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-9S		Lab ID: 5034444003	Collected: 02/03/10 11:43	Received: 02/04/10 10:40	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		02/09/10 16:45	71-43-2	1d
Carbon tetrachloride	ND	ug/L	50.0	10		02/09/10 16:45	56-23-5	
Chloroform	ND	ug/L	50.0	10		02/09/10 16:45	67-66-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		02/09/10 16:45	75-35-4	
cis-1,2-Dichloroethene	5090	ug/L	500	100		02/09/10 18:25	156-59-2	
trans-1,2-Dichloroethene	98.4	ug/L	50.0	10		02/09/10 16:45	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		02/09/10 16:45	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		02/09/10 16:45	75-09-2	
Naphthalene	ND	ug/L	50.0	10		02/09/10 16:45	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		02/09/10 16:45	127-18-4	2d
Toluene	ND	ug/L	50.0	10		02/09/10 16:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		02/09/10 16:45	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		02/09/10 16:45	79-01-6	3d
Vinyl chloride	1700	ug/L	20.0	10		02/09/10 16:45	75-01-4	
Xylene (Total)	ND	ug/L	100	10		02/09/10 16:45	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	10		02/09/10 16:45	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	10		02/09/10 16:45	460-00-4	
Toluene-d8 (S)	103	%	80-116	10		02/09/10 16:45	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/04/10 19:29		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	116	mg/L	25.0	5		02/09/10 11:00	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-10S		Lab ID: 5034444004	Collected: 02/03/10 12:08	Received: 02/04/10 10:40	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		02/09/10 18:59	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 18:59	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 18:59	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 18:59	75-35-4	
cis-1,2-Dichloroethene	180	ug/L	5.0	1		02/09/10 18:59	156-59-2	
trans-1,2-Dichloroethene	5.1	ug/L	5.0	1		02/09/10 18:59	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 18:59	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 18:59	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 18:59	91-20-3	
Tetrachloroethene	8.3	ug/L	5.0	1		02/09/10 18:59	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 18:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 18:59	71-55-6	
Trichloroethene	7.5	ug/L	5.0	1		02/09/10 18:59	79-01-6	
Vinyl chloride	148	ug/L	2.0	1		02/09/10 18:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 18:59	1330-20-7	
Dibromofluoromethane (S)	111	%	80-123	1		02/09/10 18:59	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		02/09/10 18:59	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		02/09/10 18:59	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-11S		Lab ID: 5034444005	Collected: 02/03/10 13:08	Received: 02/04/10 10:40	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		02/09/10 19:31	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 19:31	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 19:31	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 19:31	75-35-4	
cis-1,2-Dichloroethene	29.4 ug/L		5.0	1		02/09/10 19:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/09/10 19:31	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 19:31	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 19:31	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 19:31	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/09/10 19:31	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 19:31	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 19:31	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/09/10 19:31	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/09/10 19:31	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 19:31	1330-20-7	
Dibromofluoromethane (S)	114 %		80-123	1		02/09/10 19:31	1868-53-7	
4-Bromofluorobenzene (S)	109 %		70-126	1		02/09/10 19:31	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		02/09/10 19:31	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	3.6 mg/L		0.10	1		02/04/10 19:38		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	159 mg/L		50.0	10		02/09/10 11:00	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-11D		Lab ID: 5034444006	Collected: 02/03/10 13:25	Received: 02/04/10 10:40	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		02/09/10 20:34	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 20:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 20:34	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 20:34	75-35-4	
cis-1,2-Dichloroethene	301	ug/L	50.0	10		02/10/10 17:56	156-59-2	
trans-1,2-Dichloroethene	28.2	ug/L	5.0	1		02/09/10 20:34	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 20:34	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 20:34	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 20:34	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 20:34	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 20:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 20:34	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 20:34	79-01-6	
Vinyl chloride	5.2	ug/L	2.0	1		02/09/10 20:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 20:34	1330-20-7	
Dibromofluoromethane (S)	118	%	80-123	1		02/09/10 20:34	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		02/09/10 20:34	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		02/09/10 20:34	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-12S		Lab ID: 5034444007		Collected: 02/03/10 11:15		Received: 02/04/10 10:40		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		02/09/10 21:06	71-43-2		
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 21:06	56-23-5		
Chloroform	ND	ug/L	5.0	1		02/09/10 21:06	67-66-3		
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:06	75-35-4		
cis-1,2-Dichloroethene	11.4	ug/L	5.0	1		02/09/10 21:06	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:06	156-60-5		
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 21:06	100-41-4		
Methylene chloride	ND	ug/L	5.0	1		02/09/10 21:06	75-09-2		
Naphthalene	ND	ug/L	5.0	1		02/09/10 21:06	91-20-3		
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 21:06	127-18-4		
Toluene	ND	ug/L	5.0	1		02/09/10 21:06	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 21:06	71-55-6		
Trichloroethene	ND	ug/L	5.0	1		02/09/10 21:06	79-01-6		
Vinyl chloride	2.1	ug/L	2.0	1		02/09/10 21:06	75-01-4		
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 21:06	1330-20-7		
Dibromofluoromethane (S)	115	%	80-123	1		02/09/10 21:06	1868-53-7		
4-Bromofluorobenzene (S)	106	%	70-126	1		02/09/10 21:06	460-00-4		
Toluene-d8 (S)	101	%	80-116	1		02/09/10 21:06	2037-26-5		

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-14D		Lab ID: 5034444008	Collected: 02/03/10 11:30	Received: 02/04/10 10:40	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		02/09/10 21:38	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 21:38	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 21:38	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 21:38	75-35-4	
cis-1,2-Dichloroethene	871	ug/L	50.0	10		02/09/10 22:10	156-59-2	
trans-1,2-Dichloroethene	13.9	ug/L	5.0	1		02/09/10 21:38	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 21:38	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 21:38	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 21:38	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 21:38	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 21:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 21:38	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 21:38	79-01-6	
Vinyl chloride	84.9	ug/L	2.0	1		02/09/10 21:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 21:38	1330-20-7	
Dibromofluoromethane (S)	109	%	80-123	1		02/09/10 21:38	1868-53-7	
4-Bromofluorobenzene (S)	104	%	70-126	1		02/09/10 21:38	460-00-4	
Toluene-d8 (S)	98	%	80-116	1		02/09/10 21:38	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-13D		Lab ID: 5034444009	Collected: 02/03/10 12:48	Received: 02/04/10 10:40	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		02/10/10 18:28	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 18:28	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 18:28	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 18:28	75-35-4	
cis-1,2-Dichloroethene	819	ug/L	50.0	10		02/10/10 19:00	156-59-2	
trans-1,2-Dichloroethene	6.2	ug/L	5.0	1		02/10/10 18:28	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 18:28	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 18:28	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 18:28	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 18:28	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 18:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 18:28	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 18:28	79-01-6	
Vinyl chloride	260	ug/L	2.0	1		02/10/10 18:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 18:28	1330-20-7	
Dibromofluoromethane (S)	125	%	80-123	1		02/10/10 18:28	1868-53-7	S2
4-Bromofluorobenzene (S)	106	%	70-126	1		02/10/10 18:28	460-00-4	
Toluene-d8 (S)	104	%	80-116	1		02/10/10 18:28	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-P-09S		Lab ID: 5034444010	Collected: 02/03/10 14:26	Received: 02/04/10 10:40	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		02/09/10 23:14	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/09/10 23:14	56-23-5	
Chloroform	ND ug/L		5.0	1		02/09/10 23:14	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/09/10 23:14	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/09/10 23:14	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/09/10 23:14	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/09/10 23:14	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/09/10 23:14	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/09/10 23:14	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/09/10 23:14	127-18-4	
Toluene	ND ug/L		5.0	1		02/09/10 23:14	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/09/10 23:14	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/09/10 23:14	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/09/10 23:14	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/09/10 23:14	1330-20-7	
Dibromofluoromethane (S)	122 %		80-123	1		02/09/10 23:14	1868-53-7	
4-Bromofluorobenzene (S)	109 %		70-126	1		02/09/10 23:14	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		02/09/10 23:14	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	0.58 mg/L		0.10	1		02/04/10 19:40		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	85.8 mg/L		25.0	5		02/09/10 11:00	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-P-09D		Lab ID: 5034444011	Collected: 02/03/10 14:05	Received: 02/04/10 10:40	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		02/09/10 23:46	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/09/10 23:46	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/09/10 23:46	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/09/10 23:46	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/09/10 23:46	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/09/10 23:46	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/09/10 23:46	127-18-4	
Toluene	ND	ug/L	5.0	1		02/09/10 23:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/09/10 23:46	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/09/10 23:46	79-01-6	
Vinyl chloride	111	ug/L	2.0	1		02/09/10 23:46	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/09/10 23:46	1330-20-7	
Dibromofluoromethane (S)	122	%	80-123	1		02/09/10 23:46	1868-53-7	
4-Bromofluorobenzene (S)	108	%	70-126	1		02/09/10 23:46	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		02/09/10 23:46	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-C-01		Lab ID: 5034444012	Collected: 02/03/10 14:59	Received: 02/04/10 10:40	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		02/10/10 02:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 02:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 02:30	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 02:30	75-35-4	
cis-1,2-Dichloroethene	176	ug/L	5.0	1		02/10/10 02:30	156-59-2	
trans-1,2-Dichloroethene	10.1	ug/L	5.0	1		02/10/10 02:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 02:30	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 02:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 02:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 02:30	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 02:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 02:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 02:30	79-01-6	
Vinyl chloride	1790	ug/L	50.0	25		02/10/10 19:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 02:30	1330-20-7	
Dibromofluoromethane (S)	117	%	80-123	1		02/10/10 02:30	1868-53-7	
4-Bromofluorobenzene (S)	106	%	70-126	1		02/10/10 02:30	460-00-4	
Toluene-d8 (S)	97	%	80-116	1		02/10/10 02:30	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034444

Sample: MMW-C-02		Lab ID: 5034444013	Collected: 02/03/10 14:44	Received: 02/04/10 10:40	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		02/10/10 03:02	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 03:02	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 03:02	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 03:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 03:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 03:02	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 03:02	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 03:02	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 03:02	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 03:02	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 03:02	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 03:02	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 03:02	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/10/10 03:02	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 03:02	1330-20-7	
Dibromofluoromethane (S)	115 %		80-123	1		02/10/10 03:02	1868-53-7	
4-Bromofluorobenzene (S)	103 %		70-126	1		02/10/10 03:02	460-00-4	
Toluene-d8 (S)	97 %		80-116	1		02/10/10 03:02	2037-26-5	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034444

QC Batch:	MSV/21608	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5034444001, 5034444002, 5034444003, 5034444004, 5034444005, 5034444006, 5034444007, 5034444008, 5034444010, 5034444011		

METHOD BLANK: 396014 Matrix: Water

Associated Lab Samples: 5034444001, 5034444002, 5034444003, 5034444004, 5034444005, 5034444006, 5034444007, 5034444008, 5034444010, 5034444011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/09/10 13:33	
1,1-Dichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Benzene	ug/L	ND	5.0	02/09/10 13:33	
Carbon tetrachloride	ug/L	ND	5.0	02/09/10 13:33	
Chloroform	ug/L	ND	5.0	02/09/10 13:33	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Ethylbenzene	ug/L	ND	5.0	02/09/10 13:33	
Methylene chloride	ug/L	ND	5.0	02/09/10 13:33	
Naphthalene	ug/L	ND	5.0	02/09/10 13:33	
Tetrachloroethene	ug/L	ND	5.0	02/09/10 13:33	
Toluene	ug/L	ND	5.0	02/09/10 13:33	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Trichloroethene	ug/L	ND	5.0	02/09/10 13:33	
Vinyl chloride	ug/L	ND	2.0	02/09/10 13:33	
Xylene (Total)	ug/L	ND	10.0	02/09/10 13:33	
4-Bromofluorobenzene (S)	%	104	70-126	02/09/10 13:33	
Dibromofluoromethane (S)	%	105	80-123	02/09/10 13:33	
Toluene-d8 (S)	%	97	80-116	02/09/10 13:33	

LABORATORY CONTROL SAMPLE: 396015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	69-136	
1,1-Dichloroethene	ug/L	50	64.0	128	63-128	
Benzene	ug/L	50	52.1	104	78-127	
Carbon tetrachloride	ug/L	50	52.5	105	62-143	
Chloroform	ug/L	50	54.9	110	74-131	
cis-1,2-Dichloroethene	ug/L	50	55.5	111	74-128	
Ethylbenzene	ug/L	50	52.1	104	81-126	
Methylene chloride	ug/L	50	52.8	106	32-164	
Naphthalene	ug/L	50	50.6	101	61-135	
Tetrachloroethene	ug/L	50	49.5	99	60-119	
Toluene	ug/L	50	48.2	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	60.2	120	71-126	
Trichloroethene	ug/L	50	53.7	107	74-130	
Vinyl chloride	ug/L	50	51.9	104	55-141	
Xylene (Total)	ug/L	150	157	105	76-132	
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			104	80-123	
Toluene-d8 (S)	%			101	80-116	

Date: 02/15/2010 11:26 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034444

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 396016 396017											
Parameter	Units	5034444003		MS	MSD	MS	MSD	MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike						RPD
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD
1,1,1-Trichloroethane	ug/L	ND	500	500	500	545	538	109	108	64-143	1
1,1-Dichloroethene	ug/L	ND	500	500	500	621	624	124	125	55-140	.6
Benzene	ug/L	ND	500	500	500	488	492	98	98	63-141	.7
Carbon tetrachloride	ug/L	ND	500	500	500	499	493	100	99	54-145	1
Chloroform	ug/L	ND	500	500	500	518	518	104	104	67-134	.05
cis-1,2-Dichloroethene	ug/L	5090	500	500	500	5480	5590	80	100	65-132	2
Ethylbenzene	ug/L	ND	500	500	500	460	478	92	96	44-151	4
Methylene chloride	ug/L	ND	500	500	500	499	523	100	105	46-154	5
Naphthalene	ug/L	ND	500	500	500	427	454	85	91	44-138	6
Tetrachloroethene	ug/L	ND	500	500	500	424	458	85	92	25-146	8
Toluene	ug/L	ND	500	500	500	435	467	87	93	59-142	7
trans-1,2-Dichloroethene	ug/L	98.4	500	500	500	671	652	114	111	60-137	3
Trichloroethene	ug/L	ND	500	500	500	503	509	101	102	61-137	1
Vinyl chloride	ug/L	1700	500	500	500	2220	2100	104	81	51-144	5
Xylene (Total)	ug/L	ND	1500	1500	1500	1370	1440	92	96	44-152	5
4-Bromofluorobenzene (S)	%							104	108	70-126	20
Dibromofluoromethane (S)	%							108	107	80-123	20
Toluene-d8 (S)	%							102	103	80-116	20

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034444

QC Batch: MSV/21609

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 5034444012, 5034444013

METHOD BLANK: 396018

Matrix: Water

Associated Lab Samples: 5034444012, 5034444013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 01:56	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Benzene	ug/L	ND	5.0	02/10/10 01:56	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 01:56	
Chloroform	ug/L	ND	5.0	02/10/10 01:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Ethylbenzene	ug/L	ND	5.0	02/10/10 01:56	
Methylene chloride	ug/L	ND	5.0	02/10/10 01:56	
Naphthalene	ug/L	ND	5.0	02/10/10 01:56	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 01:56	
Toluene	ug/L	ND	5.0	02/10/10 01:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Trichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Vinyl chloride	ug/L	ND	2.0	02/10/10 01:56	
Xylene (Total)	ug/L	ND	10.0	02/10/10 01:56	
4-Bromofluorobenzene (S)	%	111	70-126	02/10/10 01:56	
Dibromofluoromethane (S)	%	129	80-123	02/10/10 01:56	S3
Toluene-d8 (S)	%	100	80-116	02/10/10 01:56	

LABORATORY CONTROL SAMPLE: 396019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.4	119	69-136	
1,1-Dichloroethene	ug/L	50	65.6	131	63-128	L3
Benzene	ug/L	50	53.3	107	78-127	
Carbon tetrachloride	ug/L	50	53.4	107	62-143	
Chloroform	ug/L	50	56.9	114	74-131	
cis-1,2-Dichloroethene	ug/L	50	56.2	112	74-128	
Ethylbenzene	ug/L	50	50.1	100	81-126	
Methylene chloride	ug/L	50	53.5	107	32-164	
Naphthalene	ug/L	50	57.1	114	61-135	
Tetrachloroethene	ug/L	50	48.5	97	60-119	
Toluene	ug/L	50	48.2	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	60.6	121	71-126	
Trichloroethene	ug/L	50	53.2	106	74-130	
Vinyl chloride	ug/L	50	54.4	109	55-141	
Xylene (Total)	ug/L	150	151	100	76-132	
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			108	80-123	
Toluene-d8 (S)	%			99	80-116	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034444

QC Batch: MSV/21634

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 5034444009

METHOD BLANK: 396230

Matrix: Water

Associated Lab Samples: 5034444009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 14:43	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Benzene	ug/L	ND	5.0	02/10/10 14:43	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 14:43	
Chloroform	ug/L	ND	5.0	02/10/10 14:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Ethylbenzene	ug/L	ND	5.0	02/10/10 14:43	
Methylene chloride	ug/L	ND	5.0	02/10/10 14:43	
Naphthalene	ug/L	ND	5.0	02/10/10 14:43	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 14:43	
Toluene	ug/L	ND	5.0	02/10/10 14:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Trichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Vinyl chloride	ug/L	ND	2.0	02/10/10 14:43	
Xylene (Total)	ug/L	ND	10.0	02/10/10 14:43	
4-Bromofluorobenzene (S)	%	105	70-126	02/10/10 14:43	
Dibromofluoromethane (S)	%	111	80-123	02/10/10 14:43	
Toluene-d8 (S)	%	106	80-116	02/10/10 14:43	

LABORATORY CONTROL SAMPLE: 396231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	69-136	
1,1-Dichloroethene	ug/L	50	60.3	121	63-128	
Benzene	ug/L	50	48.6	97	78-127	
Carbon tetrachloride	ug/L	50	48.9	98	62-143	
Chloroform	ug/L	50	52.6	105	74-131	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	74-128	
Ethylbenzene	ug/L	50	52.6	105	81-126	
Methylene chloride	ug/L	50	50.5	101	32-164	
Naphthalene	ug/L	50	51.5	103	61-135	
Tetrachloroethene	ug/L	50	50.8	102	60-119	
Toluene	ug/L	50	50.0	100	75-129	
trans-1,2-Dichloroethene	ug/L	50	56.4	113	71-126	
Trichloroethene	ug/L	50	49.8	100	74-130	
Vinyl chloride	ug/L	50	50.5	101	55-141	
Xylene (Total)	ug/L	150	155	103	76-132	
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			106	80-123	
Toluene-d8 (S)	%			110	80-116	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034444

MATRIX SPIKE SAMPLE:		396256						
Parameter	Units	5034555002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,1,1-Trichloroethane	ug/L	ND	50	41.3	83	64-143		
1,1-Dichloroethene	ug/L	ND	50	48.9	98	55-140		
Benzene	ug/L	ND	50	37.0	74	63-141		
Carbon tetrachloride	ug/L	ND	50	38.1	76	54-145		
Chloroform	ug/L	ND	50	39.9	80	67-134		
cis-1,2-Dichloroethene	ug/L	ND	50	39.5	79	65-132		
Ethylbenzene	ug/L	ND	50	38.8	78	44-151		
Methylene chloride	ug/L	ND	50	37.1	74	46-154		
Naphthalene	ug/L	ND	50	34.4	69	44-138		
Tetrachloroethene	ug/L	ND	50	37.4	75	25-146		
Toluene	ug/L	ND	50	36.8	74	59-142		
trans-1,2-Dichloroethene	ug/L	ND	50	42.6	85	60-137		
Trichloroethene	ug/L	ND	50	39.1	78	61-137		
Vinyl chloride	ug/L	ND	50	40.0	80	51-144		
Xylene (Total)	ug/L	ND	150	117	78	44-152		
4-Bromofluorobenzene (S)	%				102	70-126		
Dibromofluoromethane (S)	%				104	80-123		
Toluene-d8 (S)	%				105	80-116		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:				396257	396258							
Parameter	Units	5034474006	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
		Result	Spike Conc.	Spike Conc.						Result	Result	
1,1,1-Trichloroethane	ug/L	ND	50	50	61.1	61.1	122	122	64-143	.008	20	M0
1,1-Dichloroethene	ug/L	ND	50	50	72.1	82.8	144	166	55-140	14	20	
Benzene	ug/L	ND	50	50	51.2	53.1	102	106	63-141	4	20	
Carbon tetrachloride	ug/L	ND	50	50	55.7	56.9	111	114	54-145	2	20	
Chloroform	ug/L	ND	50	50	57.5	58.0	115	116	67-134	.9	20	
cis-1,2-Dichloroethene	ug/L	6.8	50	50	67.2	67.6	121	122	65-132	.5	20	
Ethylbenzene	ug/L	ND	50	50	47.6	49.3	95	99	44-151	4	20	
Methylene chloride	ug/L	ND	50	50	52.6	55.7	105	111	46-154	6	20	
Naphthalene	ug/L	ND	50	50	46.9	48.0	94	96	44-138	2	20	
Tetrachloroethene	ug/L	ND	50	50	46.8	45.5	94	91	25-146	3	20	
Toluene	ug/L	ND	50	50	45.6	45.4	91	91	59-142	.5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	62.7	63.6	125	127	60-137	1	20	
Trichloroethene	ug/L	ND	50	50	53.6	52.0	107	104	61-137	3	20	
Vinyl chloride	ug/L	ND	50	50	58.0	61.6	113	120	51-144	6	20	
Xylene (Total)	ug/L	ND	150	150	146	149	97	99	44-152	2	20	
4-Bromofluorobenzene (S)	%						102	101	70-126		20	
Dibromofluoromethane (S)	%						116	116	80-123		20	
Toluene-d8 (S)	%						101	98	80-116		20	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034444

QC Batch:	WETA/4639	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	5034444001, 5034444003, 5034444005, 5034444010		

METHOD BLANK:	394747	Matrix:	Water
Associated Lab Samples:	5034444001, 5034444003, 5034444005, 5034444010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/04/10 19:24	

LABORATORY CONTROL SAMPLE: 394748						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.8	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 394749												394750	
Parameter	Units	5034444003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Nitrogen, Nitrate	mg/L	ND	2	2	1.8	1.9	90	92	90-110	1	20		

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5034444

QC Batch: WETA/4646 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5034444001, 5034444003, 5034444005, 5034444010

METHOD BLANK: 395553 Matrix: Water
Associated Lab Samples: 5034444001, 5034444003, 5034444005, 5034444010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/09/10 11:00	

LABORATORY CONTROL SAMPLE: 395554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395555 395556

Parameter	Units	5034382004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	68.9	100	100	170	164	101	95	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395557 395558

Parameter	Units	5034444003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	116	100	100	213	215	97	100	75-125	1	20	

QUALIFIERS

Project: Michigan Plaza

Pace Project No.: 5034444

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.

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.

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

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

ANALYTE QUALIFIERS

1d Benzene evaluated to 5ug/L estimated RL. aa 2/10/10

2d PCE evaluated to 5ug/L estimated RL. aa 2/10/10

3d TCE evaluated to 5ug/L estimated RL. aa 2/10/10

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: <u>1</u> of <u>2</u>	
1339810	
Section C	
Invoice Information:	
Attention: <u>Mark Tebbe</u>	REGULATORY AGENCY
Company Name:	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
Address:	☐ UST ☐ RCRA ☐ OTHER
Pace Quote Reference:	Site Location: <u>IN</u>
Pace Project Manager:	STATE: <u>IN</u>
Pace Profile #:	
Section B Required Project Information: Report To: <u>Leana Lothe</u> Copy To: Purchase Order No.: Project Name: <u>Michigan Plaza</u> Project Number: <u>M0646</u>	
Section A Required Client Information: Company: <u>Mandel i Associates</u> Address: <u>110 S. Downey Ave</u> Indianapolis, IN 46219 Phone: <u>317-630-9060</u> Fax: <u>317-630-9065</u> Requested Due Date/TAT: <u>5/1</u>	

ITEM #	Section D Required Client Information		Section B Required Project Information		Section C Invoice Information		Section A Required Client Information	
	Matrix Codes MATRIX L CODE	Matrix Codes MATRIX R CODE	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code
1	MMW-1S	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
2	MMW-DS	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
3	MMW-9S (MS, MSD)	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
4	MMW-10S	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
5	MMW-11S	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
6	MMW-11D	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
7	MMW-12S	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
8	MMW-14D	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
9	MMW-13D	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
10	MMW-P-09S	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
11	MMW-P-09D	WT 9	DATE	TIME	DATE	TIME	DATE	TIME
12	MMW-C-01	WT 9	DATE	TIME	DATE	TIME	DATE	TIME

Section D	
Additional Comments:	
* Please use short list for VOC's	
Short hold time on Nitrate / Sulfate	
Relinquished By / Affiliation: <u>Jennifer Leana</u> Date: <u>2/4/10</u> Time: <u>10:50</u>	
Accepted By / Affiliation: <u>Zebur Telan</u> Date: <u>2/4/10</u> Time: <u>10:50</u>	
Sample Conditions: <u>Y</u> <u>N</u> <u>Y</u>	
Temp in °C: <u>31.2</u>	
Residual Chlorine (Y/N): <u>Y</u>	
Pace Project No. / Lab I.D.: <u>141444</u>	
Samples Intact (Y/N): <u>Y</u>	
Sealed Cooler (Y/N): <u>Y</u>	
Received on (Y/N): <u>Y</u>	
Date Signed (MM/DD/YYYY): <u>2/3/10</u>	
Signature of Sampler: <u>[Signature]</u>	
Print Name of Sampler: <u>Andy Dammer</u>	
Signature of Sampler: <u>[Signature]</u>	
Print Name of Sampler: <u>Andy Dammer</u>	

Two 11:45 AM 5/1/10
 2/4/10
 8:12 PM

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: <u>Mundell & Associates</u> Address: <u>110 S. Downey</u> Email To: <u>Endpls, EN46219</u> Phone: <u>317-430-9000</u> Fax: <u>317-680-9005</u> Requested Due Date/TAT: <u>5/1</u>		Section B Required Project Information: Report To: <u>Lena Lothe</u> Copy To: _____ Purchase Order No.: _____ Project Name: <u>Michigan Plaza</u> Project Number: <u>M67046</u>		Section C Invoice Information: Attention: <u>Maria Robbe</u> Company Name: <u>Mundell</u> Address: _____ Pace Quote Reference: _____ Pace Project Manager: _____ Pace Profile #: _____	
Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE		Matrix Codes MATRIX / CODE Drinking Water DW Wastewater WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT			

ITEM #	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	MATRIX CODE	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Requested Analysis Filtered (Y/N)	Temp in °C	Received on	Sealed Cooler (Y/N)	Samples Intact (Y/N)
		COMPOSITE START	COMPOSITE END/GRAB										
1	MMW-C-02	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS <u>* Short test voc's</u>	RELINQUISHED BY / AFFILIATION <u>J. F. Hudson</u>	DATE <u>2/4/10</u>	TIME <u>10:40</u>	ACCEPTED BY / AFFILIATION <u>Zachary Tabor</u>	DATE <u>2/4/10</u>	TIME <u>3:20</u>	SAMPLE CONDITIONS Y N Y

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Andy Dammeyer</u> SIGNATURE of SAMPLER: <u>[Signature]</u>		DATE Signed (MM/DD/YY): <u>2/3/10</u>
---	--	---------------------------------------

Sample Condition Upon Receipt



Client Name: Mundell & Assoc.

Project # SD34444

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

Tracking #: _____

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

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other _____

Thermometer Used 123456

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/4/10 27.

Temp should be above freezing to 6°C

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☐ No ☒ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Water</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☒ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

G. Sayer

Date: 02/04/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Container Count

CLIENT: Mundell & Assoc.



COC PAGE 1 of 2
COC ID# 1239810

Project # 5034444

Sample Line

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

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	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
WGFR	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		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	BP3A	250mL NaOH, Asc Acid plastic	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# 135813

Project # 5034444

Sample Line

Item	DG9H	AG1U	WG9U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	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
WG9U	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	BP3A	250mL NaOH, Asc Acid plastic	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

February 17, 2010

Ms. Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

RE: Project: Michigan Plaza
Pace Project No.: 5034474

Dear Ms. Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2010. The results relate only to the samples included in this report. 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,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

cc: Jelling Lai, Mundell & Associates

REPORT OF LABORATORY ANALYSIS

Page 1 of 26

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SAMPLE SUMMARY

Project: Michigan Plaza

Pace Project No.: 5034474

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034474001	MMW-9S	Water	02/04/10 15:00	02/05/10 09:10
5034474002	MMW-P-01	Water	02/04/10 11:14	02/05/10 09:10
5034474003	MMW-P-02	Water	02/04/10 09:46	02/05/10 09:10
5034474004	MMW-P-03S	Water	02/04/10 10:18	02/05/10 09:10
5034474005	MMW-P-03D	Water	02/04/10 10:01	02/05/10 09:10
5034474006	MMW-P-05	Water	02/04/10 10:56	02/05/10 09:10
5034474007	MMW-P-06	Water	02/04/10 10:39	02/05/10 09:10
5034474008	MMW-P-07	Water	02/04/10 11:44	02/05/10 09:10
5034474009	MMW-P-08	Water	02/04/10 12:13	02/05/10 09:10
5034474010	MMW-P-10S	Water	02/04/10 13:11	02/05/10 09:10
5034474011	MMW-P-10D	Water	02/04/10 12:48	02/05/10 09:10
5034474012	MMW-P-168D	Water	02/04/10 14:38	02/05/10 09:10
5034474013	Dup 1	Water	02/04/10 08:00	02/05/10 09:10
5034474014	Dup 2	Water	02/04/10 08:00	02/05/10 09:10
5034474015	Trip Blank	Water	02/04/10 08:00	02/05/10 09:10

REPORT OF LABORATORY ANALYSIS

Page 2 of 26

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza
Pace Project No.: 5034474

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5034474001	MMW-9S	SM 2340B	FRW	1
5034474002	MMW-P-01	EPA 8260	ALA	18
5034474003	MMW-P-02	EPA 8260	ALA	18
5034474004	MMW-P-03S	SM 2340B	FRW	1
		EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474005	MMW-P-03D	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474006	MMW-P-05	EPA 8260	ALA	18
5034474007	MMW-P-06	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474008	MMW-P-07	EPA 8260	ALA	18
5034474009	MMW-P-08	SM 2340B	FRW	1
		EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474010	MMW-P-10S	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474011	MMW-P-10D	EPA 8260	ALA	18
5034474012	MMW-P-168D	EPA 8260	ALA	18
		EPA 353.2	CLS	1
		ASTM D516-90,02	ILP	1
5034474013	Dup 1	SM 2340B	FRW	1
		EPA 8260	ALA	18
5034474014	Dup 2	EPA 8260	ALA	18
5034474015	Trip Blank	EPA 8260	ALA	18

REPORT OF LABORATORY ANALYSIS

Page 3 of 26

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-9S		Lab ID: 5034474001	Collected: 02/04/10 15:00	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Total Hardness	650	mg/L	1.0	1		02/09/10 17:13		

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-01		Lab ID: 5034474002	Collected: 02/04/10 11:14	Received: 02/05/10 09:10	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		02/10/10 20:04	71-43-2	1d
Carbon tetrachloride	ND	ug/L	50.0	10		02/10/10 20:04	56-23-5	
Chloroform	ND	ug/L	50.0	10		02/10/10 20:04	67-66-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		02/10/10 20:04	75-35-4	
cis-1,2-Dichloroethene	9190	ug/L	500	100		02/10/10 20:36	156-59-2	
trans-1,2-Dichloroethene	130	ug/L	50.0	10		02/10/10 20:04	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		02/10/10 20:04	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		02/10/10 20:04	75-09-2	
Naphthalene	ND	ug/L	50.0	10		02/10/10 20:04	91-20-3	
Tetrachloroethene	104	ug/L	50.0	10		02/10/10 20:04	127-18-4	
Toluene	ND	ug/L	50.0	10		02/10/10 20:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		02/10/10 20:04	71-55-6	
Trichloroethene	60.6	ug/L	50.0	10		02/10/10 20:04	79-01-6	
Vinyl chloride	13600	ug/L	200	100		02/10/10 20:36	75-01-4	
Xylene (Total)	ND	ug/L	100	10		02/10/10 20:04	1330-20-7	
Dibromofluoromethane (S)	120	%	80-123	10		02/10/10 20:04	1868-53-7	D4
4-Bromofluorobenzene (S)	108	%	70-126	10		02/10/10 20:04	460-00-4	
Toluene-d8 (S)	105	%	80-116	10		02/10/10 20:04	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-02		Lab ID: 5034474003	Collected: 02/04/10 09:46	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		02/10/10 06:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 06:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 06:48	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 06:48	75-35-4	
cis-1,2-Dichloroethene	75.8	ug/L	5.0	1		02/10/10 06:48	156-59-2	
trans-1,2-Dichloroethene	5.8	ug/L	5.0	1		02/10/10 06:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 06:48	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 06:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 06:48	91-20-3	
Tetrachloroethene	7.4	ug/L	5.0	1		02/10/10 06:48	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 06:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 06:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 06:48	79-01-6	
Vinyl chloride	104	ug/L	2.0	1		02/10/10 06:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 06:48	1330-20-7	
Dibromofluoromethane (S)	113	%	80-123	1		02/10/10 06:48	1868-53-7	
4-Bromofluorobenzene (S)	105	%	70-126	1		02/10/10 06:48	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		02/10/10 06:48	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-03S		Lab ID: 5034474004	Collected: 02/04/10 10:18	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	502	mg/L	1.0	1		02/09/10 17:19		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 07:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 07:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 07:20	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 07:20	75-35-4	
cis-1,2-Dichloroethene	155	ug/L	5.0	1		02/10/10 07:20	156-59-2	
trans-1,2-Dichloroethene	19.4	ug/L	5.0	1		02/10/10 07:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 07:20	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 07:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 07:20	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 07:20	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 07:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 07:20	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 07:20	79-01-6	
Vinyl chloride	382	ug/L	20.0	10		02/10/10 07:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 07:20	1330-20-7	
Dibromofluoromethane (S)	123	%	80-123	1		02/10/10 07:20	1868-53-7	
4-Bromofluorobenzene (S)	107	%	70-126	1		02/10/10 07:20	460-00-4	
Toluene-d8 (S)	97	%	80-116	1		02/10/10 07:20	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/05/10 12:53		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	38.4	mg/L	12.5	2.5		02/15/10 11:57	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-03D		Lab ID: 5034474005	Collected: 02/04/10 10:01	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND ug/L		5.0	1		02/10/10 21:08	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 21:08	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 21:08	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:08	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:08	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 21:08	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 21:08	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 21:08	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 21:08	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 21:08	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 21:08	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 21:08	79-01-6	
Vinyl chloride	287 ug/L		20.0	10		02/10/10 21:40	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 21:08	1330-20-7	
Dibromofluoromethane (S)	127 %		80-123	1		02/10/10 21:08	1868-53-7	S2
4-Bromofluorobenzene (S)	103 %		70-126	1		02/10/10 21:08	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/10/10 21:08	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND mg/L		0.10	1		02/05/10 12:50		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	ND mg/L		5.0	1		02/15/10 11:57	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-05		Lab ID: 5034474006	Collected: 02/04/10 10:56	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		02/10/10 22:12	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 22:12	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 22:12	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 22:12	75-35-4	
cis-1,2-Dichloroethene	6.8	ug/L	5.0	1		02/10/10 22:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 22:12	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 22:12	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 22:12	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 22:12	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 22:12	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 22:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 22:12	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 22:12	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/10/10 22:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 22:12	1330-20-7	
Dibromofluoromethane (S)	124	%	80-123	1		02/10/10 22:12	1868-53-7	S2
4-Bromofluorobenzene (S)	106	%	70-126	1		02/10/10 22:12	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		02/10/10 22:12	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-06		Lab ID: 5034474007	Collected: 02/04/10 10:39	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND ug/L		5.0	1		02/10/10 22:44	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 22:44	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 22:44	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 22:44	75-35-4	
cis-1,2-Dichloroethene	79.1 ug/L		5.0	1		02/10/10 22:44	156-59-2	
trans-1,2-Dichloroethene	11.2 ug/L		5.0	1		02/10/10 22:44	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 22:44	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 22:44	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 22:44	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 22:44	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 22:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 22:44	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 22:44	79-01-6	
Vinyl chloride	1870 ug/L		20.0	10		02/10/10 23:16	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 22:44	1330-20-7	
Dibromofluoromethane (S)	128 %		80-123	1		02/10/10 22:44	1868-53-7	S2
4-Bromofluorobenzene (S)	108 %		70-126	1		02/10/10 22:44	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		02/10/10 22:44	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND mg/L		0.10	1		02/05/10 12:54		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	10.3 mg/L		5.0	1		02/15/10 11:57	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-07		Lab ID: 5034474008	Collected: 02/04/10 11:44	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		02/10/10 23:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 23:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 23:48	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 23:48	75-35-4	
cis-1,2-Dichloroethene	555	ug/L	50.0	10		02/10/10 11:36	156-59-2	
trans-1,2-Dichloroethene	12.4	ug/L	5.0	1		02/10/10 23:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 23:48	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 23:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 23:48	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 23:48	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 23:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 23:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 23:48	79-01-6	
Vinyl chloride	1880	ug/L	20.0	10		02/10/10 11:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 23:48	1330-20-7	
Dibromofluoromethane (S)	129	%	80-123	1		02/10/10 23:48	1868-53-7	S2
4-Bromofluorobenzene (S)	104	%	70-126	1		02/10/10 23:48	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		02/10/10 23:48	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-08		Lab ID: 5034474009	Collected: 02/04/10 12:13	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	764	mg/L	1.0	1		02/09/10 17:25		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	50.0	10		02/11/10 00:22	71-43-2	1d
Carbon tetrachloride	ND	ug/L	50.0	10		02/11/10 00:22	56-23-5	
Chloroform	ND	ug/L	50.0	10		02/11/10 00:22	67-66-3	
1,1-Dichloroethene	ND	ug/L	50.0	10		02/11/10 00:22	75-35-4	
cis-1,2-Dichloroethene	1140	ug/L	50.0	10		02/11/10 00:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		02/11/10 00:22	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		02/11/10 00:22	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		02/11/10 00:22	75-09-2	
Naphthalene	ND	ug/L	50.0	10		02/11/10 00:22	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		02/11/10 00:22	127-18-4	2d
Toluene	ND	ug/L	50.0	10		02/11/10 00:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		02/11/10 00:22	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		02/11/10 00:22	79-01-6	3d
Vinyl chloride	4860	ug/L	200	100		02/11/10 00:55	75-01-4	
Xylene (Total)	ND	ug/L	100	10		02/11/10 00:22	1330-20-7	
Dibromofluoromethane (S)	123	%	80-123	10		02/11/10 00:22	1868-53-7	S2
4-Bromofluorobenzene (S)	104	%	70-126	10		02/11/10 00:22	460-00-4	
Toluene-d8 (S)	102	%	80-116	10		02/11/10 00:22	2037-26-5	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/09/10 18:39		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		02/15/10 11:57	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-10S		Lab ID: 5034474010	Collected: 02/04/10 13:11	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND ug/L		5.0	1		02/10/10 12:08	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 12:08	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 12:08	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 12:08	75-35-4	
cis-1,2-Dichloroethene	45.4 ug/L		5.0	1		02/10/10 12:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 12:08	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 12:08	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 12:08	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 12:08	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 12:08	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 12:08	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 12:08	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 12:08	79-01-6	
Vinyl chloride	419 ug/L		20.0	10		02/10/10 17:05	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 12:08	1330-20-7	
Dibromofluoromethane (S)	118 %		80-123	1		02/10/10 12:08	1868-53-7	
4-Bromofluorobenzene (S)	108 %		70-126	1		02/10/10 12:08	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		02/10/10 12:08	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND mg/L		0.10	1		02/05/10 12:55		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	69.2 mg/L		12.5	2.5		02/15/10 11:57	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-10D		Lab ID: 5034474011	Collected: 02/04/10 12:48	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		02/10/10 17:39	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 17:39	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 17:39	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 17:39	75-35-4	
cis-1,2-Dichloroethene	406	ug/L	50.0	10		02/10/10 18:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 17:39	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 17:39	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 17:39	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 17:39	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 17:39	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 17:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 17:39	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 17:39	79-01-6	
Vinyl chloride	2130	ug/L	20.0	10		02/10/10 18:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 17:39	1330-20-7	
Dibromofluoromethane (S)	107	%	80-123	1		02/10/10 17:39	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/10/10 17:39	460-00-4	
Toluene-d8 (S)	106	%	80-116	1		02/10/10 17:39	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: MMW-P-168D		Lab ID: 5034474012	Collected: 02/04/10 14:38	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND ug/L		5.0	1		02/10/10 18:43	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 18:43	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 18:43	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 18:43	75-35-4	
cis-1,2-Dichloroethene	6.3 ug/L		5.0	1		02/10/10 18:43	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 18:43	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 18:43	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 18:43	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 18:43	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 18:43	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 18:43	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 18:43	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 18:43	79-01-6	
Vinyl chloride	128 ug/L		2.0	1		02/10/10 18:43	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 18:43	1330-20-7	
Dibromofluoromethane (S)	107 %		80-123	1		02/10/10 18:43	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		02/10/10 18:43	460-00-4	
Toluene-d8 (S)	105 %		80-116	1		02/10/10 18:43	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND mg/L		0.10	1		02/05/10 13:11		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	50.8 mg/L		12.5	2.5		02/15/10 11:57	14808-79-8	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: Dup 1		Lab ID: 5034474013	Collected: 02/04/10 08:00	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)	Analytical Method: SM 2340B							
Total Hardness	755	mg/L	1.0	1		02/09/10 17:30		
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/10/10 19:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 19:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 19:15	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 19:15	75-35-4	
cis-1,2-Dichloroethene	879	ug/L	50.0	10		02/10/10 19:47	156-59-2	
trans-1,2-Dichloroethene	11.8	ug/L	5.0	1		02/10/10 19:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 19:15	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 19:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 19:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 19:15	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 19:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 19:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 19:15	79-01-6	
Vinyl chloride	3100	ug/L	200	100		02/11/10 13:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 19:15	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		02/10/10 19:15	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		02/10/10 19:15	460-00-4	
Toluene-d8 (S)	104	%	80-116	1		02/10/10 19:15	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: Dup 2		Lab ID: 5034474014	Collected: 02/04/10 08:00	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		02/10/10 20:19	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/10 20:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/10/10 20:19	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/10 20:19	75-35-4	
cis-1,2-Dichloroethene	455	ug/L	50.0	10		02/10/10 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/10 20:19	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/10/10 20:19	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/10/10 20:19	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/10/10 20:19	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/10 20:19	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/10 20:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/10 20:19	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/10/10 20:19	79-01-6	
Vinyl chloride	2240	ug/L	20.0	10		02/10/10 20:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/10/10 20:19	1330-20-7	
Dibromofluoromethane (S)	108	%	80-123	1		02/10/10 20:19	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		02/10/10 20:19	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		02/10/10 20:19	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034474

Sample: Trip Blank		Lab ID: 5034474015	Collected: 02/04/10 08:00	Received: 02/05/10 09:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND ug/L		5.0	1		02/10/10 21:23	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/10/10 21:23	56-23-5	
Chloroform	ND ug/L		5.0	1		02/10/10 21:23	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:23	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:23	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/10/10 21:23	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/10/10 21:23	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/10/10 21:23	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/10/10 21:23	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/10/10 21:23	127-18-4	
Toluene	ND ug/L		5.0	1		02/10/10 21:23	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/10/10 21:23	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/10/10 21:23	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/10/10 21:23	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/10/10 21:23	1330-20-7	
Dibromofluoromethane (S)	106 %		80-123	1		02/10/10 21:23	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		02/10/10 21:23	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		02/10/10 21:23	2037-26-5	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034474

QC Batch: MSV/21609 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034474003, 5034474004, 5034474010

METHOD BLANK: 396018 Matrix: Water

Associated Lab Samples: 5034474003, 5034474004, 5034474010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 01:56	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Benzene	ug/L	ND	5.0	02/10/10 01:56	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 01:56	
Chloroform	ug/L	ND	5.0	02/10/10 01:56	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Ethylbenzene	ug/L	ND	5.0	02/10/10 01:56	
Methylene chloride	ug/L	ND	5.0	02/10/10 01:56	
Naphthalene	ug/L	ND	5.0	02/10/10 01:56	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 01:56	
Toluene	ug/L	ND	5.0	02/10/10 01:56	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Trichloroethene	ug/L	ND	5.0	02/10/10 01:56	
Vinyl chloride	ug/L	ND	2.0	02/10/10 01:56	
Xylene (Total)	ug/L	ND	10.0	02/10/10 01:56	
4-Bromofluorobenzene (S)	%	111	70-126	02/10/10 01:56	S3
Dibromofluoromethane (S)	%	129	80-123	02/10/10 01:56	
Toluene-d8 (S)	%	100	80-116	02/10/10 01:56	

LABORATORY CONTROL SAMPLE: 396019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.4	119	69-136	
1,1-Dichloroethene	ug/L	50	65.6	131	63-128	L3
Benzene	ug/L	50	53.3	107	78-127	
Carbon tetrachloride	ug/L	50	53.4	107	62-143	
Chloroform	ug/L	50	56.9	114	74-131	
cis-1,2-Dichloroethene	ug/L	50	56.2	112	74-128	
Ethylbenzene	ug/L	50	50.1	100	81-126	
Methylene chloride	ug/L	50	53.5	107	32-164	
Naphthalene	ug/L	50	57.1	114	61-135	
Tetrachloroethene	ug/L	50	48.5	97	60-119	
Toluene	ug/L	50	48.2	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	60.6	121	71-126	
Trichloroethene	ug/L	50	53.2	106	74-130	
Vinyl chloride	ug/L	50	54.4	109	55-141	
Xylene (Total)	ug/L	150	151	100	76-132	
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			108	80-123	
Toluene-d8 (S)	%			99	80-116	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034474

QC Batch: MSV/21634 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034474002, 5034474005, 5034474006, 5034474007, 5034474008, 5034474009

METHOD BLANK: 396230 Matrix: Water
Associated Lab Samples: 5034474002, 5034474005, 5034474006, 5034474007, 5034474008, 5034474009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 14:43	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Benzene	ug/L	ND	5.0	02/10/10 14:43	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 14:43	
Chloroform	ug/L	ND	5.0	02/10/10 14:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Ethylbenzene	ug/L	ND	5.0	02/10/10 14:43	
Methylene chloride	ug/L	ND	5.0	02/10/10 14:43	
Naphthalene	ug/L	ND	5.0	02/10/10 14:43	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 14:43	
Toluene	ug/L	ND	5.0	02/10/10 14:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Trichloroethene	ug/L	ND	5.0	02/10/10 14:43	
Vinyl chloride	ug/L	ND	2.0	02/10/10 14:43	
Xylene (Total)	ug/L	ND	10.0	02/10/10 14:43	
4-Bromofluorobenzene (S)	%	105	70-126	02/10/10 14:43	
Dibromofluoromethane (S)	%	111	80-123	02/10/10 14:43	
Toluene-d8 (S)	%	106	80-116	02/10/10 14:43	

LABORATORY CONTROL SAMPLE: 396231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	69-136	
1,1-Dichloroethene	ug/L	50	60.3	121	63-128	
Benzene	ug/L	50	48.6	97	78-127	
Carbon tetrachloride	ug/L	50	48.9	98	62-143	
Chloroform	ug/L	50	52.6	105	74-131	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	74-128	
Ethylbenzene	ug/L	50	52.6	105	81-126	
Methylene chloride	ug/L	50	50.5	101	32-164	
Naphthalene	ug/L	50	51.5	103	61-135	
Tetrachloroethene	ug/L	50	50.8	102	60-119	
Toluene	ug/L	50	50.0	100	75-129	
trans-1,2-Dichloroethene	ug/L	50	56.4	113	71-126	
Trichloroethene	ug/L	50	49.8	100	74-130	
Vinyl chloride	ug/L	50	50.5	101	55-141	
Xylene (Total)	ug/L	150	155	103	76-132	
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			106	80-123	
Toluene-d8 (S)	%			110	80-116	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034474

MATRIX SPIKE SAMPLE:		396256						
Parameter	Units	5034555002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,1,1-Trichloroethane	ug/L	ND	50	41.3	83	64-143		
1,1-Dichloroethene	ug/L	ND	50	48.9	98	55-140		
Benzene	ug/L	ND	50	37.0	74	63-141		
Carbon tetrachloride	ug/L	ND	50	38.1	76	54-145		
Chloroform	ug/L	ND	50	39.9	80	67-134		
cis-1,2-Dichloroethene	ug/L	ND	50	39.5	79	65-132		
Ethylbenzene	ug/L	ND	50	38.8	78	44-151		
Methylene chloride	ug/L	ND	50	37.1	74	46-154		
Naphthalene	ug/L	ND	50	34.4	69	44-138		
Tetrachloroethene	ug/L	ND	50	37.4	75	25-146		
Toluene	ug/L	ND	50	36.8	74	59-142		
trans-1,2-Dichloroethene	ug/L	ND	50	42.6	85	60-137		
Trichloroethene	ug/L	ND	50	39.1	78	61-137		
Vinyl chloride	ug/L	ND	50	40.0	80	51-144		
Xylene (Total)	ug/L	ND	150	117	78	44-152		
4-Bromofluorobenzene (S)	%				102	70-126		
Dibromofluoromethane (S)	%				104	80-123		
Toluene-d8 (S)	%				105	80-116		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		396257			396258							
Parameter	Units	5034474006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	61.1	61.1	122	122	64-143	.008	20	
1,1-Dichloroethene	ug/L	ND	50	50	72.1	82.8	144	166	55-140	14	20	M0
Benzene	ug/L	ND	50	50	51.2	53.1	102	106	63-141	4	20	
Carbon tetrachloride	ug/L	ND	50	50	55.7	56.9	111	114	54-145	2	20	
Chloroform	ug/L	ND	50	50	57.5	58.0	115	116	67-134	.9	20	
cis-1,2-Dichloroethene	ug/L	6.8	50	50	67.2	67.6	121	122	65-132	.5	20	
Ethylbenzene	ug/L	ND	50	50	47.6	49.3	95	99	44-151	4	20	
Methylene chloride	ug/L	ND	50	50	52.6	55.7	105	111	46-154	6	20	
Naphthalene	ug/L	ND	50	50	46.9	48.0	94	96	44-138	2	20	
Tetrachloroethene	ug/L	ND	50	50	46.8	45.5	94	91	25-146	3	20	
Toluene	ug/L	ND	50	50	45.6	45.4	91	91	59-142	.5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	62.7	63.6	125	127	60-137	1	20	
Trichloroethene	ug/L	ND	50	50	53.6	52.0	107	104	61-137	3	20	
Vinyl chloride	ug/L	ND	50	50	58.0	61.6	113	120	51-144	6	20	
Xylene (Total)	ug/L	ND	150	150	146	149	97	99	44-152	2	20	
4-Bromofluorobenzene (S)	%						102	101	70-126		20	
Dibromofluoromethane (S)	%						116	116	80-123		20	
Toluene-d8 (S)	%						101	98	80-116		20	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034474

QC Batch: MSV/21638 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5034474011, 5034474012, 5034474013, 5034474014, 5034474015

METHOD BLANK: 396244 Matrix: Water
Associated Lab Samples: 5034474011, 5034474012, 5034474013, 5034474014, 5034474015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/10 14:57	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Benzene	ug/L	ND	5.0	02/10/10 14:57	
Carbon tetrachloride	ug/L	ND	5.0	02/10/10 14:57	
Chloroform	ug/L	ND	5.0	02/10/10 14:57	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Ethylbenzene	ug/L	ND	5.0	02/10/10 14:57	
Methylene chloride	ug/L	ND	5.0	02/10/10 14:57	
Naphthalene	ug/L	ND	5.0	02/10/10 14:57	
Tetrachloroethene	ug/L	ND	5.0	02/10/10 14:57	
Toluene	ug/L	ND	5.0	02/10/10 14:57	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Trichloroethene	ug/L	ND	5.0	02/10/10 14:57	
Vinyl chloride	ug/L	ND	2.0	02/10/10 14:57	
Xylene (Total)	ug/L	ND	10.0	02/10/10 14:57	
4-Bromofluorobenzene (S)	%	97	70-126	02/10/10 14:57	
Dibromofluoromethane (S)	%	100	80-123	02/10/10 14:57	
Toluene-d8 (S)	%	103	80-116	02/10/10 14:57	

LABORATORY CONTROL SAMPLE: 396245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.7	95	69-136	
1,1-Dichloroethene	ug/L	50	56.3	113	63-128	
Benzene	ug/L	50	47.1	94	78-127	
Carbon tetrachloride	ug/L	50	48.6	97	62-143	
Chloroform	ug/L	50	50.5	101	74-131	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	74-128	
Ethylbenzene	ug/L	50	50.1	100	81-126	
Methylene chloride	ug/L	50	48.6	97	32-164	
Naphthalene	ug/L	50	46.6	93	61-135	
Tetrachloroethene	ug/L	50	46.0	92	60-119	
Toluene	ug/L	50	47.2	94	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	71-126	
Trichloroethene	ug/L	50	48.8	98	74-130	
Vinyl chloride	ug/L	50	47.5	95	55-141	
Xylene (Total)	ug/L	150	154	102	76-132	
4-Bromofluorobenzene (S)	%			105	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			104	80-116	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034474

QC Batch: WETA/4642 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5034474004, 5034474005, 5034474007, 5034474010, 5034474012

METHOD BLANK: 394946 Matrix: Water
Associated Lab Samples: 5034474004, 5034474005, 5034474007, 5034474010, 5034474012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/05/10 12:48	

LABORATORY CONTROL SAMPLE: 394947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 394948 394949

Parameter	Units	5034474005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.8	1.8	89	89	90-110	.2	20	M3

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034474

QC Batch: WETA/4653

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 5034474009

METHOD BLANK: 395810

Matrix: Water

Associated Lab Samples: 5034474009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	02/09/10 18:37	

LABORATORY CONTROL SAMPLE: 395811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	4	3.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 395812

395813

Parameter	Units	5034490003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	2.0	4	4	6.0	6.0	100	99	90-110	.6	20	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034474

QC Batch: WETA/4663 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5034474004, 5034474005, 5034474007, 5034474009, 5034474010, 5034474012

METHOD BLANK: 397046 Matrix: Water
Associated Lab Samples: 5034474004, 5034474005, 5034474007, 5034474009, 5034474010, 5034474012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/15/10 11:57	

LABORATORY CONTROL SAMPLE: 397047

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 397048 397049

Parameter	Units	5034456001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	82.9	100	100	171	174	89	91	75-125	1	20	

QUALIFIERS

Project: Michigan Plaza

Pace Project No.: 5034474

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.

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.

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

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

ANALYTE QUALIFIERS

1d	Benzene evaluated to 5ug/L estimated RL. aa 2/11/10
2d	PCE evaluated to 5ug/L estimated RL. aa 2/11/10
3d	TCE evaluated to 5ug/L estimated RL. aa 2/11/10
D4	Sample was diluted due to the presence of high levels of target analytes.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
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.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

CHAIN-OF-CUSTODY / Analytical Request Document

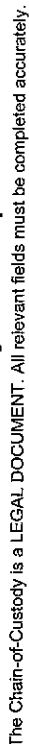
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information: Company: <u>Paradise Associates</u> Address: <u>110 S. Downey Ave</u> City: <u>Indpls, IN 46204</u> Phone: <u>317 430-9000</u> Fax: <u>317 430-9005</u> Requested Due Date/TAT: <u>5/1</u>		Section B Required Project Information: Report To: <u>Leona Lother</u> Copy To: <u>Mark Tebbe</u> Purchase Order No.: <u>Michigan Plaza</u> Project Name: <u>Michigan Plaza</u> Project Number: <u>M01846</u>		Section C Invoice Information: Attention: <u>Mark Tebbe</u> Company Name: <u>Murdell</u> Address: <u>IN</u> Pace Quote Reference: <u>IN</u> Pace Project Manager: <u>IN</u> Pace Profile #: <u>IN</u>	
Section D Required Client Information: Matrix Codes DW Drinking Water WT Waste Water WW Wastewater P Product SL Soil/Solid OL Oil WP Wipe AR Air TS Tissue OT Other SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Regulatory Agency ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER Site Location STATE: <u>IN</u>			

ITEM #	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
		COMPOSITE START	COMPOSITE END/GRAB			DATE	TIME			DATE	TIME				
1	MMW-C-15			G	WT	2/4/10	3:00P								5034474
2	MMW-P-01			G	WT	2/4/10	11:14A								001
3	MMW-P-02			G	WT	2/4/10	9:46A								002
4	MMW-P-03S			G	WT	2/4/10	10:18A								003
5	MMW-P-03D			G	WT	2/4/10	10:01A								004
6	MMW-P-05 (MS/MSD2)			G	WT	2/4/10	10:56A								005
7	MMW-P-06			G	WT	2/4/10	10:39A								006
8	MMW-P-07			G	WT	2/4/10	11:44A								007
9	MMW-P-08			G	WT	2/4/10	12:38P								008
10	MMW-P-10S			G	WT	2/4/10	1:11P								009
11	MMW-P-10D			G	WT	2/4/10	12:48P								010
12	MMW-168D			G	WT	2/4/10	2:38P								011

ADDITIONAL COMMENTS: *Short list VOC's Short hold on Nitrate/ sulfate		RELINQUISHED BY / AFFILIATION AD		DATE 2/15/10		TIME 9:10A		ACCEPTED BY / AFFILIATION Zelen		DATE 2/15/10		TIME 9:10		SAMPLE CONDITIONS 25C Y N Y	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Andy Danner</u> SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YY): <u>2/14/10</u>															
Temp in °C Received on Custody Cooler Samples Intact (Y/N)															



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

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Mundell & Associates	Report To:	Lever Lothe	Attention:	McN Tebbe
Address:	110 S. Downey	Copy To:		Company Name:	Mundell
	Indian, IN 46629			Address:	
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone:	317-636-9060	Project Name:	Michigan Plaza	Pace Project Manager:	
Fax:	317-636-9065	Project Number:	MA046	Pace Profile #:	
Requested Due Date/TAT:	5AT				

Page: 2 of 2
 1339814

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

Site Location
 STATE: IN

[illegible]

ORIGINAL

SAMPLER NAME AND SIGNATURE: Andy Damages

SIGNATURE OF SAMPLER: 	DATE SIGNED
	(MM/DD/YY): 2/4/16

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

Client Name: Mundell & Assoc. Project # 5034474

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

Tracking #: _____

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other foam

Thermometer Used 123456

Type of Ice: Wet Blue None

☒ Samples on ice, cooling process has begun

Cooler Temperature 2.9°C

Biological Tissue is Frozen: Yes ☐ No ☒

Date and Initials of person examining contents: 02/05/10 BO

Temp should be above freezing to 6°C

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6. Nitrate <u>BO</u>
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☐ Yes ☒ No ☐ N/A	12. On chain mmw-P-07 supposedly has 2 plastics but mmw-P-08 actually has the 2 plastics. <u>BO</u>
-Includes date/time/ID/Analysis Matrix: <u>Water</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Person Contacted: Andy Dammeyer Date/Time: 2/5/10 via voice mail

Field Data Required? Y ☐ N ☒

Comments/ Resolution:

mmw-P-07 Should only get VOC
mmw-P-08 Should get all analyses

Project Manager Review: Y Sawyer

Date: 2/5/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Container Count

CLIENT: Mundell & Assoc.

COC PAGE 1 of 2
COC ID# 1339815

Project # 5034474



Sample Line

Item	DG9H	AG1U	WG1U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG1U	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		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	BP3A	250mL NaOH, Asc Acid plastic	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 glass amber	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: Mandell & Assoc.

COC PAGE 2 of 2
COC ID# 133

Project # 5034474



Sample Line Item	DG9H	AG1U	WG9H	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 vial	AF	Air Filter	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
WG9H	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		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	BP3A	250mL NaOH, Asc Acid plastic	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

February 17, 2010

Ms. Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

RE: Project: Michigan Plaza
Pace Project No.: 5034667

Dear Ms. Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2010. The results relate only to the samples included in this report. 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,



Tina Sayer

tina.sayer@pacelabs.com
Project Manager

7726 Moller Road Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

cc: Jelling Lai, Mundell & Associates

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza

Pace Project No.: 5034667

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5034667001	MMW-P-04	Water	02/12/10 13:40	02/15/10 11:15
5034667002	Trip Blank	Water	02/12/10 08:00	02/15/10 11:15

REPORT OF LABORATORY ANALYSIS

Page 2 of 8

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza

Pace Project No.: 5034667

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5034667001	MMW-P-04	EPA 8260	RSR	18
5034667002	Trip Blank	EPA 8260	RSR	18

REPORT OF LABORATORY ANALYSIS

Page 3 of 8

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034667

Sample: MMW-P-04		Lab ID: 5034667001	Collected: 02/12/10 13:40	Received: 02/15/10 11:15	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		02/16/10 16:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/10 16:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/10 16:15	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/10 16:15	75-35-4	
cis-1,2-Dichloroethene	144	ug/L	5.0	1		02/16/10 16:15	156-59-2	
trans-1,2-Dichloroethene	8.3	ug/L	5.0	1		02/16/10 16:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/10 16:15	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/16/10 16:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/10 16:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/10 16:15	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/10 16:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/10 16:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/10 16:15	79-01-6	
Vinyl chloride	224	ug/L	2.0	1		02/16/10 16:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/10 16:15	1330-20-7	
Dibromofluoromethane (S)	99 %		80-123	1		02/16/10 16:15	1868-53-7	
4-Bromofluorobenzene (S)	97 %		70-126	1		02/16/10 16:15	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/16/10 16:15	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5034667

Sample: Trip Blank		Lab ID: 5034667002	Collected: 02/12/10 08:00	Received: 02/15/10 11:15	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		02/16/10 17:28	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/16/10 17:28	56-23-5	
Chloroform	ND ug/L		5.0	1		02/16/10 17:28	67-66-3	
1,1-Dichloroethene	ND ug/L		5.0	1		02/16/10 17:28	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/16/10 17:28	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/16/10 17:28	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/16/10 17:28	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/16/10 17:28	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/16/10 17:28	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/16/10 17:28	127-18-4	
Toluene	ND ug/L		5.0	1		02/16/10 17:28	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/16/10 17:28	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/16/10 17:28	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/16/10 17:28	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/16/10 17:28	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		02/16/10 17:28	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		02/16/10 17:28	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		02/16/10 17:28	2037-26-5	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034667

QC Batch: MSV/21723

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 5034667001, 5034667002

METHOD BLANK: 397550

Matrix: Water

Associated Lab Samples: 5034667001, 5034667002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/16/10 15:02	
1,1-Dichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Benzene	ug/L	ND	5.0	02/16/10 15:02	
Carbon tetrachloride	ug/L	ND	5.0	02/16/10 15:02	
Chloroform	ug/L	ND	5.0	02/16/10 15:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Ethylbenzene	ug/L	ND	5.0	02/16/10 15:02	
Methylene chloride	ug/L	ND	5.0	02/16/10 15:02	
Naphthalene	ug/L	ND	5.0	02/16/10 15:02	
Tetrachloroethene	ug/L	ND	5.0	02/16/10 15:02	
Toluene	ug/L	ND	5.0	02/16/10 15:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Trichloroethene	ug/L	ND	5.0	02/16/10 15:02	
Vinyl chloride	ug/L	ND	2.0	02/16/10 15:02	
Xylene (Total)	ug/L	ND	10.0	02/16/10 15:02	
4-Bromofluorobenzene (S)	%	95	70-126	02/16/10 15:02	
Dibromofluoromethane (S)	%	100	80-123	02/16/10 15:02	
Toluene-d8 (S)	%	101	80-116	02/16/10 15:02	

LABORATORY CONTROL SAMPLE: 397551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.8	86	69-136	
1,1-Dichloroethene	ug/L	50	46.7	93	63-128	
Benzene	ug/L	50	44.6	89	78-127	
Carbon tetrachloride	ug/L	50	40.0	80	62-143	
Chloroform	ug/L	50	45.0	90	74-131	
cis-1,2-Dichloroethene	ug/L	50	43.7	87	74-128	
Ethylbenzene	ug/L	50	45.7	91	81-126	
Methylene chloride	ug/L	50	40.6	81	32-164	
Naphthalene	ug/L	50	43.1	86	61-135	
Tetrachloroethene	ug/L	50	41.4	83	60-119	
Toluene	ug/L	50	44.5	89	75-129	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	71-126	
Trichloroethene	ug/L	50	45.3	91	74-130	
Vinyl chloride	ug/L	50	56.4	113	55-141	
Xylene (Total)	ug/L	150	129	86	76-132	
4-Bromofluorobenzene (S)	%			103	70-126	
Dibromofluoromethane (S)	%			97	80-123	
Toluene-d8 (S)	%			102	80-116	

Date: 02/17/2010 04:10 PM

REPORT OF LABORATORY ANALYSIS

Page 6 of 8

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5034667

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 397552 397553											
Parameter	Units	5034683006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	41.7	51.8	83	104	64-143	22	20
1,1-Dichloroethene	ug/L	ND	50	50	46.8	57.2	94	114	55-140	20	20
Benzene	ug/L	ND	50	50	41.9	51.6	84	103	63-141	21	20
Carbon tetrachloride	ug/L	ND	50	50	37.7	46.2	75	92	54-145	20	20
Chloroform	ug/L	ND	50	50	43.3	52.9	87	106	67-134	20	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	42.9	52.0	86	104	65-132	19	20
Ethylbenzene	ug/L	ND	50	50	35.1	42.1	70	84	44-151	18	20
Methylene chloride	ug/L	ND	50	50	40.2	49.4	80	99	46-154	21	20
Naphthalene	ug/L	ND	50	50	41.3	48.4	83	97	44-138	16	20
Tetrachloroethene	ug/L	ND	50	50	34.0	40.6	68	81	25-146	18	20
Toluene	ug/L	ND	50	50	38.7	46.4	77	92	59-142	18	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.2	55.1	90	110	60-137	20	20
Trichloroethene	ug/L	ND	50	50	40.7	48.9	81	98	61-137	18	20
Vinyl chloride	ug/L	ND	50	50	58.4	70.1	117	140	51-144	18	20
Xylene (Total)	ug/L	ND	150	150	101	121	67	80	44-152	18	20
4-Bromofluorobenzene (S)	%						101	102	70-126		20
Dibromofluoromethane (S)	%						99	100	80-123		20 1d
Toluene-d8 (S)	%						100	99	80-116		20

QUALIFIERS

Project: Michigan Plaza

Pace Project No.: 5034667

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.

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.

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

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

ANALYTE QUALIFIERS

1d RPD value was outside control limits for several compounds. Refer to batch QC for control. RSR 02/17/10

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Mundell & Associates	Report To:	Leana Lothe	Attention:	Merle Tebbe
Address:	110 S. Downer Ave Indpls, IN 46219	Copy To:	S. Low	Company Name:	Mundell
Email To:		Purchase Order No.:		Address:	
Phone:	317-630-9900	Project Name:	Michigan Plaza	Pace Quote Reference:	
Fax:	317-630-9905	Project Number:	M01816	Pace Project Manager:	
Requested Due Date/TAT:	5/11			Pace Profile #:	

Page: 1 of 1

1320263

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RORA ☐ OTHER

Site Location
STATE: IN

[illegible]

ORIGINAL Tim: 11:56, Jan Wt 6.0225	SAMPLER NAME AND SIGNATURE 		Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

Sample Condition Upon Receipt



Client Name: Mundell & Assoc.

Project # 5034667

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

Tracking #: _____

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other _____

Thermometer Used 123456

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.3

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 2/15/10

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☐ No ☒ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☐ No ☒ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Water</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

J. Lauer

Date: 2/15/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Container Count



CLIENT: Mundell & Assoc.

COC PAGE 1 of 1

COC ID# 1320263

Project # 5034607

Sample Line

Item	DG9H	AG1U	WG9U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1	3												
2	3												
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WG9U	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	BP3A	250mL NaOH, Asc Acid plastic	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

APPENDIX B

Air Mitigation Systems: Pounds of Contaminants Removed

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)				(µg/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	0.0000	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	0.0000	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

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - 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	0.0000	0.0000	129.24	64.62	26.93	26.93
10/6/2006	0.0120	0.0050	0.0050	0.0050	0.0001	0.0000	0.0000	0.0000	64.62	26.93	26.93	26.93
10/13/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
10/20/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/17/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
12/27/2006	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
3/30/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
6/15/2007	0.4600	0.0050	0.0050	0.0050	0.0025	0.0000	0.0000	0.0000	2,477.10	26.93	26.93	26.93
10/16/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
12/14/2007	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
3/27/2008	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
9/12/2008	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/26/2008	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
3/24/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
6/15/2009	0.0050	NS	0.0050	0.0050	0.0000	NS	0.0000	0.0000	26.93	NS	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	0.0000	26.93	26.93	26.93	26.93
2/5/2010	0.0014	0.0050	0.0012	0.0050	0.0000	0.0000	0.0000	0.0000	7.54	26.93	6.46	26.93

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - 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/m³)			
9/21/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/6/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/13/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/20/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/17/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
12/27/2006	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
3/30/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
6/15/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
10/16/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
12/14/2007	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
3/27/2008	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
4/1/2008	NS	0.0150	NS	NS	NS	0.0000	NS	NS	NS	38.42	NS	NS
6/2/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
9/12/2008	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/26/2008	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
3/24/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
6/15/2009	0.0150	NS	0.0150	0.0150	0.0000	NS	0.0000	0.0000	38.42	NS	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	0.0000	38.42	38.42	38.42	38.42

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - 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/m³)			
9/21/2006	0.1400	0.0100	0.0100	0.0100	0.0006	0.0000	0.0000	0.0000	556.22	39.73	39.73	39.73
10/6/2006	0.0300	0.0100	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	119.19	39.73	39.73	39.73
10/13/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
10/20/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/17/2006	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
12/27/2006	0.0240	0.0100	0.0100	0.0100	0.0001	0.0000	0.0000	0.0000	95.35	39.73	39.73	39.73
3/30/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
6/15/2007	0.2100	0.0100	0.0100	0.0100	0.0008	0.0000	0.0000	0.0000	834.33	39.73	39.73	39.73
10/16/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
12/14/2007	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
3/27/2008	0.0340	NS	0.0100	0.0100	0.0001	NS	0.0000	0.0000	135.08	NS	39.73	39.73
4/1/2008	NS	0.0100	NS	NS	NS	0.0000	NS	NS	NS	39.73	NS	NS
6/2/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
9/12/2008	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/26/2008	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
3/24/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
6/15/2009	0.0100	NS	0.0100	0.0100	0.0000	NS	0.0000	0.0000	39.73	NS	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	0.0000	39.73	39.73	39.73	39.73

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

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)			(µg/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	<i>0.0050</i>	0.0004	0.0006	0.0000	394.17	570.86	33.98
8/21/2009	0.0630	0.0710	<i>0.0050</i>	0.0004	0.0005	0.0000	428.15	482.52	33.98
11/5/2009	0.1300	0.1100	<i>0.0050</i>	0.0009	0.0007	0.0000	883.48	747.56	33.98
2/5/2010	0.0220	0.0800	<i>0.0022</i>	0.0001	0.0005	0.0000	149.51	543.68	14.95

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - 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)			(µg/m ³)		
3/27/2008	0.0050	0.0050	NS	0.0000	0.0000	NS	26.93	26.93	NS
3/28/2008	0.0050	0.0050	NS	0.0000	0.0000	NS	26.93	26.93	NS
4/7/2008	NS	NS	0.0050	NS	NS	0.0000	NS	NS	26.93
4/8/2008	NS	NS	0.0050	NS	NS	0.0000	NS	NS	26.93
4/24/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
5/1/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
6/2/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
7/10/2008	0.0050	NS	0.0050	0.0000	NS	0.0000	26.93	NS	26.93
8/20/2008	NS	0.0050	NS	NS	0.0000	NS	NS	26.93	NS
9/12/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
11/26/2008	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
3/24/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
6/15/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
8/21/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
11/5/2009	0.0050	0.0050	0.0050	0.0000	0.0000	0.0000	26.93	26.93	26.93
2/5/2010	0.0016	0.0011	0.0050	0.0000	0.0000	0.0000	8.62	5.92	26.93

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results Michigan Meadows Apartments Indianapolis, Indiana MUNDELL Project No.: M01046									
Sample Date	Vinyl Chloride								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			(µg/m ³)		
3/27/2008	0.0150	0.0150	NS	0.0000	0.0000	NS	38.42	38.42	NS
3/28/2008	0.0150	0.0150	NS	0.0000	0.0000	NS	38.42	38.42	NS
4/7/2008	NS	NS	0.0150	NS	NS	0.0000	NS	NS	38.42
4/8/2008	NS	NS	0.0150	NS	NS	0.0000	NS	NS	38.42
4/24/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
5/1/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
6/2/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
7/10/2008	0.0150	NS	0.0150	0.0000	NS	0.0000	38.42	NS	38.42
8/20/2008	NS	0.0150	NS	NS	0.0000	NS	NS	38.42	NS
9/12/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
11/26/2008	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
3/24/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
6/15/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
8/21/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
11/5/2009	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42
2/5/2010	0.0150	0.0150	0.0150	0.0000	0.0000	0.0000	38.42	38.42	38.42

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Air Mitigation - Historical Air Analytical Results Michigan Meadows 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)			(µg/m³)		
3/27/2008	0.0100	0.0100	NS	0.0000	0.0000	NS	39.73	39.73	NS
3/28/2008	0.0100	0.0100	NS	0.0000	0.0000	NS	39.73	39.73	NS
4/7/2008	NS	NS	0.0100	NS	NS	0.0000	NS	NS	39.73
4/8/2008	NS	NS	0.0100	NS	NS	0.0000	NS	NS	39.73
4/24/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
5/1/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
6/2/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
7/10/2008	0.0100	NS	0.0100	0.0000	NS	0.0000	39.73	NS	39.73
8/20/2008	NS	0.0100	NS	NS	0.0000	NS	NS	39.73	NS
9/12/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
11/26/2008	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
3/24/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
6/15/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
8/21/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
11/5/2009	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73
2/5/2010	0.0100	0.0100	0.0100	0.0000	0.0000	0.0000	39.73	39.73	39.73

NS = Not sampled

Italic = Reported values are below laboratory detection limits.

Concentrations of PCE, TCE, and cis-1,2-Dichloroethylene assumed at 1/2 reported detection limit. Concentrations of vinyl chloride assumed at 0.15ppmv, the mean detected concentration below reporting limits.

Lab Data for Air Mitigation System B-1
First Quarter 2010
2/5/2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-1 (Lab Data)															B-1 (PID Readings)							
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	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)
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	9/21/2006	0.5	73	2,190	4.9	10,439	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	9/28/2006	168	73	735,840	1.9	4,841	0.22	0.22
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	10/6/2006	192	73	840,960	1.0	3,162	0.17	0.39
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	10/13/2006	168	73	735,840	0.6	2,322	0.11	0.50
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	10/20/2006	168	73	735,840	0.3	1,902	0.09	0.58
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	11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.86
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	12/27/2006	960	73	4,204,800	0.0	1,296	0.34	1.20
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	6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.85
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	10/16/2007	2,952	73	12,929,760	0.1	1,483	1.20	4.04
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	12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.62
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	3/27/2008	2,496	73	10,932,480	1.7	4,468	3.05	7.66
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	6/2/2008	1,608	73	7,043,040	2.2	5,401	2.37	10.04
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	9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.28
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	11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.01
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	3/24/2009	2,832	73	12,404,160	0.2	1,669	1.29	13.30
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	6/15/2009	1,992	73	8,724,960	0.2	1,669	0.91	14.21
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	8/21/2009	1,608	73	7,043,040	0.2	1,669	0.73	14.94
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	11/5/2009	1,824	73	7,989,120	0.2	1,669	0.83	15.77
2/5/2010	2,208	73	9,671,040	1,087	0.66	7.54	0.00	38	0.02	40	0.02	0.71	24.42	26.99	2/5/2010	2,208	73	9671040	2.3	5,588	3.37	19.14
TOTALS:	29,593		129,615,150		24.42		1.45		0.31		0.81	26.99			TOTALS:	29,593		129,615,150			19.14	

Lab Data for Air Mitigation System B-2
First Quarter 2010
2/5/2010
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	4,281	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	37	4,901,760	251	0.08	27	0.01	38	0.01	40	0.01	0.11	7.30	7.68
TOTALS:	22,801		57,055,350		7.30		0.10		0.14		0.14	7.68		

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)
9/21/2006	0.5	37	1,110	2.0	5,028	0.00	0.00
9/28/2006	168	37	372,960	2.0	5,028	0.12	0.12
10/6/2006	192	37	426,240	1.1	3,255	0.09	0.20
10/13/2006	168	37	372,960	0.6	2,369	0.06	0.26
10/20/2006	168	37	372,960	0.3	1,926	0.04	0.30
11/17/2006	672	37	1,491,840	0.1	1,483	0.14	0.44
12/27/2006	960	37	2,131,200	0.1	1,483	0.20	0.64
6/15/2007	4,080	41	10,036,800	0.1	1,483	0.93	1.57
10/16/2007	2,952	48	8,501,760	0.1	1,483	0.79	2.35
12/14/2007	1,416	53	4,502,880	0.1	1,483	0.42	2.77
6/2/2008	4,104	46.5	11,450,160	1.5	4,095	2.92	5.69
9/12/2008	2,448	37	5,434,560	0.5	2,229	0.76	6.45
11/5/2009	1,440	37	3,196,800	0.1	1,483	0.30	6.75
2/5/2010	2,208	37	4,901,760	0.6	2,416	0.74	7.48
TOTALS:	20,977		53,193,990			7.48	

Lab Data for Air Mitigation System B-3
First Quarter 2010
2/5/2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-3 (Lab Data)															B-3 (PID Readings)							
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	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)
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	9/21/2006	0.5	132	3,960	1.8	4,655	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	9/28/2006	168	132	1,330,560	2.2	5,401	0.45	0.45
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	10/6/2006	192	132	1,520,640	2.1	5,215	0.49	0.94
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	10/13/2006	168	132	1,330,560	2.1	5,121	0.43	1.37
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	10/20/2006	168	132	1,330,560	2.0	5,075	0.42	1.79
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	11/17/2006	672	132	5,322,240	2.0	5,028	1.67	3.46
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	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	4.16
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	6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	7.15
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	10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	9.31
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	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	10.35
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	3/27/2008	2,496	132	19,768,320	1.3	3,722	4.59	14.94
6/2/2008	1,608	132	12,735,360	3,330	2.65	27	0.02	38	0.03	40	0.03	2.73	24.31	25.08	6/2/2008	1,608	132	12,735,360	1.2	3,535	2.81	17.75
9/12/2008	2,448	132	19,388,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	28.66	29.56	9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	20.44
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	30.84	31.83	11/26/2008	1,800	132	14,256,000	0.4	2,042	1.82	22.26
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	36.07	37.21	3/24/2009	2,832	132	22,429,440	0.6	2,416	3.38	25.64
6/15/2009	1,992	132	15,776,640	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	38.88	40.12	6/15/2009	1,992	132	15,776,640	0.6	2,416	2.38	28.02
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	41.41	42.74	8/31/2009	1,848	132	14,636,160	0.6	2,416	2.21	30.22
11/5/2009	1,824	132	14,446,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	43.93	45.35	11/5/2009	1,584	132	12,545,280	0.6	2,416	1.89	32.11
2/5/2010	2,208	132	17,487,360	951.44	1.04	6.46	0.01	38	0.04	40	0.04	1.13	44.96	46.48	2/5/2010	2,208	132	17,487,360	1.5	4,095	4.47	36.58
TOTALS:	29,593		234,372,600		44.96		0.37		0.56		0.58	46.48			TOTALS:	29,593		234,372,600			36.58	

Lab Data for Air Mitigation System B-4
First Quarter 2010
2/5/2010
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B-4 (Lab Data)															B-4 (PID Readings)							
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	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)
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	9/21/2006	0.5	132	3,960	0.2	1,669	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	9/28/2006	168	132	1,330,560	0.4	2,042	0.17	0.17
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	10/6/2006	192	132	1,520,640	0.3	1,763	0.17	0.34
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	10/13/2006	168	132	1,330,560	0.2	1,623	0.13	0.47
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	10/20/2006	168	132	1,330,560	0.1	1,553	0.13	0.60
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	11/17/2006	672	132	5,322,240	0.1	1,483	0.49	1.09
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	12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.80
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	6/15/2007	4,080	127.75	31,273,200	0.1	1,483	2.89	4.69
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	10/16/2007	2,952	128	22,671,360	0.1	1,483	2.10	6.78
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	12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.82
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	3/29/2008	2,544	128	19,537,920	1.8	4,655	5.67	13.50
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	6/2/2008	1,560	119	11,138,400	0.3	1,856	1.29	14.78
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	9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.25
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	11/26/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.57
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	3/24/2009	2,832	132	22,429,440	0.3	1,763	2.47	21.04
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	6/15/2009	1,992	132	15,776,640	0.3	1,856	1.83	22.87
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	8/31/2009	1,848	132	14,636,160	0.3	1,856	1.69	24.56
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	11/5/2009	1,584	132	12,545,280	0.3	1,856	1.45	26.01
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	2/5/2010	2,208	132	17,487,360	0.6	2,416	2.64	28.65
TOTALS:	29,593		230,608,440		8.75		0.39		0.55		0.57	10.26			TOTALS:	29,593		230,796,360			28.65	

Lab Data for Air Mitigation System B-5
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Michigan Plaza
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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	122	16,162,560	150	0.15	8.62	0.01	38	0.04	40	0.04	0.24	4.53	5.28
TOTALS:	16,321		116,864,220		4.53		0.18		0.28		0.29	5.28		

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	119	357,000	0.1	1,483	0.03	0.03
3/31/2008	48	118	339,840	0.2	1,669	0.04	0.07
5/1/2008	744	116	5,178,240	0.1	1,483	0.48	0.55
6/2/2008	768	114	5,253,120	0.2	1,669	0.55	1.09
9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.64
11/26/2008	1,800	113	12,204,000	0.1	1,483	1.13	3.77
3/24/2009	2,832	122	20,730,240	0.1	1,483	1.92	5.69
6/15/2009	1,992	122	14,581,440	0.1	1,483	1.35	7.04
8/31/2009	3,840	122	28,108,800	0.1	1,483	2.60	9.64
11/5/2009	1,584	122	11,594,880	0.1	1,483	1.07	10.71
2/5/2010	2,208	122	16,162,560	0.5	2,229	2.25	12.96
TOTALS:	18,314		131,254,440			12.96	

Lab Data for Air Mitigation System B-6
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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	118	15,632,640	544	0.53	5.92	0.01	38	0.04	40	0.04	0.61	6.36	7.10
TOTALS:	16,321		114,950,892		6.36		0.17		0.28		0.28	7.10		

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	110	330,000	1.7	4,468	0.09	0.09
3/31/2008	48	111	319,680	0.1	1,483	0.03	0.12
5/1/2008	744	118	5,267,520	0.3	1,856	0.61	0.73
6/2/2008	768	120	5,529,600	1.1	3,349	1.16	1.89
9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	3.43
11/26/2008	1,800	114	12,312,000	0.2	1,669	1.28	4.72
3/24/2009	2,832	118	20,050,560	0.3	1,856	2.32	7.04
6/15/2009	1,992	118	14,103,360	0.3	1,856	1.63	8.67
8/31/2009	1,848	118	13,083,840	0.3	1,856	1.51	10.19
11/5/2009	1,584	118	11,214,720	0.3	1,856	1.30	11.48
2/5/2010	2,208	118	15,632,640	0.9	2,975	2.90	14.38
TOTALS:	16,322		114,588,240			14.38	

Lab Data for Air Mitigation System B-7
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2/5/2010
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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	117	3,510	516	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/8/2008	24	117	168,480	319	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/24/2008	384	117	2,695,680	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	118	15,632,640	14.95	0.01	27	0.03	38	0.04	40	0.04	0.12	1.44	2.18
TOTALS:	16,057		112,612,950		1.44		0.19		0.27		0.28	2.18		

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)
5/1/2008	576	120	4,147,200	0.1	1,483	0.38	0.38
6/2/2008	768	117	5,391,360	0.3	1,856	0.62	1.01
9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.56
11/26/2008	1,800	112	12,096,000	0.2	1,669	1.26	3.82
3/24/2009	2,832	118	20,050,560	0.3	1,856	2.32	6.14
6/15/2009	1,992	118	14,103,360	0.3	1,856	1.63	7.77
8/31/2009	1,848	118	13,083,840	0.3	1,856	1.51	9.28
11/5/2009	1,584	118	11,214,720	0.3	1,856	1.30	10.58
2/5/2010	2,208	118	15,632,640	0.1	1,483	1.45	12.03
TOTALS:	16,056		112,464,000			12.03	

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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	3.13
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	6.16	50.53	6.39	54.46
9/12/2008	8.69	59.22	9.05	63.51
11/26/2008	4.38	63.59	4.62	68.13
3/24/2009	7.64	71.24	8.02	76.15
6/15/2009	4.53	75.77	4.80	80.94
8/21/2009	3.90	79.67	4.14	85.08
11/5/2009	3.90	83.57	4.17	89.25
2/5/2010	1.77	85.35	1.95	91.20

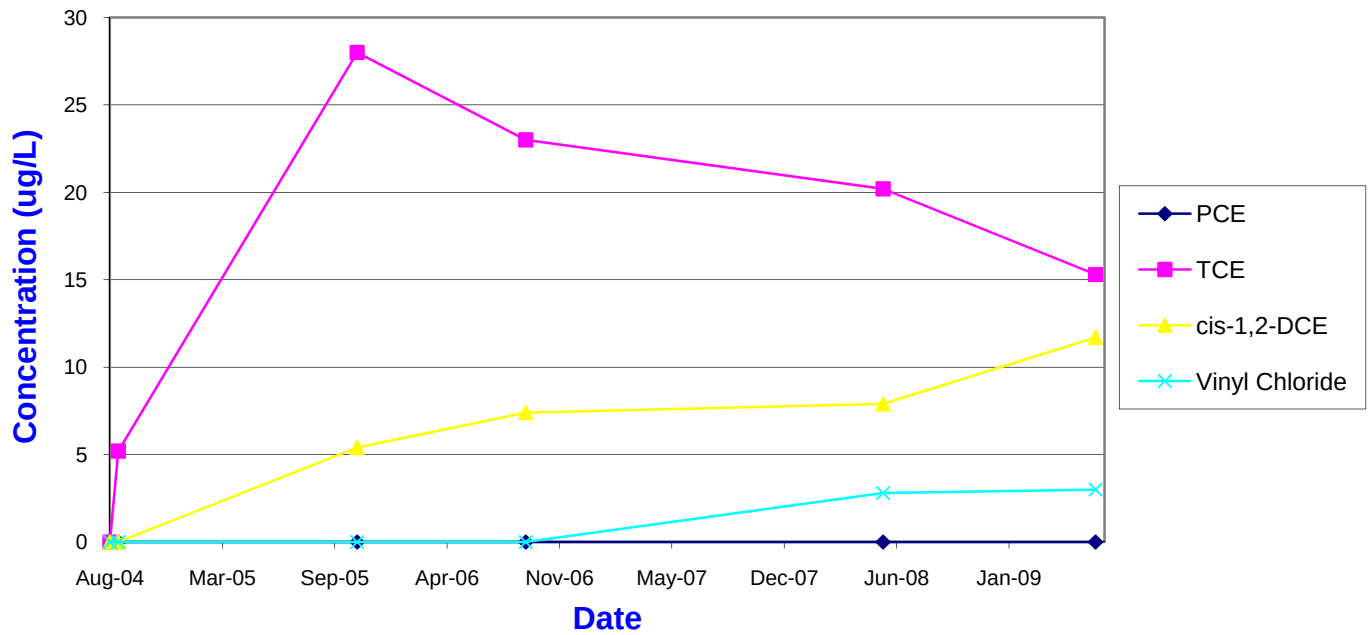
Michigan Apartments
First Quarter 2010
2/5/2010
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

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	1.92
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	1.40	11.67	1.75	13.71
2/5/2010	0.78	12.46	1.17	14.89

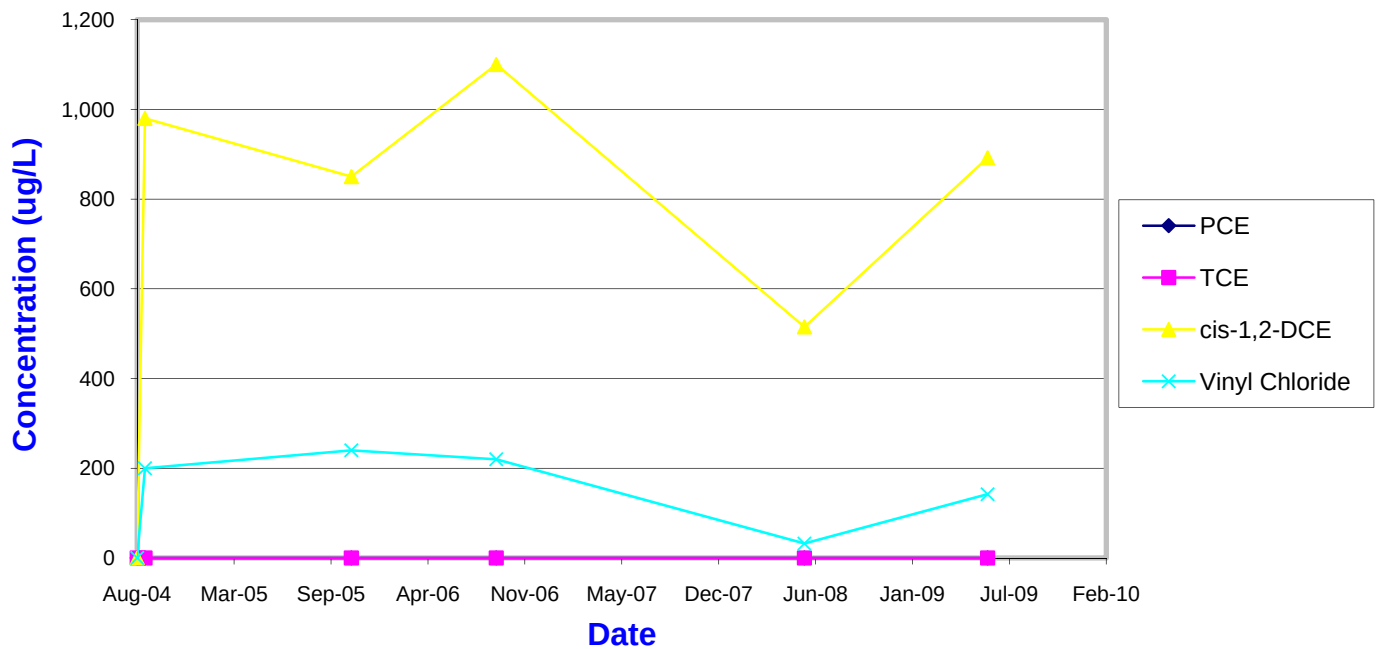
APPENDIX C

Indicator Compound Trends at the Northern Wells

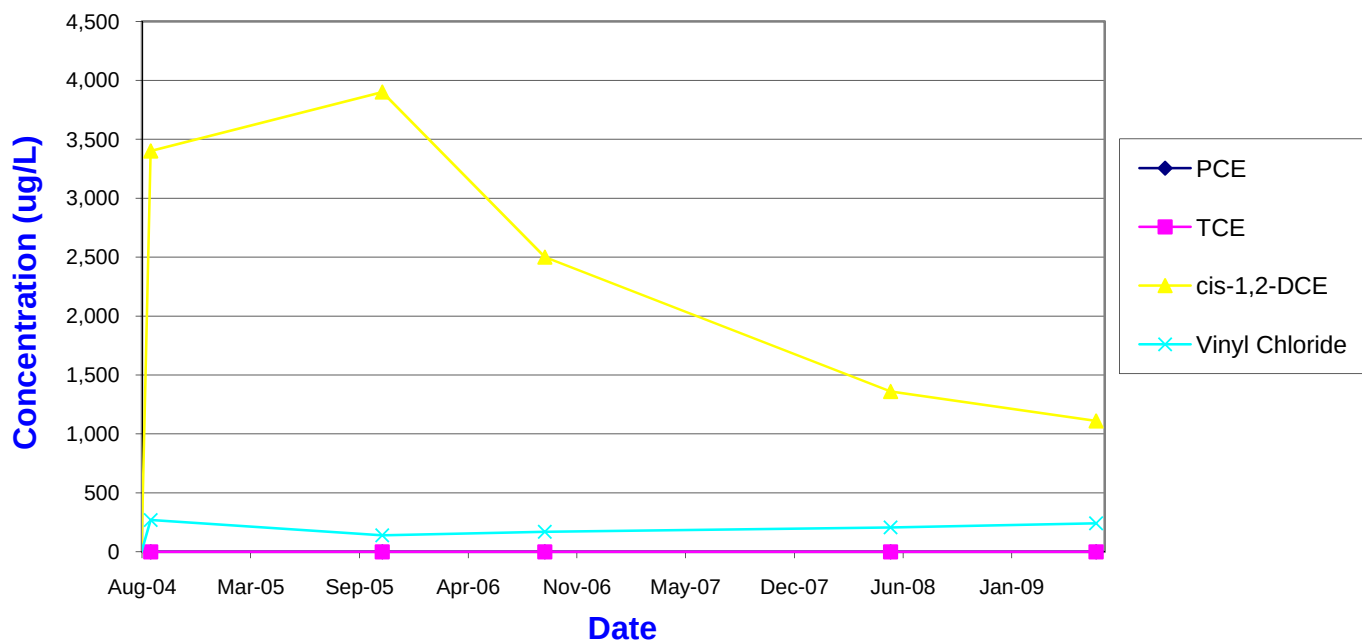
MMW-3S



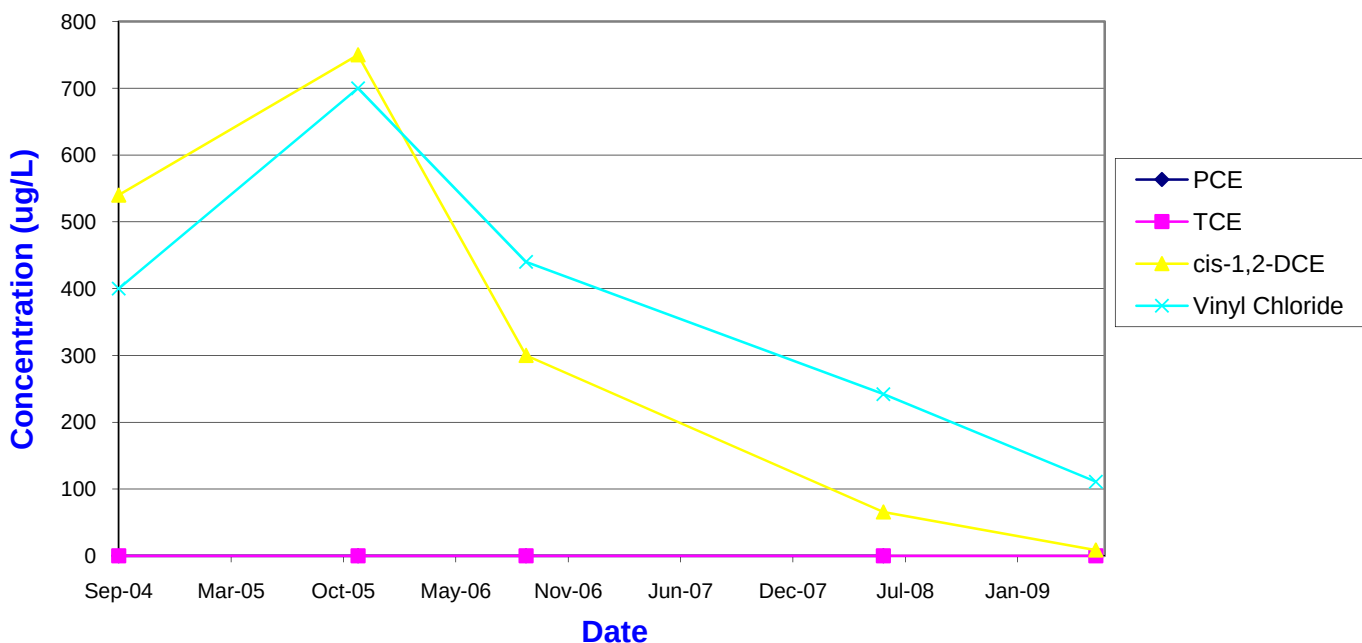
MMW-4D



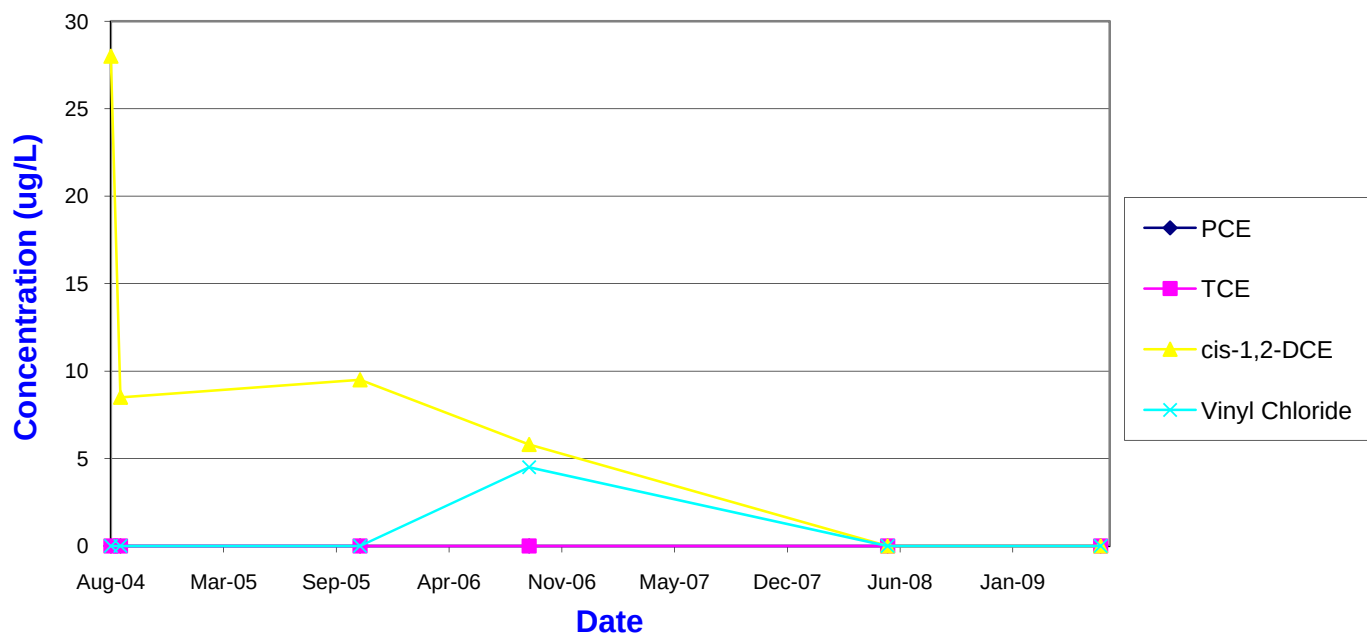
MMW-5D



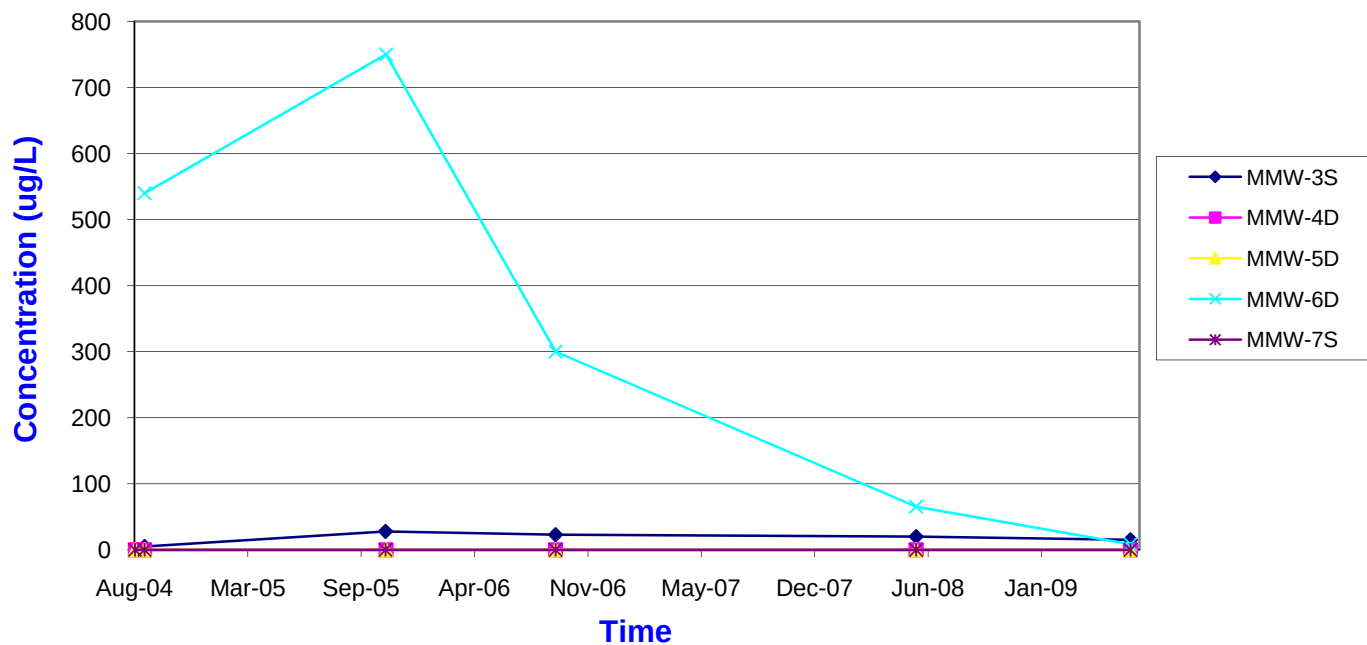
MMW-6D



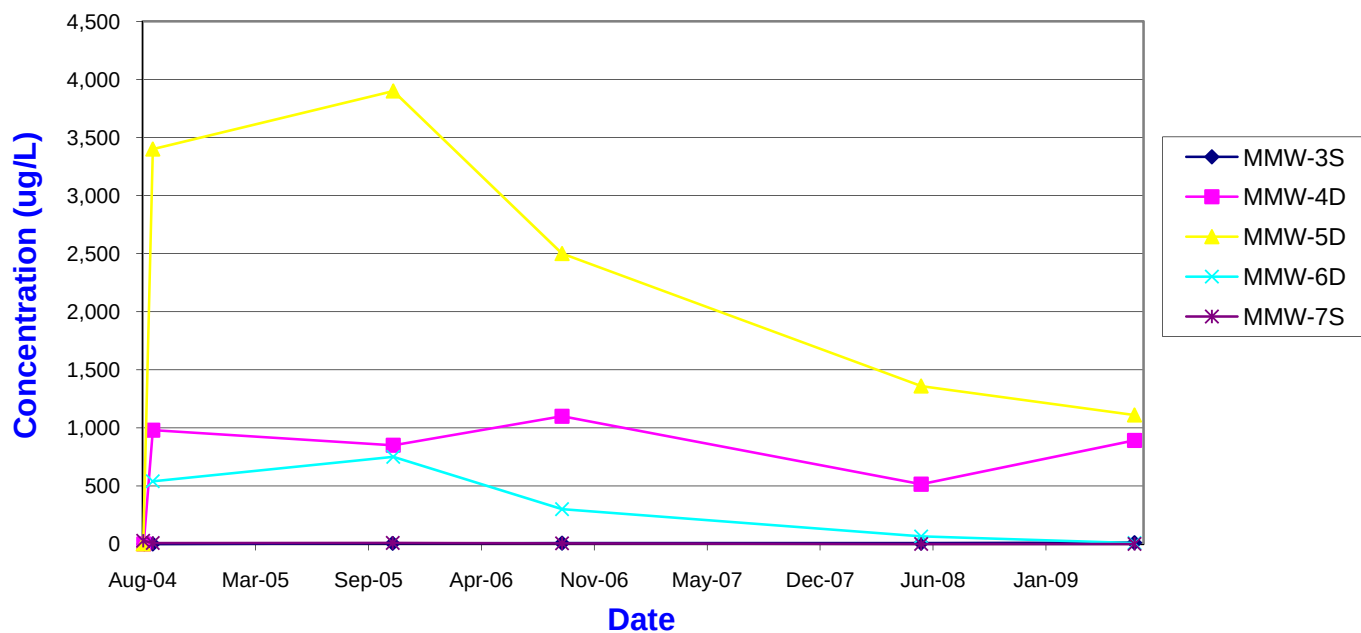
MMW-7S



TCE



cis-1,2-DCE



Vinyl Chloride

