

Semi-Annual Operation & Maintenance Report
Report #37 (November 2007 – April 2008)

N.W. Mauthe Superfund Site

Prepared for

Wisconsin Department of Natural Resources
Bureau for Remediation & Redevelopment

June 4, 2008

WDNR BRRTS Number 02-45-000127

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OMNI
ASSOCIATES

June 5, 2008

Ms. Jennifer Borski, Hydrogeologist
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700
Oshkosh, Wisconsin 54901-9731

**RE: Semi-Annual Operation & Maintenance Report,
N.W. Mauthe Property, BRRTS ID #02-45-000127.**

Dear Ms. Borski:

Enclosed please find three copies of the Semi-Annual Operation & Maintenance Report for the N.W. Mauthe site, located at 725 S. Outagamie Street, Appleton, Wisconsin. The enclosed report outlines the operation and maintenance activities from November 1, 2007 to April 30, 2008.

If you have any questions on the enclosed information, please contact me at 920/830-6141 or by email at bwayner@omnni.com.

Sincerely,
OMNNI Associates, Inc.



Brian D. Wayner, P.E.
Environmental Manager

Enclosures

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Borski, Jennifer - DNR

From: Brian Wayner [Brian.Wayner@omni.com]
Sent: Thursday, June 05, 2008 3:19 PM
To: Borski, Jennifer - DNR
Subject: Mauthe

Three copies of the Mauthe O&M report will be sent out by UPS today. I am planning on making some changes for the next report, but I already put in about four times what I had in the budget for the report and I also did not want to take any longer getting it to you. I cleaned up the tables, but I think the graphs and figures could use some additional work next time.

The package will also include the monthly status report/invoice, the invoice for the doors, and the invoice for the coordination associated with the doors.

If you have any questions when you receive the package, please contact me.

Brian Wayner, P.E.
Environmental Manager

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Semi-Annual Operation & Maintenance Report
N.W. Mauthe Superfund Site
Conducted For
The Wisconsin Department of Natural Resources

Report #37
(November 2007 – April 2008)

N.W. Mauthe Site
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June 4, 2008

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Background Information

Site Location

The N. W. Mauthe (Mauthe) property is located at 725 South Outagamie Street, Appleton, Wisconsin 54914-5072. The project is located in the NE¼, NW¼, Section 34, T21N, R17E, Outagamie County. (See Figure 1 – Site Location Map, Appendix 1.)

Site History

The Mauthe site was a former electroplating facility. The facility consisted of a zinc building and a chromium building. Zinc, cadmium, copper, and possibly silver were electroplated in the zinc building from 1978 to 1987. Hard chromium plating was conducted in the chromium building from 1960 to 1976. In 1982, the Wisconsin Department of Natural Resources (WDNR) received a report that yellowish-green water was observed south of the chromium building. Apparently, for several years plating solutions and waste solvents had leaked from holding vats and tanks, and sump pumps allegedly discharged plating tank solutions onto the ground outside the facility.

The WDNR began an investigation of the site in April 1982. A shallow groundwater collection system was installed parallel to the railroad tracks in May 1982, where groundwater and surface water were collected for two years. The Mauthe site was added to the National Priorities List in 1989.

From November 1991 to May 1992, CH2M HILL performed a Remedial Investigation (RI) for the WDNR. The RI showed the greatest concentrations of soil and groundwater contamination in the area around the zinc and chromium buildings. The chemicals most often detected above background levels or state standards included total chromium, hexavalent chromium, zinc, cadmium, cyanide, trichloroethene, 1,1,1-trichloroethane, 1,1-dichloroethene, and toluene. Subsurface soil contamination was detected up to 25 feet deep near the former buildings. Groundwater contamination extended over most of the block bordered by Melvin, Outagamie, and Second Streets.

CH2M HILL conducted a feasibility study for the WDNR. A Record of Decision (ROD) was signed in March 1994. Remedial design/remedial action activities took place at the Mauthe site in a phased approach. Phase I, which took place in 1995, included:

- Demolition and removal of the buildings on the Mauthe property.
- Excavation and off-site treatment of soils with a total chromium concentration of greater than 500 mg/kg.
- Backfilling of the excavation with clean soils, capping the site with 2-feet of clay and topsoil, and the establishment of vegetative cover.
- Installation of groundwater collection trenches and construction and operation of a groundwater treatment facility to contain and/or control groundwater contamination with ultimate compliance with groundwater Applicable or Relevant and Appropriate Requirements (ARAR's).
- Improvement or installation of foundation drain systems and cleaning, painting or sealing of basement walls and floors, as needed, for homes or businesses in the area of the site, to prevent seepage of contaminated water into the buildings.

Phase II, which took place in 1996, involved the construction of a groundwater treatment system, which began operation in February 1997.

Midwest Contract Operations, Inc. (MCO) began operating the groundwater treatment system in February 1997. CH2M Hill, the site engineer and project manager for the United States Environmental Protection Agency (EPA), retained responsibility for the overall site operations and the groundwater monitoring wells associated with the treatment system.

In October 1998, after the first year of operation and maintenance of the remediation system, the WDNR assumed the responsibility from the EPA for all operation and maintenance of the site. MCO was retained by the WDNR for the operation and maintenance of the groundwater treatment system, including the groundwater monitoring wells.

In January 2005, the WDNR requested OMNNI Associates, Inc. (OMNNI) provide an evaluation of the groundwater collection and treatment system at the Mauthe site. The installation of four piezometers (PZ-5, PZ-6, PZ-7 and PZ-8) was part of the evaluation to understand the extent of contaminants in the soil and groundwater. OMNNI installed five additional monitoring wells (MW-109 through MW-113) on May 24, 2006, to further understand the extent of contaminants in the soil and groundwater in the former source area.

The results of the additional investigation conducted show contamination remains in the soil above ch. NR 720 Wis. Adm. Code levels, in the groundwater above ch. NR 140 Wis. Adm. Code enforcement standards, and in the groundwater above the ARARs established for the Mauthe site. Groundwater does not appear to be impacted at depth based on the piezometer groundwater analysis.

Active treatment of collected groundwater ended on April 18, 2006 with approval for direct discharge by the City of Appleton. Collected groundwater is now discharged directly to the sanitary sewer system for treatment at the City of Appleton waste water treatment facility.

On October 13, 2007 MCO discontinued operational responsibilities of the system. OMNNI began operational responsibilities on October 14, 2007.

Site Description

The site is located within the City of Appleton limits in an area of mixed commercial, light industrial and residential properties. The property is approximately one acre in size and triangular in shape. (See Figure 2 – Site Detail Map, Appendix 1.) Melvin Street borders the site to the north, a parking lot owned by Miller Electric and Manufacturing Company is on the west, and railroad tracks are on the southeast. Private residences are located north of Melvin Street and south of the railroad tracks. The former zinc building was located on the northeast portion of the property. The former chromium building was located on the southwest portion of the property. Approximately half of the land immediately surrounding the site contains impervious structures or paved roads and parking areas.

Groundwater Collection System

The groundwater collection system consists of three trenches. The west trench crosses the Miller Electric property to the west of the site and is approximately 200 linear feet in length. The central trench runs south of the site parallel to the railroad and is approximately 280 linear feet in length. The southeast trench runs along Second Street and Outagamie Street and is approximately 600 linear feet in length. (See Figure 2 – Site Detail Map, Appendix 1.)

The groundwater treatment system was designed to capture groundwater containing contaminants at concentrations greater than 1992 ch. NR 140, Wis. Adm. Code preventative action limits (PALs) as

approved in the ROD. The west trench and southeast trench were located outside the estimated extent of the groundwater contamination and are designed to prevent further migration of groundwater contamination. The central trench was designed to collect contaminated groundwater and prevent further migration of the groundwater contamination off-site.

Groundwater enters the trenches based on the head differential between the local water table and the level maintained in the trench. The trenches are backfilled with coarse sand. A 6-inch perforated high-density polyethylene collection pipe in the bottom of the trench drains water from the trench to manholes where the water is collected and pumped to the groundwater treatment facility.

In normal operation, the water level in the trenches is maintained at or near the bottom of the trench. The trenches can provide storage and continue to act as a hydraulic barrier until the water in the trench rises to the level of the water table. This storage capacity can be taken advantage of if the collection/treatment system needs to be shut down for repair or maintenance for a short period of time.

Three properties south and southeast of the facility have foundation drain systems that are connected to the groundwater collection system via gravity piping (801 S. Outagamie Street, 1410 W. Second Street, and 1414 W. Second Street). Additionally, the sump pump discharge at 1428 W. Second Street is connected to the collection system.

Groundwater collected in the west trench flows by gravity to manhole 1 where the maximum depth of the trench extends approximately 32 feet below ground surface (fbgs). Groundwater in the central and southeast trenches flows by gravity to manhole 2, where the maximum depth of the trench extends approximately 31 fbgs. Groundwater from the manholes is piped to the treatment facility. (See Figure 3 – Site Detail Map, Appendix 1.)

Groundwater Treatment System

From February 1997 through April 18, 2006, the treatment system operated in a manual batch system mode. The groundwater treatment system was designed to be a fully automated batch treatment process designed for control of total chromium. Each batch operation was capable of treating 2,700 gallons of influent groundwater and took approximately six hours to complete a cycle (i.e., from the start of filling the reaction tank to finishing the discharge to the City of Appleton sanitary system). The system was capable of treating 10,800 gallons in a 24-hour period.

Pumps located in the two manholes convey groundwater from the collection trenches into the storage tank. Float switches control water levels in the manholes. The pumps have a pumping capacity of 43 gallons per minute (gpm) each.

A storage tank stores water from the collection system to provide equalization of the groundwater. The storage tank has a 9,000 gallon capacity. A top-mounted, turbine type, constant speed mixer, for mixing the tank contents and keeping solids in suspension, is located on the tank. An ultrasonic level indicator monitors the water level in the tank. The water level of the storage tank is monitored by the programmable logic controller (PLC).

Prior to the start of direct discharge on April 18, 2006, the reaction tank feed pump transferred groundwater from the storage tank to the reaction tank. The reaction tank feed pump is an air

operated, double diaphragm pump with an 86 gpm capacity. The reaction tank feed pump is sized to fill the reaction tank working volume (2,700 gallons) in approximately 30 minutes.

The reaction tank has a capacity of 6,100 gallons. The conical bottom of the tank allows for the collection and transfer of sludge. The volume of water treated during a batch process is approximately 2,700 gallons. Chemical and physical processes for the groundwater treatment occurred in the reaction tank. The water was treated by batch process in the reaction tank as follows: decant, fill, ferrous sulfate addition, caustic addition, aeration, flocculation, settling, and sludge withdrawal.

The above systems are the primary parts in the treatment process. However, there are several other components necessary for the successful treatment of contaminated groundwater. They include: reaction tank mixer, reaction tank level detector, reaction tank air diffuser, reaction tank pH monitor, air compressor, ferrous sulfate feed system, caustic feed system, sludge transfer pump, sludge tank, and tanker truck feed pump. These components were monitored and/or controlled by the PLC in the master control panel. Only the tanker transfer pump and the air compressor are locally controlled. The system was designed to provide continuous batch process treatment if required.

The master control panel includes: failure annunciators, pH strip chart recorder, data access module, autodialer, PLC system, and uninterruptible power supply. The master control panel will also sound an audible alarm if an upset in the process or a failure is detected.

Although the system was designed to be a fully automated batch treatment process, the City of Appleton industrial user permit formerly required treated groundwater to be tested for hexavalent chromium using a Hach hexavalent chromium test kit before discharge to the sanitary sewer system. The existing treatment system (batch treatment and manual discharge) met discharge permit conditions but was labor intensive.

Groundwater brought into the treatment facility has contaminant concentrations below discharge limits. The WDNR received approval from the City of Appleton to perform direct discharge of untreated, collected groundwater beginning April 18, 2006, when influent meets discharge limits listed in the Appleton Industrial User (Wastewater Discharge) Permit No. 06-21. Since April 18, 2006, collected groundwater has been directly discharged without treatment to the City of Appleton sanitary sewer system.

Groundwater Monitoring Network

The groundwater monitoring wells and piezometers were designed to provide information on containment of the groundwater plume and on water quality at the site and adjacent residential properties. The monitoring network is comprised of eleven monitoring wells constructed during the RI and the remedial action (RA) activities (W-2, W-8, W-15, MW-101 through MW-108), five monitoring wells (MW-109 through MW-113) installed in May 2006 and four piezometers (PZ5 through PZ8) installed in May 2005, to evaluate the remaining source area. (See Figure 2 – Site Detail Map, Appendix 1.)

Monitoring wells W-2 and MW-108 are located up-gradient of the site to monitor background conditions.

Monitoring well MW-101, which is located west of the site, is used to monitor the effectiveness of the west trench.

Three down-gradient wells, MW-102, MW-103 and MW-104, are used to monitor changes in groundwater quality down-gradient of the central trench and to monitor hydraulic gradient control.

Four wells, W-8, W-15, MW-105 and MW-106, are used to monitor changes in groundwater quality outside of the southeast trench. Monitoring wells MW-106 and W-15 are also used to monitor hydraulic gradient control of the southeast trench.

Monitoring well MW-107 is used to provide source area groundwater quality data and hydraulic gradient information up-gradient of the central trench.

Five wells (MW-109 through MW-113) installed in May 2006 are located at former source areas identified during the RI:

MW-109 is located at the west edge of the former chromium building between two historic monitoring points (MW25R and MW26R) installed during the RI with significant concentrations of volatile organic compounds (VOCs) and chromium in groundwater.

MW-110 is located on the north edge of the former chromium building adjacent to a nest of three historic monitoring points (MW17, MW18 and MW19) installed during the RI with significant concentrations of VOCs and chromium in groundwater.

MW-111 is located near a historic monitoring point (MW13R) installed during the RI with significant concentrations of chromium in groundwater.

MW-112 is located within the former zinc building at the edge of the former trough adjacent to a historic soil sample (SB3A) installed during the RI with significant concentrations of metals (cadmium, chromium, zinc and cyanide) in soil.

MW-113 is located on the southeast edge of the former chromium building adjacent to a nest of three historic monitoring points (MW14, MW15 and MW16) installed during the RI with significant concentrations of VOCs (MW14 only) and chromium in groundwater.

PZ5 and PZ6 are located on the north side of the central collection trench and PZ7 and PZ8 are located on the south side of the central collection trench to evaluate the vertical extent of groundwater contamination and verify vertical capture of the groundwater plume.

In May 10, 2004, four piezometers (PZ-01, PZ-02, PZ-03 and PZ-04) were abandoned. The bottoms of the piezometers were installed near the elevation of the collection trench piping and were within the trenches. The purpose of the piezometers was to determine whether the trenches were working properly. Since the trenches were functioning properly, the piezometers were abandoned.

Monitoring and Reporting

Prior to Outfall 001¹ sample collection, the discharge valve from the storage tank is closed, typically on a Monday morning. The storage tank is allowed to accumulate pumped water until the sampling event the following day, typically Tuesday morning. The discharge valve is opened and water is allowed to discharge for approximately five minutes. The Outfall 001 sampling port is opened and approximately 10 gallons of water is allowed to discharge from the sampling port prior to collecting a sample. During a monthly event, samples are typically collected the Tuesday of the first full week in the month.

Weekly Monitoring and Reporting

During the month of April, unfiltered weekly samples were collected from Outfall 001. The weekly samples were picked up at OMNNI's office by a courier from Pace Analytical Services, Inc. (Pace). Pace analyzed the samples for hexavalent chromium. Pace provided an electronic report of the analysis to Brian Wayner, OMNNI's project manager, who sent the report to Jennifer Borski, WDNR project manager, and Chris Stempa, City of Appleton Pretreatment and Biosolids Coordinator. pH values were also determined on the samples collected by using a Hach pH Pocket Pal Tester.

During the month of April, unfiltered weekly samples were collected from Manhole No. 1 influent sampling port and from Manhole No. 2 influent sampling port. Manhole No. 1 and No. 2 influent samples were measured with a Hach test kit, model Pocket Colorimeter II, for hexavalent chromium, and pH values were determined by a Hach pH Pocket Pal Tester.

Total flow from Outfall 001, total flow from Manhole No. 1 and total flow from Manhole No. 2 were recorded on an Operator Log Sheet. pH values from Outfall 001, Manhole No. 1 influent and Manhole No. 2 influent and hexavalent chromium analysis from Manhole No. 1 influent and Manhole No. 2 influent were also recorded on the Operator Log Sheet. The original Operator Log Sheets are kept at the facility. A summary of the total flow, pH readings, laboratory analysis and test kit analysis can be found in Table 1. (See Table 1 – Influent and Effluent Summary, Appendix 2.)

Monthly Monitoring and Reporting

During the months of November through March, an unfiltered sample was collected from Outfall 001 to be analyzed by Pace for hexavalent chromium and a filtered sample was collected from Outfall 001 to be analyzed by Pace for total dissolved chromium. Pace provided an electronic report of the analysis to OMNNI's project manager, who sent the report to the WDNR project manager, and the City of Appleton's Pretreatment and Biosolids Coordinator. A pH value from the Outfall 001 sample was also determined on the samples collected by using a Hach pH Pocket Pal Tester.

During the months of November through March, an unfiltered sample was collected from Manhole No. 1 influent sampling port and from Manhole No. 2 influent sampling port. Manhole No. 1 and No. 2 influent samples were measured with a Hach test kit, model Pocket Colorimeter II, for hexavalent chromium, and pH values were determined by a Hach pH Pocket Pal Tester.

Total flow from Outfall 001, total flow from Manhole No. 1 and total flow from Manhole No. 2 were recorded on an Operator Log Sheet. pH values from Outfall 001, Manhole No. 1 Influent and Manhole No. 2 Influent and hexavalent chromium analysis from Manhole No. 1 Influent and Manhole No. 2 Influent were also recorded on the Operator Log Sheet. The original Operator Log Sheets are kept at the

¹ Outfall 001 is the point where the groundwater leaves the facility and enters the City of Appleton sanitary sewer system. There is currently only one outfall.

facility. A summary of the total flow, pH readings, laboratory analysis and test kit analysis can be found in Table 1. (See Table 1 – Influent and Effluent Summary, Appendix 2.)

The WDNR project manager was provided with a monthly status report summarizing operation and maintenance at the site. The monthly status reports include OMNNI's invoice for services from the previous month, a copy of invoices paid during the month, a copy of the Operator Log Sheets, and a copy of the Inspection Sheet.

Quarterly Monitoring and Reporting

Quarterly compliance reports were submitted to the City of Appleton's Pretreatment and Biosolids Coordinator and the WDNR project manager on January 14, 2008 and April 1, 2008. The quarterly compliance reports included total metered discharge readings, pH measurements, and laboratory analysis.

Semi-Annual Monitoring and Reporting

The semi-annual reporting consists of this document, Semi-Annual Operation and Maintenance Report, which is prepared for the WDNR project manager after receiving the laboratory data from the semi-annual groundwater sampling event. The Semi-Annual Operation and Maintenance Report includes the Operation, Maintenance, Monitoring and Optimization Reporting of Soil and Groundwater Remediation Systems, Form 4400-194. (See Operation, Maintenance, Monitoring and Optimization Reporting of Soil and Groundwater Remediation Systems, Form 4400-194, Appendix 4.)

Compliance Sampling

Compliance sampling of the groundwater effluent is conducted twice per year by the City of Appleton at the sampling port for Outfall 001. The effluent is analyzed for the parameters listed in Table 2. (See Table 2 – City of Appleton Compliance Limits, Outfall 001, Appendix 2.) The City of Appleton collected compliance samples on December 4, 2007 and on January 16, 2008.

OMNNI collected one compliance sample from the sampling port of Outfall 001 during the first quarter of the calendar year. OMNNI collected the compliance sample on April 8, 2008. A summary of the compliance sampling was submitted to the City of Appleton's Pretreatment and Biosolids Coordinator and the WDNR project manager on April 18, 2008. There were no exceedances during this reporting period of the Industrial User (Wastewater Discharge) Permit from Outfall 001 based on the monitoring performed.

A summary of the City of Appleton's compliance sampling analysis and OMNNI's annual compliance sampling analysis can be found in Table 2. (See Table 2 – City of Appleton Compliance Limits, Outfall 001, Appendix 2 and laboratory report and chain of custody, Appendix 5.)

In addition to the sampling events listed above, process compliance samples are collected according to the following schedule. Total chromium is analyzed monthly from a sample collected from Outfall 001's sampling port. Samples collected for hexavalent chromium analysis are collected weekly during April through October and monthly during November through March. (See Table 1 – Influent and Effluent Summary, Appendix 2.)

Groundwater Sampling

Groundwater Sampling Procedures

Two reductions to the original monitoring plan have been requested since 1997. On December 3, 1999, Jennifer Huffman with the WDNR requested a reduction to the monitoring plan:

1. Elimination of quarterly sampling for copper, zinc, mercury and cyanide at all site wells.
2. Reduction in VOC sampling frequency from quarterly to annual.
3. Elimination of weekly testing for total suspended solids on the treated effluent.

EPA approved the 1999 request on January 18, 2000.

On March 24, 2003, Jennifer Borski with the WDNR requested a reduction to the monitoring plan:

1. Elimination of quarterly cadmium sampling at all site wells.
2. Reduction in the frequency from quarterly to annual sampling of manganese at all site wells. Manganese detections did not appear to be related to contamination from the plating operations.
3. Reduction in the frequency from quarterly to annual sampling of total dissolved chromium at W-2, W-8, W-15, MW-101, MW-102, MW-105, MW-106 and MW-108.
4. Elimination of annual VOC sampling at W-2, W-8, W-15, MW-101, MW-102, MW-103, MW-104, MW-105, MW-106 and MW-108.

EPA approved the 2003 request on April 17, 2003.

There are 16 groundwater monitoring wells and four piezometers associated with the Mauthe remediation system. (See Figure 2 – Site Detail Map, Appendix 1.)

During the April 16, 2008 sampling event, groundwater elevation measurements were taken from all monitoring wells and piezometers, with the exception of monitoring well W-15, prior to sampling. The north bolt holding down the cover of monitoring well W-15 could not be removed. A summary of the historical groundwater elevations for the site is included in Table 3. (See Table 3 – Groundwater Elevations, Appendix 2.) The groundwater elevation data from the monitoring wells and piezometers were used to develop groundwater contour maps. (See Figure 3 – Groundwater Elevation Contour Map (4/16/2008) and Figure 4 – Piezometric Groundwater Elevation Contour Map (4/16/2008), Appendix 1.) Groundwater flow direction was in the general direction of the collection trenches. Since two of the three collection trenches are near monitoring well MW-102, groundwater elevation at monitoring well MW-102 is likely near the pumping level in manhole 2. If the elevations along the collection trenches were known, the groundwater contours could be portrayed more accurately.

Down-well tubing was installed in monitoring points to be sampled. A peristaltic pump was attached to the down-well tubing and the monitoring point was micro-purged for approximately 15 minutes before collecting the sample(s). The sampling process utilized a flow-through cell where probes measured temperature, conductivity, pH, dissolved oxygen, and oxidation/reduction potential in each well. Flow through the cell was maintained at approximately 300 ml/min. utilizing a resistor to control pump flow. Purged water from the monitoring points was collected, taken into the treatment building, and discharged at the Outfall 001 pipe leading to the City of Appleton sanitary sewer system.

Groundwater samples were collected after the monitoring point was purged. Temperature, conductivity, pH, dissolved oxygen, and oxidation/reduction potential were recorded just prior to sampling. The groundwater samples were collected in the order of VOC vials first (if applicable) and metal samples second. The chromium samples were field filtered with a 45 micron in-line filter. The cyanide samples were not filtered. The laboratory containers were supplied by Pace Analytical. The samples to be analyzed for VOCs were preserved with hydrochloric acid. The samples to be analyzed for (filtered) total chromium were preserved with nitric acid. The samples to be analyzed for total cyanide were preserved with sodium hydroxide. The samples were picked up at OMNNI's office by a courier from Pace.

The groundwater elevations, purged groundwater volume, field testing data, and sample collection time were recorded on a Well Specific Field Sheet. (See Well Specific Field Sheet, Appendix 4.)

Groundwater Sampling Results

During the April 16, 2008 sampling event, field measurements were taken on groundwater samples collected from monitoring wells MW-101 through MW-104, MW-107, and MW-109 through MW-113 for temperature, conductivity, pH, dissolved oxygen, and oxidation/reduction potential. A summary of the field measurements are contained in Table 4. (See Table 4 – Groundwater Geochemical Parameters, Appendix 2.)

Groundwater from monitoring wells MW-101 through MW-104, MW-107, and MW-109 through MW-113 was analyzed for (filtered) total chromium. Groundwater from monitoring wells MW-107 and MW-109 through MW-113 was also analyzed for VOCs. Groundwater from monitoring wells MW-110 through MW-112 was also analyzed for total cyanide. A duplicate groundwater sample was collected from monitoring well MW-112 and analyzed for (filtered) total chromium, VOCs, and total cyanide.

The laboratory analytical results indicate that levels of (filtered) total chromium exceed the 1992 ch. NR 140, Wis. Adm. Code groundwater PAL² in monitoring wells MW-103 (380 µg/l), MW-104 (545 µg/l), MW-107 (4,410 µg/l), MW-109 (1,550 µg/l), MW-110 (32,500 µg/l), MW-111 (212 µg/l), MW-112 (88,400 µg/l) and MW-113 (16,400 µg/l). The laboratory analytical results indicate that levels of total cyanide exceed the 1992 ch. NR 140, Wis. Adm. Code groundwater PAL in monitoring wells MW-110 (55 µg/l) and MW-112 (380 µg/l). (See Table 5 – Groundwater Analytical Results / Selected Metals, Appendix 2 and laboratory report and chain of custody, Appendix 5.) An isoconcentration map for (filtered) total chromium concentrations is shown on Figure 5. (See Figure 5 – Isoconcentration Map, Total Chromium (4/16/08), Appendix 1.)

The laboratory analytical results indicate that levels of VOCs (at least one of the following parameters: 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2,-dichloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, and trichloroethene) exceed the 1992 ch. NR 140, Wis. Adm. Code groundwater PAL in monitoring wells MW-107 and MW-109 through MW-113. (See Table 6 – Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs), Appendix 2 and laboratory report and chain of custody, Appendix 5.)

² "Chemical-specific ARARs are laws and requirements that regulate the release to the environment of materials having certain chemical or physical characteristics or materials containing specific chemical compounds... Therefore, the applicable groundwater remedial action goals at this site are the PALs." – Record of Decision Summary, N.W. Mauthe Site, March 1994, pages 36-37.

Groundwater elevation versus time graphs were prepared for monitoring wells MW-102, MW-103, MW-104, MW-107, and MW-109 through MW-113. (See Graph Set 1 - Groundwater Elevation Versus Time Graphs, Appendix 3.) Chromium concentrations versus time graphs were prepared for monitoring wells MW-102, MW-103, MW-104, MW-107, and MW-109 through MW-113. (See Graph Set 2 - Chromium Versus Time Graphs, Appendix 3.) VOCs versus time graphs were prepared for monitoring wells MW-107, MW-110, and MW-113. (See Graph Set 3 – Volatile Organic Compounds (VOCs) Versus Time Graphs, Appendix 3.)

Routine Operation and Maintenance Activities

Completed Operator Log Sheets and Inspection Sheets are kept on file at the facility. Copies of these forms were also sent to the WDNR project manager with the monthly status reports.

Weekly Operation and Maintenance Activities

General inspection of the building, grounds, and treatment equipment occurred during the weekly sampling events of Outfall 001. The Operator Log Sheet contains a check-off box for the general inspection.

Monthly Operation and Maintenance Activities

The grounds, truck bay, office area, bathroom, treatment process area, and sample preparation area were inspected monthly. The Inspection Sheet contains a listing of items to be checked during the monthly inspection.

Annual Operation and Maintenance Activities

The following annual operation and maintenance activities were conducted during this reporting period.

1. The three facility fire extinguishers were taken into Airgas for their annual inspection on December 3, 2007. The fire extinguishers passed inspection.
2. The cross connection control (backflow preventer) performance test was performed on March 3, 2008, by Ogden Plumbing. The cross connection control device passed. The inspection report was sent to the Wisconsin Department of Commerce.

Periodic Operation and Maintenance Activities

The following operation and maintenance activities were performed on an as-needed basis during the reporting period.

1. The City of Appleton will take over grounds maintenance at the N.W. Mauthe site as soon as the intergovernmental agreement between the City and WDNR is signed. Until that time, OMNNI performed snow removal and lawn maintenance. Snow removal consisted of providing access from the street to the building. Lawn maintenance consisted of lawn mowing, edging, and cut grass removal from streets and parking areas.
2. Outfall 001 flow meter/totalizer operation is checked during site visits. According to the factory representative, there are no operator performed calibration functions for the meter unless a hardware failure occurs.
3. General housekeeping activities included replacing cleaning supplies, bathroom supplies, and minor building components. General housekeeping activities also included keeping the facility and grounds clean and removing accumulated waste.

Significant Operation and Maintenance Activities

The following operation and maintenance activities were performed.

1. Flow totalizers were installed on Manhole #1 and Manhole #2 influent lines. The flow totalizers were installed on April 15, 2008, by Ogden Plumbing and OMNNI. The Operator Log Sheet was modified to reflect the addition of the flow totalizers. Additional documentation on the flow totalizers was provided to the WDNR under a separate cover dated May 5, 2008.
2. Several of the snow stops came off the roof during the past winter. The gutter on the backside of the building was also damaged due to snow sliding off the roof. Keller, Inc. has been contracted to make the necessary repairs. The repair work is anticipated to take place in the next several weeks.

Emergency Operations and Shut Downs

There were no emergency operations or shut-downs during this reporting period.

Public Contacts

Attempts were made to contact property owners whose properties contained monitoring wells and/or piezometers prior to the groundwater sampling event. There were no other public contacts during this reporting period.

Conclusions and Recommendations

The results of the laboratory analysis from the April 16, 2008 sampling event indicate that the groundwater continues to exceed the 1992 ch. NR 140, Wis. Adm. Code groundwater PALs for chromium, cyanide, and several VOCs.

The containment trenches appear to be operating as designed. The groundwater laboratory analysis and the groundwater elevations indicate that the groundwater plume is being controlled horizontally by the groundwater containment trenches.

Approximately 495,942 gallons of groundwater was extracted from the containment trenches from November 1, 2007 to April 30, 2008. The groundwater was discharged to the City of Appleton sanitary sewer system under the Industrial User (Wastewater Discharge) Permit Number 06-21. There were no exceedances of the compliance limits during this reporting period. Approximately 7.3 pounds of chromium was removed from the site during the reporting period.

Based on the laboratory analysis from the April 16, 2008 sampling event and the laboratory analysis from the Outfall 001 during the reporting period, OMNNI recommends continued operation of the groundwater extraction system with direct discharge to the City of Appleton sanitary sewer system.

Standard of Care

The conclusions presented in this report were arrived at using generally accepted hydrogeologic and engineering practices. The conclusions presented herein represent our professional opinions, based on data collected over the reporting period and discussed in this report. Conditions at other locations on the property may be different than described in this report. The scope of this report is limited to the specific project and location described herein.

Prepared By:

Brian D. Wayner

Brian D. Wayner, P.E.
Project Manager

Reviewed By:

Don Brittnacher

Don Brittnacher, P.G.
Hydrogeologist

"I, Brian D. Wayner, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Brian D. Wayner

(Professional Engineer)



"I, Don Brittnacher, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

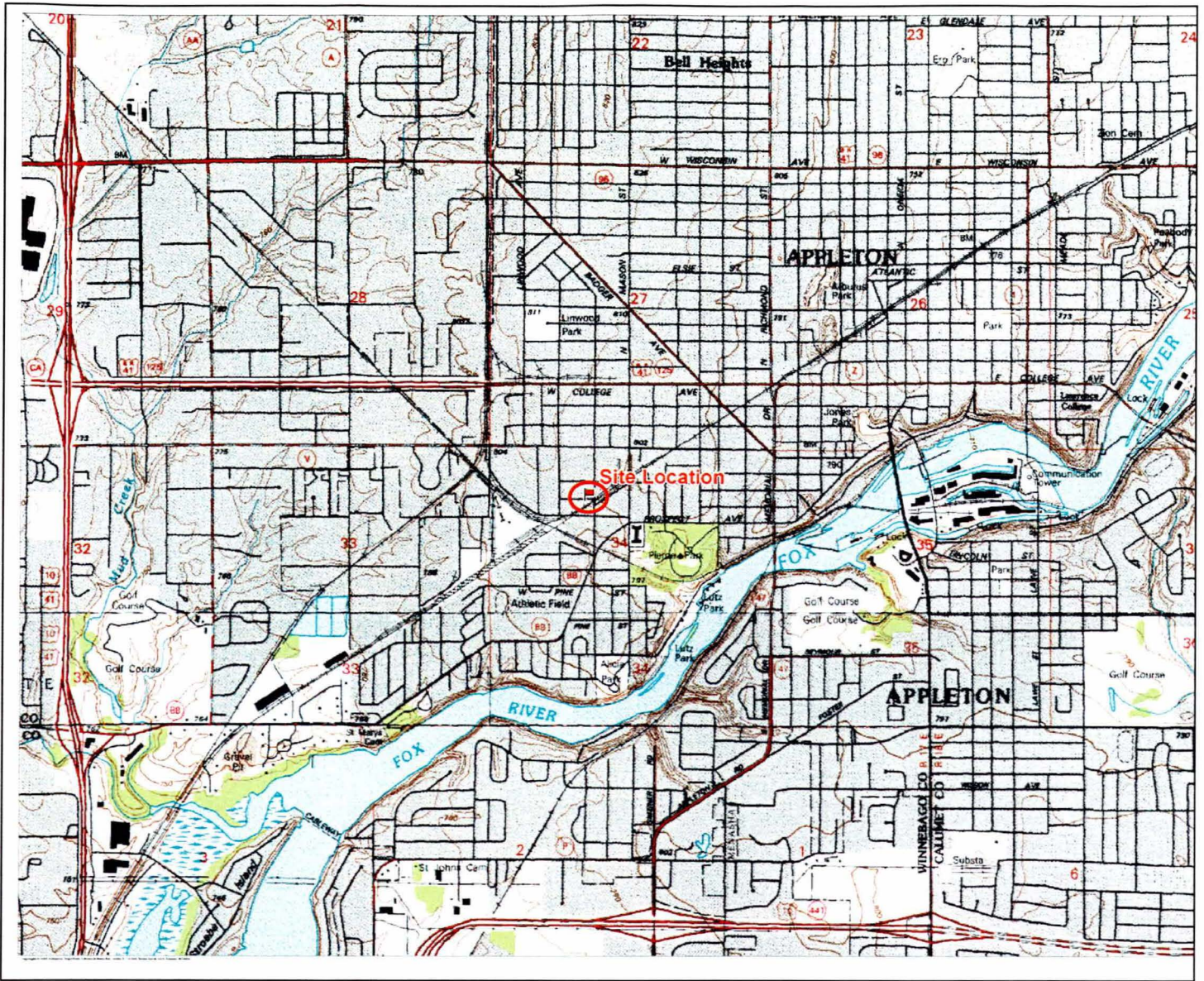
Don Brittnacher

(Professional Geologist)



Distribution

Wisconsin Department of Natural Resources
Bureau of Remediation and Redevelopment
Ms. Jennifer Borski,
Project Manager
625 E. County Road Y, Suite 700
Oshkosh, WI 54901-9731
(Three Copies)



Source: 2000 DeLorme Topo Tools



Figure 1
Site Location Map

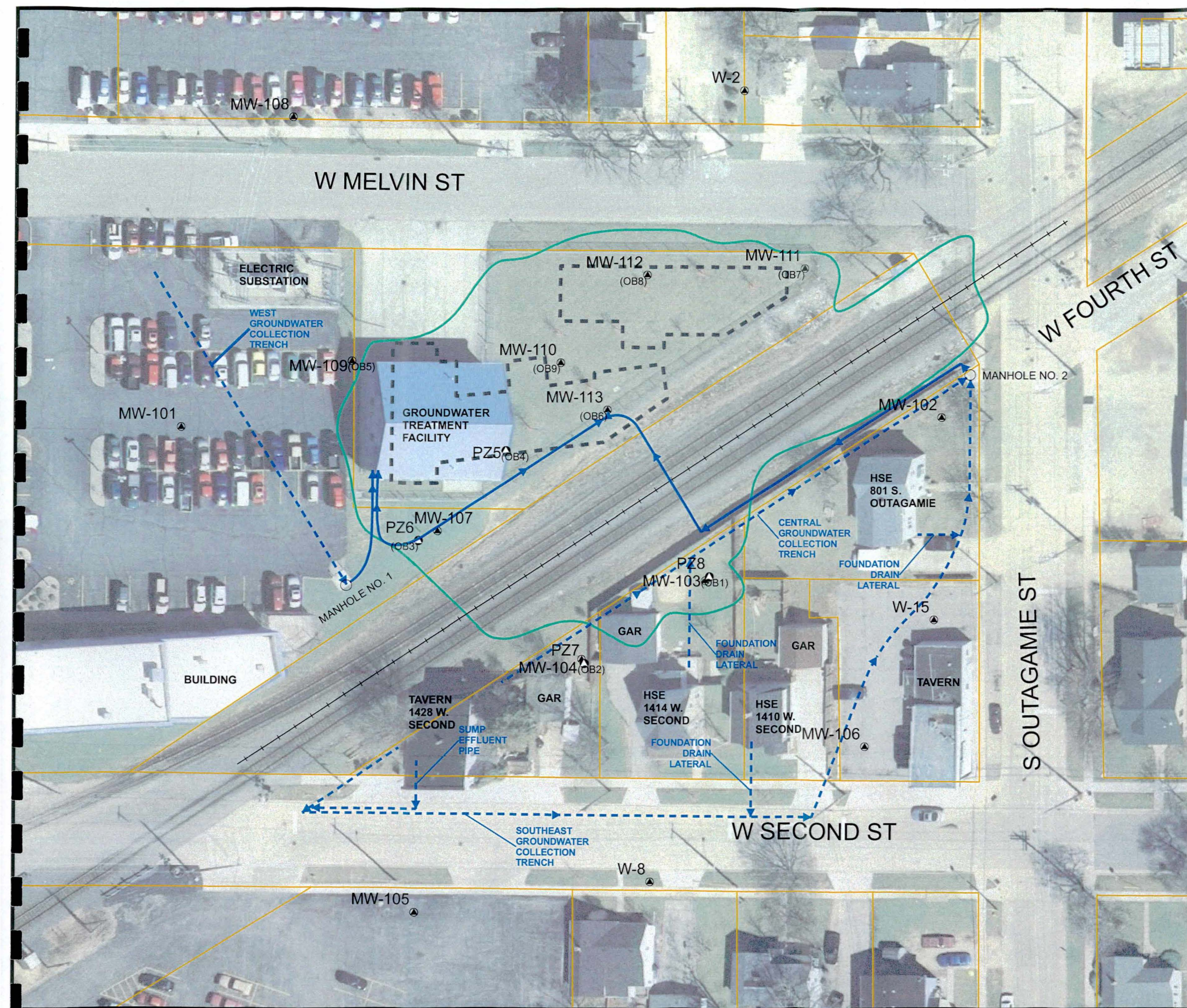
N.W. Mauthe
725 South Outagamie Street
Appleton, Wisconsin 54914-5072



Project Number:
N1866A05

Date: May 14, 2008

One Systems Drive, Appleton, Wisconsin 54914-1654
Phone: (920) 735-6900 Fax: (920) 830-6100



Legend

- ▲ Monitoring Well
- Piezometer
- > Collection System
- Pump Discharge
- +— Railroad Tracks
- Former Building
- Approximate Soil Remediation Limits*
- Property Line

*Approximate Soil Remediation Limits
July 11 - October 27, 1995
(10,834 tons)

N

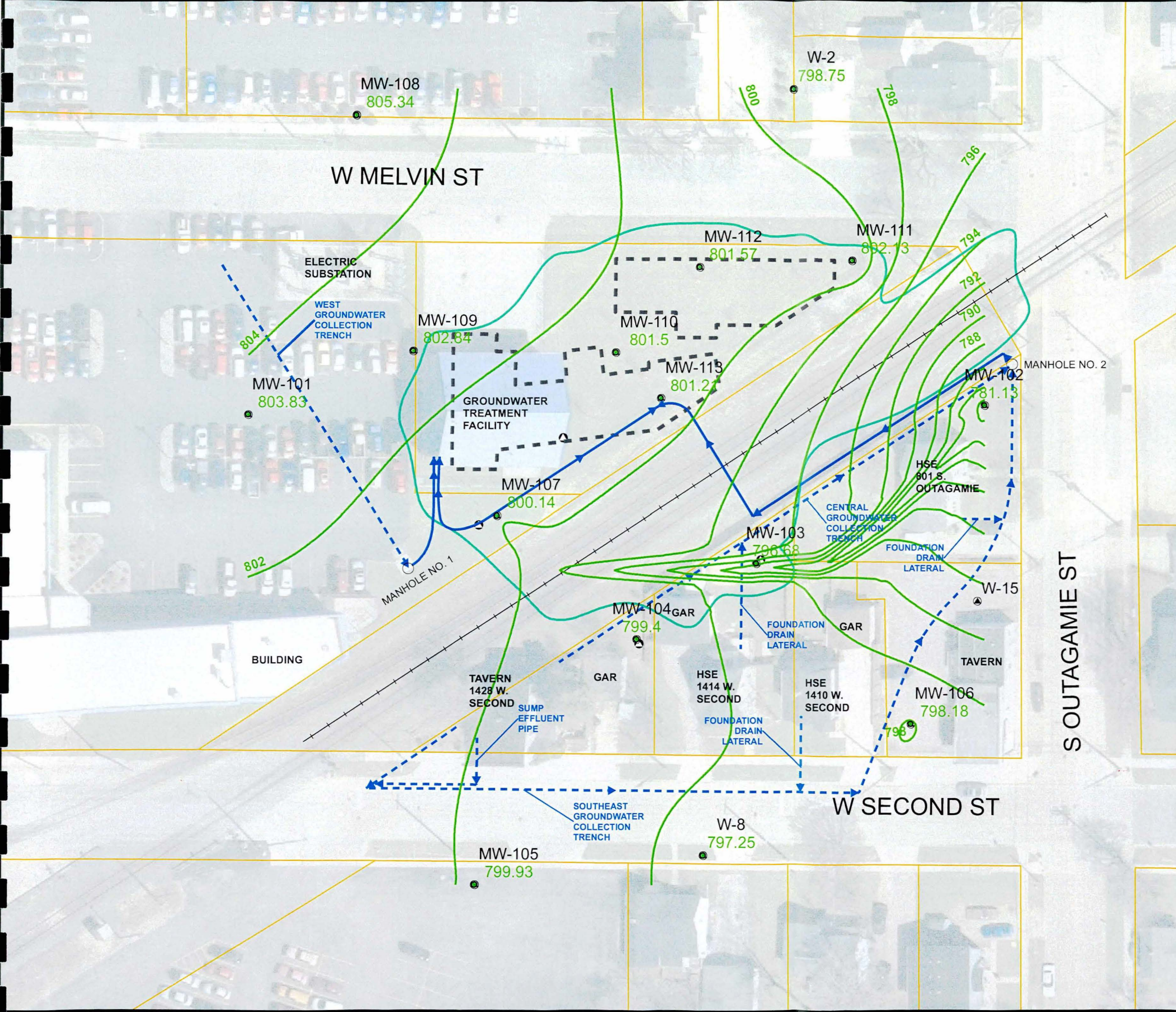
0 25 50 100 Feet

**FIGURE 2
SITE DETAIL MAP**

**N.W. MAUTHE
725 SOUTH OUTAGAMIE STREET
APPLETON, WISCONSIN**

OMNI ASSOCIATES ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

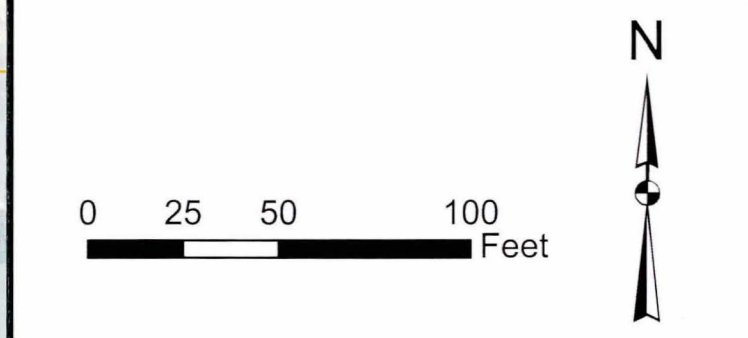
PROJECT MANAGER:	BDW	PROJECT NO:	N1866A05
PROJECT ENGINEER:	BDW	FILE NO:	SITEDET.MXD
DRAWN BY:	JCW	SCALE:	1" equals 48'
REVIEWED BY:	BDW	DATE:	5/14/2008



- ### Legend
- Monitoring Well
 - Piezometer
 - Groundwater Elevation Contour (2 ft)
 - Railroad Tracks
 - Former Building
 - Collection System
 - Pump Discharge
 - Approximate Soil Remediation Limits*
 - Property Line

*Approximate Soil Remediation Limits
 July 11 - October 27, 1995
 (10,834 tons)

NOTE:
 Groundwater contours were drawn assuming no influence by the groundwater collection system.












**FIGURE 3
 GROUNDWATER ELEVATION
 CONTOUR MAP (4/16/2008)**

**N.W. MAUTHE
 725 SOUTH OUTAGAMIE STREET
 APPLETON, WISCONSIN**

OMNI ASSOCIATES ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 PHONE (920) 735-6900
 FAX (920) 830-6100

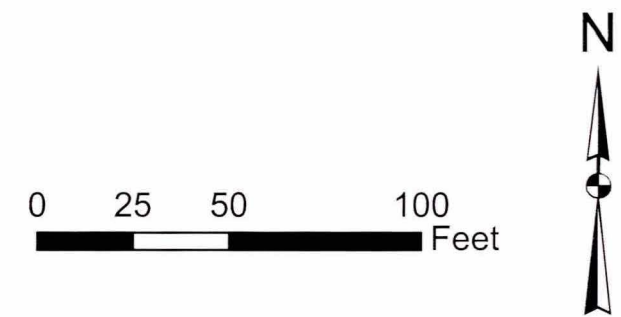
PROJECT MANAGER:	BDW	PROJECT NO:	N1866A05
PROJECT ENGINEER:	BDW	FILE NO:	WSElev_080416.MXD
DRAWN BY:	JCW	SCALE:	1" equals 50'
REVIEWED BY:	BDW	DATE:	6/2/2008

Legend

-  Monitoring Well
-  Piezometer
-  Groundwater Elevation Contour (2 ft)
-  Railroad Tracks
-  Former Building
-  Collection System
-  Pump Discharge
-  Approximate Soil Remediation Limits*
-  Property Line

*Approximate Soil Remediation Limits
July 11 - October 27, 1995
(10,834 tons)

NOTE:
Groundwater contours were drawn assuming no influence by the groundwater collection system.



**FIGURE 4
PIEZOMETRIC GROUNDWATER
ELEVATION CONTOUR MAP (4/16/08)**

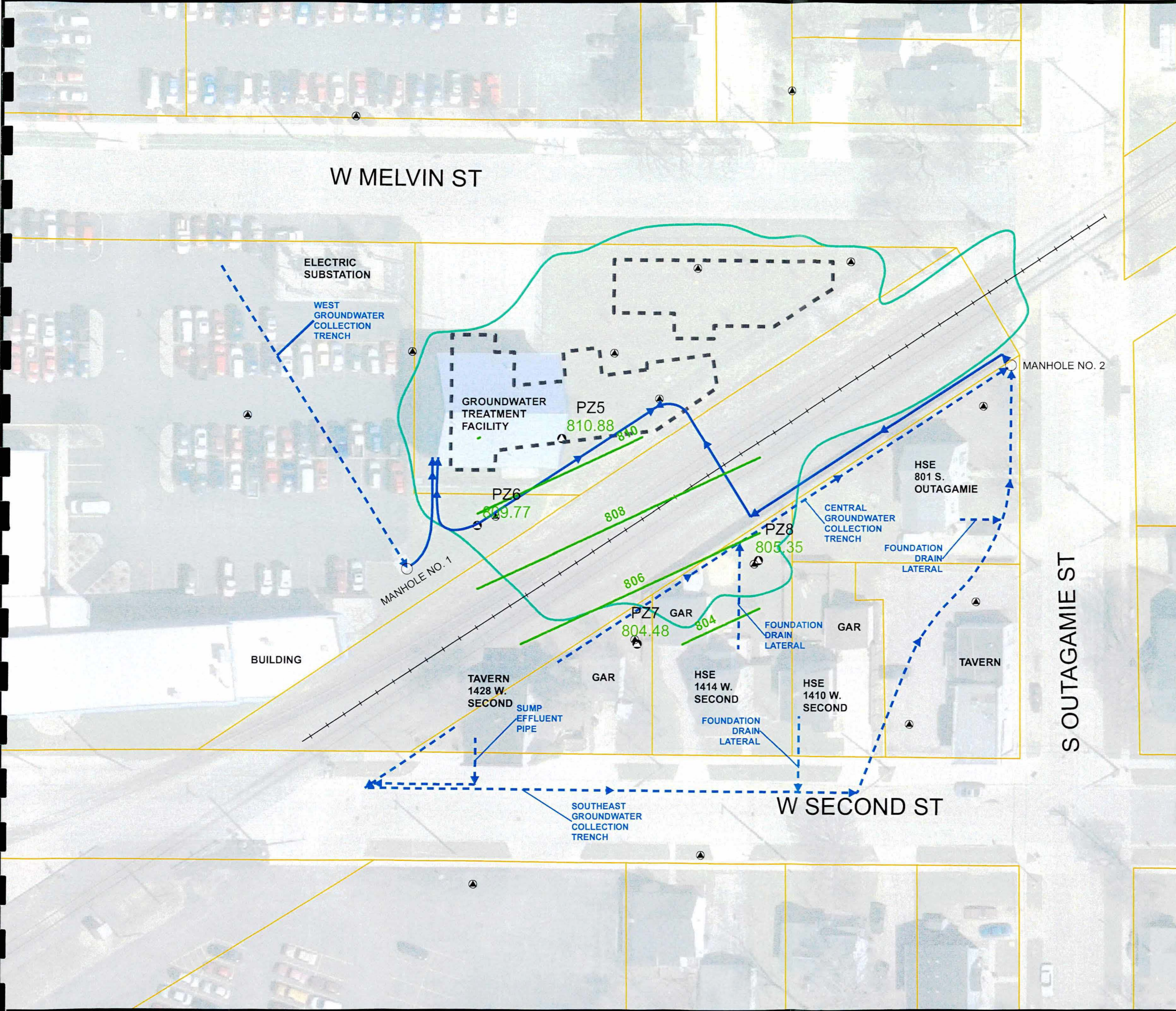
**N.W. MAUTHE
725 SOUTH OUTAGAMIE STREET
APPLETON, WISCONSIN**

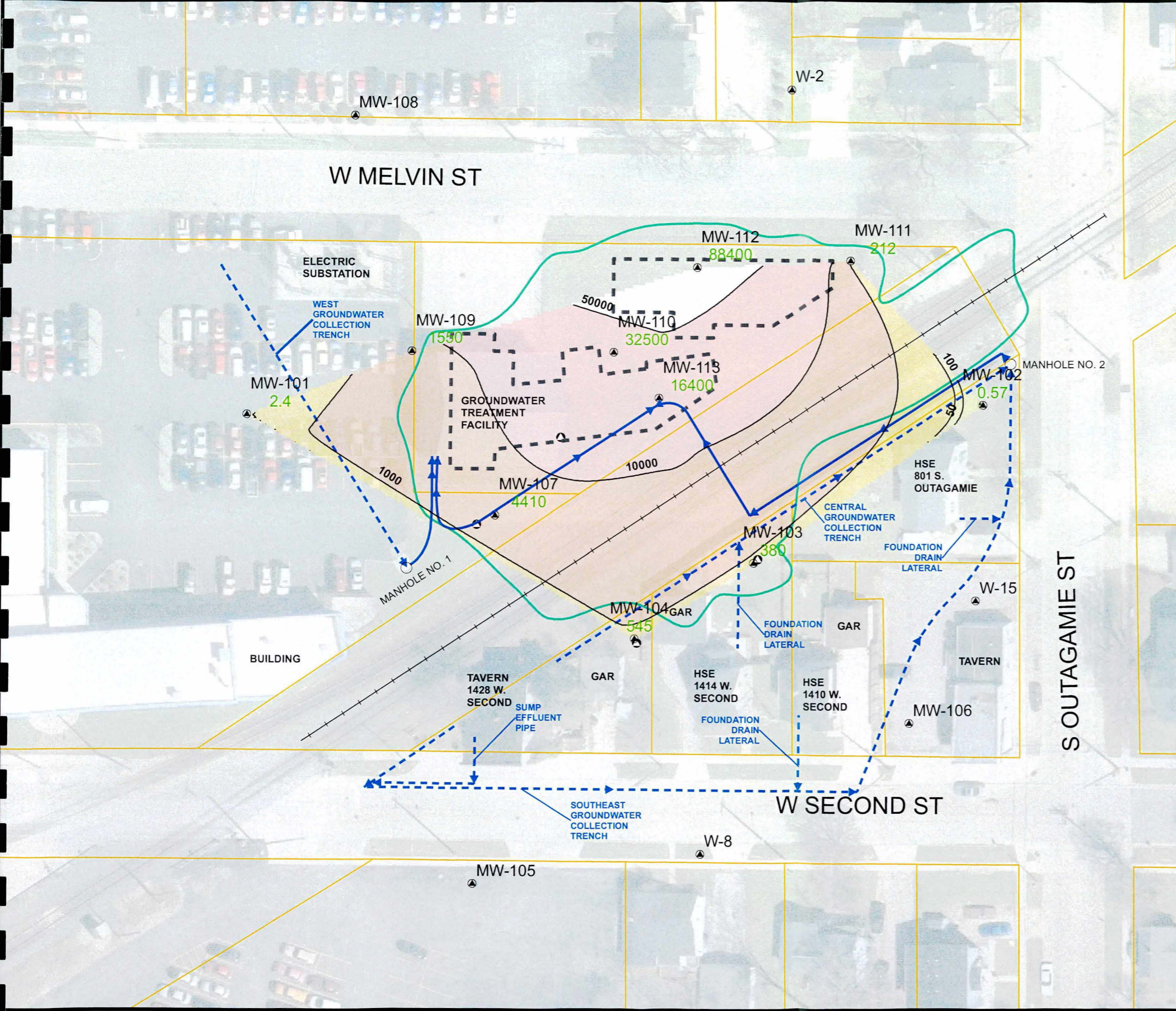


ONE SYSTEMS DRIVE
APPLETON, WI 54914

PHONE (920) 735-6900
FAX (920) 830-6100

PROJECT MANAGER:	BDW	PROJECT NO:	N1866A05
PROJECT ENGINEER:	BDW	FILE NO:	PZElev_080416.MXD
DRAWN BY:	JCW	SCALE:	1" equals 50'
REVIEWED BY:	BDW	DATE:	5/14/2008





Legend

- ▲ Monitoring Well
- ◐ Piezometer
- Groundwater Chromium Concentration (ug/L)
- +— Railroad Tracks
- ⋯ Former Building
- - - Collection System
- Pump Discharge
- ⬭ Approximate Soil Remediation Limits*
- Property Line

*Approximate Soil Remediation Limits
 July 11 - October 27, 1995
 (10,834 tons)

N

0 25 50 100 Feet

**FIGURE 5
 ISOCONCENTRATION MAP
 TOTAL CHROMIUM (4/16/2008)**

**N.W. MAUTHE
 725 SOUTH OUTAGAMIE STREET
 APPLETON, WISCONSIN**

OMNI ASSOCIATES ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 PHONE (920) 735-6900
 FAX (920) 830-6100

PROJECT MANAGER:	BDW	PROJECT NO:	N1866A05
PROJECT ENGINEER:	BDW	FILE NO:	Cr_080416.MXD
DRAWN BY:	JCW	SCALE:	1" equals 50'
REVIEWED BY:	BDW	DATE:	5/14/2008

Table 2 - City of Appleton Compliance Limits, Outfall 001

N.W. Mauthe Superfund Site - Appleton, WI

		Aluminum (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Chromium Total (mg/L)	Copper (mg/L)	Cyanide (mg/L)	Lead (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Hexavalent Chromium (mg/L)
Permit #06-21 Limits		70	1.0	0.3	7.0	3.5	1.0	2.0	0.002	2.0	10.0	4.5
Sampler	Sample Date											
CH2M Hill	02/20/97	<.02	<.003	<.00050	0.04	<.01	<.00001	<.005	<.0002	<.005	0.0051	<.01
CH2M Hill	03/24/98	0.0152	<.002	<.00004	0.0637	<.0095	<.0017	<.0006	<.000015	<.0095	0.0046	0.1000
Appleton	04/29/98	<.011	<.002	<.005	0.2200	<.05	0.0020	<.1	<.0002	<.04	<.005	NA
Appleton	10/07/98	<.011	<.002	0.0050	0.1700	<.05	<.001	<.1	<.0002	<.04	0.0250	NA
MCO	03/18/99	<.009	<.003	<.00031	NA	.00068****	<.000032	<.0024	<.00005	.00351****	<.012	<.0036
Appleton	03/18/99	<.011	<.002	<.005	<0.05	<.05	0.0010	0.1000	<.00005	0.0400	0.0180	NA
Appleton	09/21/99	<.011	<.002	<.005	<.05	<.05	0.0030	<.1	<.00015	<.04	0.0080	NA
Appleton	02/15/00	<.015	<.0020	<.005	0.0900	<.05	<.001	<.1	<.00013	<.04	0.0280	NA
MCO	03/13/00	<.009	<.003	<.00031	0.1400	<.0006	<.0044	<.0024	<.00005	0.0012	<.012	NA
Appleton	02/21/01	<0.15	<.002	<.005	0.11	<.05	0.001	<.1	<.00013	<.04	0.042	NA
MCO	03/01/01	<.034	<.0027	.012****	0.25	.0088****	<.0033	<.17	<.00005	.036****	0.015	<.0036
Appleton	10/02/01	0.016	<.002	<.005	0.14	<.05	<.001	<.1	<.00013	<.04	0.065	NA
MCO	03/19/02	<.034	<.0027	<.0075	0.36	<.0077	<.0027	<.17	<.00005	<.017	<.012	<.0036
Appleton	05/02/02	<.049	<.012	<.014	0.362	<.015	<.0014	<.060	<.00011	<.011	<.009	NA
Appleton	11/12/02	0.027	<.0082	<.00053	0.23	<.009	<.0007	<.00084	<.000028	0.0044	0.0081	NA
Appleton	02/11/03	<0.027	<.0082	<.00053	0.086	<.0009	<.0014	<.0013	<.000028	0.0036	<.0025	NA
Appleton	03/24/03	<.045	<.0027	<.0088	0.13	0.075	<.0050	<.16	<.000050	<.019	<.0044	<.0036
Appleton	10/23/03	0.0045	0.0013	<0.0001	0.221	<0.0008	<0.005	<0.0006	0.0002	<0.025	<0.010	NA
Appleton	03/24/04	<0.050	<0.0026	<0.010	0.15	<0.0060	<0.0050	<0.16	<0.000025	<0.020	<0.010	NA
Appleton	11/09/04	0.0071	<0.0012	<0.0001	0.04	0.0008	<0.005	<0.008	<0.0002	0.0013	<0.01	NA
MCO	08/08/05	0.023	<0.0035	<0.0003	0.039	0.0019	<0.0037	<0.0011	<0.000026	<0.0044	0.0024	<0.005
Appleton	11/05/06	0.0052	<0.0012	<0.0001	0.088	<0.0005	<0.005	<0.0008	<0.0002	0.0017	<0.010	NA
Appleton	02/23/06	0.0021	<0.0012	<0.0001	0.08	<0.0005	<0.0005	<0.0008	<0.0002	0.0022	<0.010	NA
MCO	03/23/06	<0.20	<0.0076	<0.00074	0.32	0.0018	0.0043	<0.0034	<0.000026	0.0033	<0.020	NA
Appleton	06/27/06	<0.200	<0.0076	<0.00074	0.700	0.0016	<0.0094	<0.0034	<0.000072	0.0021	<0.020	<0.350
Appleton	10/05/06	0.037	<0.00011	<0.0001	4.575	0.0068	0.01	<0.001	<0.0002	0.0026	<0.010	NA
Appleton	03/22/07	<0.07	<0.07	<0.01	1.9	3.5	<0.004	<0.03	<0.0002	<0.04	<0.01	NA
MCO	04/02/07	0.0383	0.00024	0.000086	1.41	0.0041	<0.0094	0.00013	<0.00019	0.0035	0.009	NA
Appleton	12/04/07	<0.07	<0.001	<0.01	3.4	<0.01	0.008	<0.03	<0.0002	<0.04	<0.01	1.5
Appleton	01/16/08	0.21	<0.005	<0.01	<0.03	0.02	0.017	0.06	0.0003	<0.04	0.04	NA
OMNNI	04/08/08	0.0114	0.00043	0.00011	0.864	0.0043	0.014 J	0.000095 J	<0.0001	0.0024	0.0071	0.063

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
W-2	02/01/97	-		798.66
	05/01/97	-		801.01
	09/01/97	-		800.28
	12/01/97	-	804.66	797.69
	03/01/98	-		802.08
	06/01/98	-		799.38
	10/27/98	5.85		798.81
	02/08/99	4.50		800.16
	06/08/99	3.31		801.35
	09/13/99	5.78		798.88
	12/15/99	6.63		798.03
	03/13/00	1.60		803.06
	06/22/00	2.63		802.03
	09/27/00	3.28		801.38
	12/19/00	4.78		799.88
	03/01/01	5.93		798.73
	06/19/01	1.83		802.83
	09/24/01	5.94		798.72
	12/05/01	4.93		799.73
	03/19/02	1.08		803.58
	06/20/02	2.78		801.88
	09/18/02	6.38		798.28
	12/17/02	6.81		797.85
	03/24/03	4.31		800.35
	06/10/03	3.14		801.52
	09/10/03	6.11		798.55
	12/10/03	4.03		800.63
	03/24/04	1.26		803.40
	07/09/04	3.44		801.22
	09/21/04	6.79		797.87
	03/29/05	4.51		800.15
	06/20/05	4.83		799.83
	09/21/05	6.21		798.45
	12/14/05	5.51		799.15
	03/21/06	0.08		804.58
	06/28/06	6.02		798.64
	09/20/06	8.75		795.91
	12/09/06	6.20		798.46
	03/13/07	3.80		800.86
	07/03/07	6.16		798.50
	09/27/07	5.66		799.00
	04/16/08	5.91		798.75

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
W-8	02/01/97	-		797.22
	05/01/97	-		797.66
	09/01/97	-		798.01
	12/01/97	-	803.36	796.52
	03/01/98	-		798.16
	06/01/98	-		797.31
	10/27/98	6.41		796.95
	02/08/99	5.49		797.87
	06/08/99	4.38		798.98
	09/13/99	6.71		796.65
	12/15/99	6.91		796.45
	03/13/00	6.25		797.11
	06/22/00	6.42		797.34
	09/27/00	5.66		797.70
	12/19/00	6.80		796.56
	03/01/01	5.41		797.95
	06/19/01	5.02		798.34
	09/24/01	3.38		799.98
	12/05/01	7.02		796.34
	03/19/02	3.63		799.73
	06/20/02	5.66		797.70
	09/18/02	6.93		796.43
	12/17/02	9.00		794.36
	03/24/03	6.18		797.18
	06/10/03	6.11		797.25
	09/10/03	6.71		796.65
	12/10/03	6.62		796.74
	03/23/04	6.55		796.81
	07/09/04	6.11		797.25
	09/21/04	7.08		796.28
	03/29/05	6.24		797.12
	06/20/05	6.60		796.76
	09/21/05	6.84		796.52
	12/14/05	6.71		796.65
	03/21/06	6.57		796.79
	06/28/06	7.18		796.18
	09/20/06	7.07		796.29
	12/19/06	6.87		796.49
	03/13/07	6.48		796.88
	07/03/07	7.29		796.07
	09/27/07	6.52		796.84
	04/16/08	6.11		797.25

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
W-15	02/01/97	-		793.97
	05/01/97	-		796.92
	09/01/97	-		797.23
	12/01/97	-	803.76	795.52
	03/01/98	-		796.78
	06/01/98	-		796.32
	10/27/98	7.95		795.81
	02/08/99	9.19		794.57
	06/08/99	6.89		796.87
	09/13/99	7.85		795.91
	12/15/99	8.97		794.79
	03/13/00	7.80		795.96
	06/22/00	6.42		797.34
	09/27/00	6.30		797.46
	12/19/00	7.99		795.77
	03/01/01	9.52		794.24
	06/19/01	6.91		796.82
	09/24/01	6.65		797.11
	12/05/01	8.15		795.61
	03/19/02	7.22		796.54
	06/20/02	6.84		796.92
	09/18/02	7.28		796.48
	12/17/02	9.98		793.78
	03/24/03	9.77		793.99
	06/10/03	7.04		796.72
	09/10/03	7.06		796.70
	12/10/03	7.15		796.61
	03/23/04	6.58		797.18
	07/09/04	6.45	803.66 ****	797.21
	09/21/04	7.26		796.40
	03/29/05	7.50		796.16
	06/20/05	6.82		796.84
	09/21/05	7.05		796.61
	12/14/05	7.88		795.78
	03/21/06	6.95		796.71
	06/28/06	6.98	803.42 *****	796.44
	09/20/06	7.13		796.29
	12/19/06	8.02		795.40
	03/13/07	7.22		796.20
	07/03/07	7.00		796.42
	09/27/07	6.67		796.75
	04/16/08	-		-

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-101	02/01/97	-		797.16
	05/01/97	-		799.99
	09/01/97	-		798.67
	12/01/97	-	807.59	798.21
	03/01/98	-		803.43
	06/01/98	-		800.48
	10/27/98	10.26		797.33
	02/08/99	11.91		795.68
	06/08/99	9.79		797.80
	09/13/99	10.35		797.24
	12/15/99	9.01		798.58
	03/13/00	12.67		794.92
	06/22/00	6.28		801.31
	09/27/00	10.41		797.18
	12/19/00	10.73		796.86
	03/01/01	12.61		794.98
	06/19/01	8.43		799.16
	09/24/01	10.50		797.09
	12/05/01	10.98		796.61
	03/19/02	8.10		799.49
	06/20/02	7.08		800.51
	09/18/02	10.23		797.36
	12/17/02	12.47		795.12
	03/24/03	10.00		797.59
	06/10/03	7.41		800.18
	09/10/03	9.53		798.06
	12/10/03	8.31		799.28
	03/23/04	5.95		801.64
	07/09/04	7.84		799.75
	09/21/04	10.50		797.09
	03/29/05	9.00		798.59
	06/20/05	9.28		798.31
	09/21/05	9.64		797.95
	12/14/05	8.93		798.66
	03/21/06	8.10		799.49
	06/28/06	8.88		798.71
	09/20/06	8.90		798.69
	12/19/06	8.95		798.64
	03/13/07	8.73		798.86
	07/03/07	7.39		800.20
	09/27/07	7.31		800.28
	04/16/08	3.76		803.83

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-102	02/01/97	-		780.72
	05/01/97	-		780.89
	09/01/97	-		780.79
	12/01/97	-	804.45	780.95
	03/01/98	-		780.47
	06/01/98	-		780.72
	10/27/98	24.11		780.34
	02/08/99	23.84		780.61
	06/08/99	23.59		780.86
	09/13/99	23.70		780.75
	12/15/99	24.27		780.18
	03/13/00	24.00		780.45
	06/22/00	23.69		780.76
	09/27/00	23.65		780.80
	12/19/00	24.06		780.39
	03/01/01	26.01		778.44
	06/19/01	23.35		781.10
	09/24/01	23.88		780.57
	12/05/01	24.08		780.37
	03/19/02	23.75		780.70
	06/20/02	23.05		781.40
	09/18/02	24.50		779.95
	12/17/03	25.30		779.15
	03/24/03	23.80		780.65
	06/10/03	23.09		781.36
	09/10/03	23.98	804.37 ***	780.39
	12/10/03	23.22		781.15
	03/23/04	23.56		780.81
	07/09/04	23.52		780.85
	09/21/04	24.65		779.72
	03/29/04	21.24		783.13
	06/20/05	23.81		780.56
	09/21/05	24.71		779.66
	12/14/05	24.25		780.12
	03/21/06	23.39		780.98
	06/28/06	23.95		780.42
	09/20/06	25.15		779.22
	12/19/06	25.26		779.11
	03/13/07	24.41		779.96
	07/03/07	23.89		780.48
	09/27/07	24.38		779.99
	04/16/08	23.20		781.13

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-103	02/01/97	-		795.29
	05/01/97	-		791.83
	09/01/97	-		789.60
	12/01/97	-	803.74	787.78
	03/01/98	-		791.03
	06/01/98	-		789.13
	10/27/98	11.96		791.78
	02/08/99	10.24		793.50
	06/08/99	8.69		795.05
	09/13/99	9.79		793.95
	12/15/99	12.68		791.06
	03/13/00	9.63		794.07
	06/22/00	8.22		795.52
	09/27/00	7.76		795.98
	12/19/00	10.78		792.96
	03/01/01	9.15		794.59
	06/19/01	5.52		798.22
	09/24/01	9.80		793.94
	12/05/01	11.13		792.61
	03/19/02	4.96		798.78
	06/20/02	7.42		796.32
	09/18/02	9.00		794.74
	12/17/02	13.01		790.73
	03/24/03	7.63		796.11
	06/10/03	7.77		795.97
	09/10/03	9.60		794.14
	12/10/03	8.09		795.65
	03/23/04	4.01		797.73
	07/09/04	12.91		790.83
	09/21/04	10.30		793.44
	03/29/05	NR		---
	06/20/05	9.55		794.19
	09/21/05	9.70		794.04
	12/14/05	10.40		793.34
	03/21/06	7.87		795.87
	06/28/06	9.75		793.99
	09/20/06	11.23		792.51
	12/20/06	10.36		793.38
	03/13/07	9.91		793.83
	07/03/07	9.45		794.29
	09/27/07	9.52		794.22
	04/16/08	7.06		796.68

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-104	02/01/97	-		792.94
	05/01/97	-		789.91
	09/01/97	-		798.59
	12/01/97	-	807.28	795.70
	03/01/98	-		799.46
	06/01/98	-		796.60
	10/27/98	10.51		796.77
	02/08/99	9.04		798.24
	06/08/99	7.49		799.79
	09/13/99	10.28		797.00
	12/15/99	10.78		796.50
	03/13/00	9.51		797.77
	06/22/00	8.41		798.88
	09/27/00	8.61		798.67
	12/19/00	10.49		796.79
	03/01/01	8.44		798.84
	06/19/01	7.51		799.71
	09/24/01	10.39		796.89
	12/05/01	10.81		796.47
	03/19/02	7.82		799.46
	06/20/02	8.60		798.68
	09/18/02	12.05		795.23
	12/17/02	12.70		794.58
	03/24/03	12.60		794.68
	06/10/03	8.81		798.47
	09/10/03	11.17		796.11
	12/10/03	8.66		798.62
	03/23/04	7.44		799.84
	09/21/04	15.21		792.07
	03/29/05	11.09		796.19
	06/20/05	9.57		797.71
	09/21/05	18.95		788.33
	12/14/05	9.94		797.34
	03/21/06	8.53		798.75
	06/28/06	11.23		796.05
	09/20/06	12.81		794.47
	12/20/06	24.46		782.82
	03/13/07	12.11		795.17
	07/03/07	13.04		794.24
	09/27/07	21.47		785.81
	04/16/08	7.88		799.40

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-105	02/01/97	-		793.74
	05/01/97	-		800.60
	09/01/97	-		800.37
	12/01/97	-	803.96	799.03
	03/01/98	-		800.08
	06/01/98	-		800.50
	10/27/98	5.41		798.55
	02/08/99	6.46		797.50
	06/08/99	3.04		800.92
	09/13/99	4.60		799.36
	12/15/99	5.28		798.68
	03/13/00	4.97		798.99
	06/22/00	3.06		800.90
	09/27/00	3.38		800.58
	12/19/00	5.28		798.68
	03/01/01	7.24		796.72
	06/19/01	2.43		801.53
	09/24/01	3.87		800.09
	12/05/01	5.55		798.41
	03/19/02	3.94		800.02
	06/20/02	4.08		799.88
	09/18/02	5.40		798.56
	12/17/02	7.34		796.62
	03/24/03	6.81		797.15
	06/10/03	4.27		799.69
	09/10/03	4.88	803.84 ***	798.96
	12/10/03	4.36		799.24
	03/23/04	3.80		800.04
	07/09/04	3.61	803.74 ****	800.13
	09/21/04	4.92		798.82
	03/29/05	3.85		799.89
	06/20/05	4.15		799.59
	09/21/05	4.70		799.04
	12/14/05	5.25		798.49
	03/21/06	4.26		799.48
	06/28/06	4.81	803.54 *****	798.73
	09/20/06	4.51		799.03
	12/19/06	5.40		798.14
	03/13/07	6.46	803.46*****	797.08
	07/03/07	4.30		799.16
	09/27/07	3.81		799.65
	04/16/08	3.53		799.93

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-106	02/01/97	-		794.75
	05/01/97	-		797.23
	09/01/97	-		796.91
	12/01/97	-	804.08	795.48
	03/01/98	-		797.37
	06/01/98	-		796.76
	10/27/98	8.12		795.96
	02/08/99	9.75		794.33
	06/08/99	6.72		797.36
	09/13/99	7.88		796.20
	12/15/99	8.71		795.37
	03/13/00	8.72		795.36
	06/22/00	6.87		797.21
	09/27/00	7.41		796.67
	12/19/00	8.55		795.53
	03/01/01	9.54		794.54
	06/19/01	6.30		797.78
	09/24/01	7.57		796.51
	12/05/01	8.72		795.36
	03/19/02	7.64		796.44
	06/20/02	7.21		796.87
	09/18/02	7.88		796.20
	12/17/02	10.49		793.59
	03/24/03	9.98		794.10
	06/10/03	7.54		796.54
	09/10/03	7.35	804.00 ***	796.65
	12/10/03	7.18		796.82
	03/23/04	7.54		796.46
	07/09/04	6.48	803.90 ****	797.42
	09/21/04	8.02		795.88
	03/29/05	8.26		795.64
	06/20/05	7.31		796.59
	09/21/05	7.85		796.05
	12/14/05	8.47		795.43
	03/21/06	7.41		796.49
	06/28/06	7.78	803.83 *****	796.05
	09/20/06	7.90		795.93
	12/19/06	8.39		795.44
	03/13/07	9.08		794.75
	07/03/07	7.35		796.48
	09/27/07	6.92		796.91
	04/16/08	5.65		798.18

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-107	02/01/97	-		788.23
	05/01/97	-		796.60
	09/01/97	-		797.64
	12/01/97	-	809.01	796.49
	03/01/98	-		796.68
	06/01/98	-		796.31
	10/27/98	10.71		798.30
	02/08/99	11.11		797.90
	06/08/99	11.04		797.97
	09/13/99	11.55		797.46
	12/15/99	11.66		797.35
	03/13/00	11.13		797.88
	06/22/00	10.69		798.32
	09/27/00	12.36		796.65
	12/19/00	7.32		799.29
	03/01/01 *	-		-
	06/19/01	10.10	809.06 **	798.96
	09/24/01	11.23		797.88
	12/05/01	11.59		797.47
	03/19/02	9.79		799.27
	06/20/02	10.18		798.88
	09/18/02	11.16		797.90
	12/17/02	12.11		796.95
	03/24/03	12.46		796.60
	06/10/03	10.40		798.66
	09/10/03	11.34		797.72
	12/10/03	10.88		798.18
	03/23/04	9.04		800.02
	07/09/04	11.53		797.53
	09/21/04	12.55		796.51
	03/29/05	10.48		798.58
	06/20/05	11.14		797.92
	09/21/05	11.69		797.37
	12/14/05	11.10		797.96
	03/21/06	10.09		798.97
	06/28/06	11.69		797.37
	09/20/06	12.14		796.92
	12/19/06	11.45		797.61
	03/13/07	10.95		798.11
	07/03/07	11.34		797.72
	09/27/07	10.86		798.20
	04/16/08	8.92		800.14

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-108	02/01/97	-		798.36
	05/01/97	-		793.32
	09/01/97	-		790.53
	12/01/97	-	806.61	788.65
	03/01/98	-		795.59
	06/01/98	-		789.30
	10/27/98	6.98		799.63
	02/08/99	6.72		799.89
	06/08/99	5.80		800.81
	09/13/99	6.68		799.93
	12/15/99	6.87		799.74
	03/13/00	6.84		799.77
	06/22/00	6.28		800.33
	09/27/00	6.31		800.30
	12/19/00	11.42		797.59
	03/01/01	7.04		799.57
	06/19/01	5.87		800.74
	09/24/01	6.52		800.09
	12/05/01	7.70		798.91
	03/19/02	6.25		800.36
	06/20/02	6.43		800.18
	09/18/02	6.72		799.89
	12/17/02	7.78		798.83
	03/24/03	8.69		797.96
	06/10/03	7.00		799.61
	09/10/03	6.91		799.70
	12/10/03	5.18		801.43
	03/23/04	6.24		800.37
	07/09/04	6.12		800.49
	09/21/04	6.91		799.70
	03/29/05	6.64		799.97
	06/20/05	6.78		799.83
	09/21/05	6.66		799.95
	12/14/05	6.68		799.93
	03/21/06	6.71		799.90
	06/28/06	6.82		799.79
	09/20/06	6.75		799.86
	12/19/06	6.90		799.71
	03/13/07	6.75		799.86
	07/03/07	7.53		799.08
	09/27/07	6.55		800.06
	04/16/08	1.27		805.34

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-109	06/21/06	8.98	810.52	801.54
	09/20/06	8.90		801.62
	12/19/06	9.68		800.84
	03/13/07	9.32		801.20
	07/03/07	9.11		801.41
	09/27/07	8.08		802.44
	04/16/08	7.68		802.84
MW-110	06/21/06	10.39	809.81	799.42
	09/20/06	11.09		798.72
	12/19/06	11.06		798.75
	03/13/07	11.04		798.77
	07/03/07	10.60		799.21
	09/27/07	10.33		799.48
	04/16/08	8.31		801.50
MW-111	06/21/06	10.69	807.59	796.90
	09/20/06	13.45		794.14
	12/19/06	14.97		792.62
	03/13/07	9.63		797.96
	07/03/07	9.00		798.59
	09/27/07	8.66		798.93
	04/16/08	5.46		802.13
MW-112	06/21/06	15.70	808.14	792.44
	09/20/06	10.75		797.39
	12/19/06	11.93		796.21
	03/13/07	10.23		797.91
	07/03/07	8.91		799.23
	09/27/07	9.01		799.13
	04/16/08	6.57		801.57
MW-113	06/21/06	19.69	808.24	798.55
	09/20/06	10.27		797.97
	12/19/06	10.03		798.21
	03/13/07	8.93		799.31
	07/03/07	9.75		798.49
	09/27/07	9.67		798.57
	04/16/08	7.03		801.21
PZ-05	07/19/05	37.39	810.88	773.49
	09/21/05	28.56		782.32
	12/19/06	27.98		782.90
	03/13/07	28.61		782.27
	07/03/07	28.00		782.88
	09/27/07	28.06		782.82
	04/16/08	27.83		810.88

Table 3- Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
PZ-06	07/19/05	36.31	809.77	773.46
	09/21/05	29.79		779.98
	12/19/06	29.49		780.28
	03/13/07	29.93		779.84
	07/03/07	30.03		779.74
	09/27/07	29.54		780.23
	04/16/08	28.97		809.77
PZ-07	07/19/05	32.03	804.48	772.45
	09/21/05	27.34		777.14
	12/19/06	29.37		775.11
	03/13/07	24.41		780.07
	07/03/07	23.74		780.74
	09/27/07	25.15		779.33
	04/16/08	23.83		804.48
PZ-08	07/19/05	32.07	804.35	772.28
	09/21/05	24.47		779.88
	12/19/06	28.16		776.19
	03/13/07	21.90		782.45
	07/03/07	23.19		781.16
	09/27/07	22.47		781.88
	04/16/08	21.00		804.35

* Casing for MW-107 was damaged. Groundwater elevation could not be determined.

** Reflects new elevation of MW-107 after repair to well casing.

*** Monitoring wells re-surveyed after casings were shortened.

**** New elevation after the PVC casing was shortened after the March 23, 2004 sampling event.

***** New elevation after the PVC casing was shortened after the March 21, 2006 sampling event.

*****New elevation after PVC casing was shortened after the December 19, 2006 sampling event.

Note: Omni Associates, Inc. collected water level readings from MW-109 to MW-113 on June 21, 2006 and September 20, 2006 and from PZ-5 to PZ-8 on July 19, 2005 and September 21, 2005.

Table 4 - Groundwater Geochemical Parameters
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-102	02/20/97	NR	8.00	10.50	700 us	NA	NA	NA	NA
	05/27/97	NR	7.47	10.50	NA	NA	NA	NA	NA
	09/18/97	NR	6.99	13.00	810 us	NA	NA	NA	NA
	12/12/97	NR	7.23	8.50	690 us	NA	NA	NA	NA
	03/25/98	NR	7.68	10.20	1145 us	NA	NA	NA	NA
	06/10/98	NR	6.97	10.30	1046 us	NA	NA	NA	NA
	10/27/98	2.00	8.07	13.00	1197 us	1.50	103.00	17.60	0.40
	02/09/99	0.50	7.48	11.00	1164 us	1.00	0.33	14.40	0.00
	06/08/99	0.50	7.89	18.60	1226 us	1.00	151.00	4.80	0.80
	09/13/99	0.50	7.84	13.30	1208 us	1.20	(246.00)	10.00	1.20
	12/15/99	0.50	7.78	9.00	1152 us	1.60	(288.00)	10.80	1.00
	03/13/00	0.50	6.74	9.70	1096 us	1.20	(260.00)	6.80	0.00
	06/22/00	0.50	8.01	12.30	1233 us	0.53	(13.00)	6.00	0.00
	09/27/00	0.50	8.25	12.50	1182 us	1.90	(241.00)	9.20	0.00
	12/19/00	0.50	7.59	8.70	1126 us	1.27	(454.00)	11.60	0.00
	03/01/01	0.50	7.30	10.90	1321 us	1.02	(521.00)	9.20	0.00
	06/19/01	0.50	8.64	13.20	1944 us	0.60	35.00	6.40	0.00
	09/24/01	0.50	7.63	13.40	1622 us	0.80	18.00	7.20	0.00
	12/05/01	0.50	7.59	9.40	1233 us	0.80	(110.00)	12.40	0.00
	03/19/02	0.50	7.41	10.80	1143 us	0.90	(503.00)	9.20	0.50
	06/20/02	0.50	8.18	13.80	1720 us	0.40	4.00	9.60	0.00
	09/18/02	0.50	7.04	13.50	1318 us	1.00	(212.00)	10.80	1.00
	12/17/02	0.50	7.55	10.00	1186 us	0.60	(94.00)	11.20	0.00
	03/24/03	0.50	7.38	10.40	972 us	0.40	(621.00)	8.40	0.00
	06/10/03	0.50	8.01	13.80	1530 us	0.40	(18.00)	8.60	0.00
	09/10/03	0.50	7.10	14.00	1313 us	0.80	(211.00)	8.00	0.80
	03/24/04	2.70	7.20	12.80	1112 us	EM	(26.00)	NA	0.00
	03/29/05	3.00	7.10	12.70	1199 us	2.71	85.00	NA	0.00
	03/23/06	2.00	7.50	9.20	1234 us	5.06	283.00	NA	0.00
	03/27/07	2.0	7.2	12.5	1093 us	1.73	86	NA	0.29
	04/16/08	1.0	7.10	14.1	NA	2.64	179.9	NA	NA

Table 4 - Groundwater Geochemical Parameters
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-103	02/20/97	NR	6.30	6.00	700 us	NA	NA	NA	NA
	05/27/97	NR	7.67	11.60	NA	NA	NA	NA	NA
	09/18/97	NR	7.21	10.50	1030 us	NA	NA	NA	NA
	12/12/97	NR	7.43	9.00	970 us	NA	NA	NA	NA
	03/25/98	NR	7.82	9.40	1441 us	NA	NA	NA	NA
	06/10/98	NR	6.24	9.90	1356 us	NA	NA	NA	NA
	10/27/98	8.00	7.66	12.70	1566 us	0.70	147.00	12.00	0.20
	02/09/99	7.80	7.48	9.90	1443 us	1.40	53.00	11.20	0.80
	06/08/99	9.50	7.42	13.90	1350 us	0.70	109.00	7.20	0.00
	09/13/99	4.10	7.41	12.90	985 us	1.60	(165.00)	12.00	0.00
	12/15/99	4.60	7.82	10.60	2.58 ms	1.40	(294.00)	10.80	0.00
	03/13/00	4.00	6.57	9.40	1292 us	1.00	76.00	8.40	0.40
	06/22/00	4.00	8.43	11.50	1354 us	0.99	(90.00)	6.00	0.00
	09/27/00	11.00	7.48	13.70	1131 us	1.40	(302.00)	7.60	0.00
	12/19/00	9.00	7.90	6.60	1063 us	1.56	(344.00)	9.20	0.40
	03/01/01	8.50	7.68	11.20	1160 us	1.88	(374.00)	8.00	0.60
	06/19/01	13.00	7.81	14.10	1848 us	1.10	(28.00)	7.40	0.00
	09/24/01	2.00	7.32	12.70	1743 us	1.00	(47.00)	12.00	0.00
	12/05/01	11.00	7.18	9.00	1121 us	1.40	(291.00)	10.80	0.60
	03/19/02	11.00	7.60	11.40	1050 us	1.50	(311.00)	10.00	0.40
	06/20/02	12.00	7.47	14.40	1830 us	0.80	(62.00)	10.80	0.00
	09/18/02	10.00	7.18	13.00	748 us	1.40	(170.00)	11.20	0.00
	12/17/02	8.00	7.22	9.60	1134 us	1.20	(284.00)	10.00	0.40
	03/24/03	11.00	7.54	11.00	1262 us	1.20	(320.00)	10.00	0.60
	06/10/03	10.00	7.13	14.10	1644 us	0.60	(80.00)	10.00	0.20
	09/10/03	10.00	7.14	13.20	920 us	1.00	(165.00)	10.40	0.00
	12/10/03	10.00	7.28	10.40	1210 us	0.80	(310.00)	7.80	0.20
	03/24/04	8.60	7.30	10.20	656 us	EM	(126.00)	NA	0.00
	07/09/04	5.00	7.20	14.00	996 us	16.30	283.00	NA	0.00
	09/21/04	1.50	7.10	20.10	1004 us	EM	(19.00)	NA	0.00
	03/29/05	12.00	7.00	10.20	1164 us	1.16	84.00	NA	0.00
	06/21/05	7.00	7.10	13.30	1253 us	1.46	142.00	NA	0.00
	09/21/05	10.00	7.30	13.50	1233 us	3.40	225.00	NA	0.00
	12/14/05	7.00	7.20	9.90	1295 us	1.53	NA	NA	0.00
	03.23/06	7.00	7.00	11.50	1140 us	230.00	252.00	NA	0.00
	06/28/06	5.00	7.10	11.80	746 us	2.75	232.00	NA	0.00
	12/20/06	8.00	7.40	10.80	1207 us	2.89	241.00	NA	0.23
	03/28/07	8.0	7.2	10.8	1075 us	3.09	238.0	NA	0.05
	07/03/07	8.0	7.4	11.3	1154 us	3.54	126.0	NA	0.38
	09/28/07	8.0	7.2	13.7	1294 us	3.14	217.0	NA	0.00
	04/16/08	1.0	7.09	12.0	556 us	0.83	233	NA	NA

Table 4 - Groundwater Geochemical Parameters
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-104	02/20/97	NR	7.43	8.00	1000 us	NA	NA	NA	NA
	05/27/97	NR	8.00	12.00	NA	NA	NA	NA	NA
	09/18/97	NR	7.13	10.50	1030 us	NA	NA	NA	NA
	12/12/97	NR	7.10	9.60	1000 us	NA	NA	NA	NA
	03/25/98	NR	7.94	8.30	1378 us	NA	NA	NA	NA
	06/10/98	NR	6.53	9.70	1101 us	NA	NA	NA	NA
	10/27/98	8.00	7.84	13.20	1272 us	0.90	103.00	16.40	0.40
	02/09/99	9.50	7.66	10.10	1126 us	1.50	193.00	11.20	0.00
	06/08/99	13.00	6.80	15.60	1259 us	1.60	103.00	6.40	0.00
	09/13/99	13.80	7.08	13.90	1334 us	1.80	(146.00)	10.80	0.00
	12/15/99	11.20	7.68	10.80	1172 us	2.00	(232.00)	11.20	0.00
	03/13/00	16.50	6.91	10.20	1121 us	0.40	69.00	11.20	0.60
	06/22/00	11.00	8.65	11.60	1137 us	0.71	(211.00)	6.80	0.00
	09/27/00	8.00	7.24	12.90	1130 us	1.70	(123.00)	13.20	0.00
	12/19/00	8.00	7.75	8.20	1144 us	1.05	(240.00)	12.40	0.00
	03/01/01	9.50	7.72	10.60	1230 us	0.90	(220.00)	12.40	0.20
	06/19/01	13.00	7.91	12.90	1581 us	0.80	(110.00)	6.80	0.00
	09/24/01	8.00	7.18	12.40	1580 us	0.80	(99.00)	9.60	0.20
	12/05/01	7.00	7.22	9.90	1300 us	1.00	(311.00)	9.60	0.00
	03/19/02	10.00	7.70	10.60	1110 us	0.70	(210.00)	11.60	0.20
	06/20/02	10.00	7.53	13.00	1420 us	0.80	(174.00)	12.40	0.20
	09/18/02	9.00	7.03	14.60	1275 us	1.60	(148.00)	12.40	0.00
	12/17/02	8.00	7.31	10.00	1264 us	0.80	(294.00)	8.80	0.00
	03/24/03	8.00	7.61	10.40	1031 us	0.80	(240.00)	10.80	0.00
	06/10/03	10.00	7.40	15.00	1374 us	0.60	(91.00)	11.20	0.40
	09/10/03	9.00	7.08	14.20	1144 us	1.20	(151.00)	8.80	0.00
	12/01/03	8.00	7.35	10.10	1177 us	0.80	(280.00)	8.80	0.00
	03/24/04	13.60	7.30	9.90	1496 us	EM	(91.00)	NA	0.00
	07/09/04	5.00	7.00	12.00	1648 us	2.90	EM	NA	0.00
	09/21/04	1.00	7.00	13.10	1648 us	EM	1.00	NA	0.00
	03/29/05	6.00	7.00	10.20	1939 us	2.69	86.00	NA	0.00
	06/21/05	7.00	7.10	12.50	1999 us	3.50	125.00	NA	0.00
	09/21/05	7.00	7.10	13.80	1926 us	2.78	213.00	NA	0.00
	12/14/05	7.00	6.90	10.90	2320 us	2.11	253.00	NA	NA **
	03/23/06	10.00	6.90	10.60	2250 us	1.73	209.00	NA	0.00
	06/28/06	5.00	6.80	11.30	2290 us	1.40	215.00	NA	0.26
	12/20/06	8.00	7.10	11.90	2120 us	2.08	248.00	NA	0.00
	03/28/07	8.0	6.9	10.1	2450 us	3.80	226.0	NA	0.07
	07/03/07	6.0	7.1	11.5	2180 us	1.51	247.0	NA	0.61
	09/28/07	6.0	6.9	14.7	2380 us	2.22	266.0	NA	0.05
	04/16/08	1.0	6.96	13.9	853 us	1.74	157.0	NA	NA

Table 4 - Groundwater Geochemical Parameters
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-107	02/20/97	NR	7.46	9.00	650 us	NA	NA	NA	NA
	05/27/97	NR	7.12	10.80	NA	NA	NA	NA	NA
	09/18/97	NR	7.07	12.50	700 us	NA	NA	NA	NA
	12/12/97	NR	7.08	10.50	730 us	NA	NA	NA	NA
	03/25/98	NR	7.87	10.20	1081 us	NA	NA	NA	NA
	06/10/98	NR	7.17	10.60	1042 us	NA	NA	NA	NA
	10/27/98	10.00	7.41	12.10	1179 us	1.10	62.00	20.00	10.00
	02/09/99	9.00	8.10	12.00	1189 us	1.30	263.00	7.20	0.40
	06/08/99	9.00	7.48	15.60	1406 us	2.20	163.00	4.80	0.40
	09/13/99	8.00	7.30	12.90	1301 us	2.60	(114.00)	14.00	0.60
	12/15/99	10.00	7.63	11.30	1419 us	2.80	(42.00)	12.40	1.00
	03/13/00	14.50	5.76	10.90	1389 us	1.20	58.00	8.40	0.60
	06/22/00	10.00	8.75	12.40	1574 us	0.62	(120.00)	6.40	0.00
	09/27/00	10.00	7.42	14.20	1505 us	1.60	(114.00)	9.20	0.00
	12/19/00	13.00	7.69	9.50	1524 us	1.21	(38.00)	10.40	0.00
	03/01/01	16.00	7.81	9.90	1704 us	1.31	(93.00)	12.40	0.20
	06/19/01	15.00	7.64	13.40	1221 us	0.80	(80.00)	6.00	0.20
	09/24/01	9.00	7.04	12.40	977 us	0.60	(77.00)	12.00	0.40
	12/05/01	13.00	7.15	9.20	1611 us	0.80	(95.00)	8.40	0.00
	03/19/02	12.00	7.64	10.00	1730 us	1.30	8.00	9.60	0.20
	06/20/02	10.00	7.48	13.60	1304 us	0.60	(110.00)	9.60	0.40
	09/10/02	10.00	7.52	13.10	1403 us	2.00	(104.00)	12.40	0.40
	12/17/02	10.00	7.22	10.40	1593 us	0.80	(110.00)	7.80	0.00
	03/24/03	10.00	7.30	10.30	1362 us	1.00	(48.00)	10.80	0.00
	06/10/03	11.00	7.20	14.00	1277 us	0.80	(200.00)	9.20	1.00
	09/10/03	10.00	7.46	13.30	1121 us	1.30	(99.00)	8.00	0.20
	12/01/03	10.00	7.41	9.80	1360 us	1.00	(98.00)	8.40	0.00
	03/24/04	9.00	7.30	11.10	1704 us	EM	(109.00)	NA	0.00
	07/09/04	6.00	7.30	13.20	1704 us	4.59	166.00	NA	0.00
	09/21/04	3.00	7.10	14.30	1649 us	EM	7.00	NA	0.00
	03/29/05	9.00	7.20	11.50	1749 us	2.83	85.00	NA	0.00
	06/21/05	8.00	7.30	12.70	2010 us	1.85	119.00	NA	0.00
	09/21/05	8.00	7.50	15.20	1594 us	2.92	221.00	NA	0.00
	12/14/05	8.00	7.40	12.30	1708 us	1.80	250.00	NA	0.00
	03/27/06	10.00	7.30	11.90	1726 us	2.65	269.00	NA	0.00
	06/28/06	7.00	7.20	13.40	1696 us	3.76	212.00	NA	0.04
	12/20/06	8.00	7.20	11.80	1655 us	3.83	234.00	NA	0.08
	03/28/07	8.0	7.3	10.4	1599 us	7.14	240	NA	0.01
	07/03/07	7.0	7.5	11.8	1163 us	3.41	258	NA	0.00
	09/28/07	6.0	7.4	13.1	1642 us	2.64	238	NA	0.02
	04/16/08	1.0	7.30	13.5	NA	2.12	197.9	NA	NA

Table 4 - Groundwater Geochemical Parameters
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-109	06/21/06	2.00	6.42	14.80	1497 us	-	-	-	-
	09/20/06	2.00	6.66	14.60	1429 us	-	-	-	-
	12/20/06	8.00	7.10	11.00	2120 us	2.39	213.00	NA	0.16
	03/29/07	10.0	6.9	9.6	2050 us	7.71	284	NA	***
	07/03/07	9.0	7.2	12.8	2350 us	1.53	192	NA	0.04
	09/28/07	10.0	6.9	18.2	2170 us	9.53	240	NA	0.04
	04/16/08	1.25	7.10	12.4	NA	0.75	248	NA	NA
MW-110	06/21/06	2.00	6.91	12.70	1178 us	-	-	-	-
	09/20/06	2.00	7.00	14.40	1248 us	-	-	-	-
	12/20/06	10.00	7.20	10.60	1757 us	2.07	234.00	NA	0.00
	03/29/07	10.0	7.2	8.1	1806 us	7.03	255	NA	0.03
	07/03/07	8.0	8.3	12.1	1752 us	2.96	227	NA	0.13
	09/28/07	11.0	7.2	15.6	1837 us	5.72	258	NA	0.00
	04/16/08	1.25	7.38	9.5	NA	2.25	285	NA	NA
MW-111	06/21/06	2.00	7.01	12.40	1311 us	-	-	-	-
	09/20/06	1.75	6.99	14.00	1164 us	-	-	-	-
	12/20/06	6.00	7.20	11.00	1478 us	3.95	243.00	NA	0.01
	03/29/07	10.0	7.4	9.2	1908 us	9.29	209	NA	0.01
	07/03/07	6.0	7.4	12.1	1855 us	1.63	263	NA	0.28
	09/28/07	11.0	7.4	13.5	1672 us	6.08	256	NA	0.02
	04/16/08	1.25	7.40	11.6	NA	2.25	244	NA	NA
MW-112	06/21/06	2.00	7.21	12.40	1338 us	-	-	-	-
	09/20/06	2.00	7.28	14.60	1238 us	-	-	-	-
	12/20/06	8.00	7.50	10.70	1817 us	1.94	729.00	NA	0.00
	03/28/07	10.0	7.5	9.5	2050 us	7.93	228	NA	0.00
	07/03/07	9.0	7.6	13.7	1909 us	3.48	234	NA	0.28
	09/28/07	11.0	7.6	13.7	1921 us	6.80	267	NA	0.04
	04/16/08	1.25	7.50	12.9	NA	2.44	270	NA	NA
MW-113	06/21/06	2.00	6.91	12.90	1020 us	-	-	-	-
	09/20/06	2.00	7.11	14.60	900 us	-	-	-	-
	12/20/06	8.00	7.20	10.60	1757 us	2.07	234.00	NA	0.00
	03/29/07	10.0	7.3	8.0	1508 us	9.52	235	NA	***
	07/03/07	7.0	7.6	10.9	1552 us	2.05	262	NA	0.13
	09/28/07	13.0	7.4	14.4	1514 us	6.87	276	NA	0.00
	04/16/08	1.25	7.45	11.8	NA	1.85	267	NA	NA

Table 4 - Groundwater Geochemical Parameters

N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
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ppm = parts per million

us = microsiemens / centimeter

mV = millivolts

gpg = grains per gallon

EM - Equipment malfunction.

Note: A different meter was used to test ferrous iron beginning on the March 2006 sampling event.

ms = millisiemens / centimeter

NA = not analyzed

NR = not recorded

() = Indicates a negative value.

* = Each monitoring well was purged dry twice prior to sampling

The second purging was conducted approximately 3-hrs after initial purging. The volume of purge water collected represents the total of the two well purges. Purge volumes prior to 10/27/98 were not available.

** = Not analyzed due to poor water clarity from recent piezometer installation nearby.

*** = Too cloudy for testing.

Table 5 - Groundwater Analytical Results / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
W-2	02/20/97	NA	15	NA	26	NA	460.0	NA	49
	05/27/97	0.43	8.5	NA	<10	NA	170.0	<.2	30
	09/18/97	0.27	4.5**	NA	9.5**	3**	116.0	<.03	16.9
	12/12/97	.13*	6.2	NA	<9.7	<.8	133.0	.06*	20.4
	03/25/98	0.08	<3.9	NA	<9.5	<1.7	83.8	.007*	18.6
	06/10/98	.31*	16.4	NA	18.6**	<1.7	466.0	.027*	40.8
	10/27/98	.51*	3.60	NA	4.7*	<.0032	69.0	<.05	170
	02/09/99	.46*	<.62	NA	4.0	<.0032	240.0	<.05	23
	06/08/99	<.31	<.62	NA	1.8*	<.0032	290.0	<.05	<12
	09/13/99	<.31	2.00	NA	3.2	<.0032	240.0	<.05	<12
	12/15/99	<.31	.72 *	NA	NA	NA	2.8	NA	NA
	03/13/00	<.31	.79 *	NA	NA	NA	7.8	NA	NA
	06/22/00	<.31	<.62	NA	NA	NA	<.42	NA	NA
	09/27/00	2.70	1.1*	NA	NA	NA	17.0	NA	NA
	12/19/00	.24*	.91*	NA	NA	NA	8.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	<.20	NA	NA
	06/19/01	<.17	.55 *	NA	NA	NA	48.0	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	52	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	<.20	NA	NA
	03/19/02	.27*	<.57	NA	NA	NA	<.20	NA	NA
06/20/02	<.23	<.44	NA	NA	NA	61.0	NA	NA	
09/18/02	<.23	<.44	NA	NA	NA	110.0	NA	NA	
12/17/02	<.23	<.44	NA	NA	NA	150.0	NA	NA	
03/24/03	<.17	<.43	NA	NA	NA	8.5	NA	NA	
03/24/04	NA	<.45	5.0	NA	NA	<.10	NA	NA	
03/29/05	NA	1.2	<.27	NA	NA	1.3	NA	NA	
03/23/06	NA	0.52	<.50	NA	NA	4.1	NA	NA	
03/27/07	NA	<.19	NA	NA	NA	4.7	NA	NA	
W-8	02/20/97	NA	17	NA	22	NA	320.0	NA	34
	05/27/97	1.6	37	NA	27	NA	670.0	<.2	54
	09/18/97	0.45	14.4	NA	14.6**	1**	338.0	.11**	31.8
	12/12/97	0.5*	5.7	NA	<9.7	<.8	147.0	.07*	17.1
	03/25/98	0.43	10.1	NA	15**	<1.7	205.0	.007*	21
	06/10/98	0.54	9.9	NA	12.6**	<1.7	264.0	.016*	21.6
	10/27/98	0.80	3.90	NA	4.8*	<.0032	64.0	<.05	85
	02/09/99	<.31	<.62	NA	<.60	<.0032	850.0	<.05	12
	06/08/99	<.31	<.62	NA	2.6	<.0032	50.0	<.05	<12
	09/13/99	<.31	1.90	NA	2.7	<.0032	98.0	<.05	29
	12/15/99	<.31	2.80	NA	NA	NA	180.0	NA	NA
	03/13/00	<.31	1.4 *	NA	NA	NA	65.0	NA	NA
	06/22/00	<.31	3.10	NA	NA	NA	74.0	NA	NA
	09/27/00	.27*	.75*	NA	NA	NA	26.0	NA	NA
	12/19/00	<.23	.66*	NA	NA	NA	40.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	23.0	NA	NA
	06/19/01	<.17	1 *	NA	NA	NA	100.0	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	380.0	NA	NA
	12/25/01	<.23	<.57	NA	NA	NA	<.20	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	21.0	NA	NA
06/20/02	<.23	.47*	NA	NA	NA	1400.0	NA	NA	
09/18/02	<.23	<.44	NA	NA	NA	620.0	NA	NA	
12/17/02	<.23	<.44	NA	NA	NA	34.0	NA	NA	
03/24/03	<.17	<.43	NA	NA	NA	27.0	NA	NA	
03/24/04	NA	0.76*	3.8	NA	NA	1.7*	NA	NA	
03/29/05	NA	<.52	<.27	NA	NA	9.7	NA	NA	
03/23/06	NA	<.4	<.50	NA	NA	5.5	NA	NA	
03/27/07	NA	<.19	NA	NA	NA	6.0	NA	NA	

Table 5 - Groundwater Analytical Results / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
W-15	02/20/97	NA	32	NA	52	NA	430.0	NA	88
	05/27/97	0.27	5.9	NA	15	NA	97.0	<.2	39
	09/18/97	0.31	13.9	NA	18.8**	<.78	325.0	<.03	35.5
	12/12/97	.12*	5.7	NA	9.7**	<.8	80.9	.03*	18.5
	03/25/98	.04*	<3.9	NA	<9.5	<1.7	85.7	.038*	13.7
	06/10/98	.11*	10	NA	13.2**	<1.7	147.0	.016*	18.8
	10/27/98	.41*	6.80	NA	7.40	<.0032	110.0	<.05	100
	02/09/99	<.31	<.62	NA	<.60	<.0032	320.0	<.05	<12
	06/08/99	<.31	2.40	NA	14.00	<.0032	130.0	<.05	66
	09/13/99	<.31	5.30	NA	6.40	<.0032	130.0	<.05	16
	12/15/99	<.31	5.00	NA	NA	NA	90.0	NA	NA
	03/13/00	<.31	7.00	NA	NA	NA	130.0	NA	NA
	06/22/00	<.31	1.80	NA	NA	NA	11.0	NA	NA
	09/27/00	<.23	4.20	NA	NA	NA	24.0	NA	NA
	12/19/00	<.23	1.4*	NA	NA	NA	930.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	06/19/01	<.17	<.34	NA	NA	NA	<2	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	290.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	2.5	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	22.0	NA	NA
	06/20/02	.36*	.47*	NA	NA	NA	3.1	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	110.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	31.0	NA	NA
03/24/03	<0.17	0.47*	NA	NA	NA	27.0	NA	NA	
03/24/04	NA	1.80	3.8	NA	NA	1.1*	NA	NA	
03/29/05	NA	0.98	<2.7	NA	NA	24.0	NA	NA	
03/23/06	NA	1.60	<5.0	NA	NA	8.0	NA	NA	
03/28/07	NA	<1.9	NA	NA	NA	13	NA	NA	
MW-101	02/20/97	NA	36	NA	41	NA	820.0	NA	49
	05/27/97	<.2	10	NA	11	NA	170.0	<.03	18
	09/18/97	.06**	11.9	NA	10.7**	1**	145.0	<.05	18.2
	12/12/97	.06*	12.8	NA	<9.7	<.8	176.0	.05*	20.7
	03/25/98	.04*	20.9	NA	21.6**	<1.7	239.0	.007*	32.7
	06/10/98	.27*	48.2	NA	46.8	<1.7	604.0	.044*	75.9
	10/27/98	<.16	3.20	NA	4.2*	<.0032	24.0	<.05	54
	02/09/99	<.31	<.62	NA	<.60	<.0032	1900.0	<.05	14
	06/08/99	<.31	1.80	NA	8.2	<.0032	380.0	<.05	39
	09/13/99	<.31	2.90	NA	5.1	<.0032	31.0	<.05	<12
	12/15/99	<.31	2.50	NA	NA	NA	9.1	NA	NA
	03/13/00	<.31	2.30	NA	NA	NA	100.0	NA	NA
	06/22/00	<.31	1.4 *	NA	NA	NA	<4.2	NA	NA
	09/27/00	<.23	19.00	NA	NA	NA	37.0	NA	NA
	12/19/00	<.23	7.20	NA	NA	NA	18.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	13.0	NA	NA
	06/19/01	<.17	8.50	NA	NA	NA	9.1	NA	NA
	09/24/01	<.17	.55 *	NA	NA	NA	<2.0	NA	NA
	12/05/01	<.23	.90*	NA	NA	NA	<2.0	NA	NA
	03/19/02	<.23	.66*	NA	NA	NA	<2.0	NA	NA
	06/20/02	<.23	.58*	NA	NA	NA	2.2	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	13.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	33.0	NA	NA
03/24/03	<.17	.50*	NA	NA	NA	8.3	NA	NA	
03/24/04	NA	0.79*	<3.6	NA	NA	<1.0	NA	NA	
03/29/05	NA	1.10	<2.7	NA	NA	16.0	NA	NA	
03/23/06	NA	0.55	<5.0	NA	NA	45.0	NA	NA	
03/27/07	NA	<1.9	NA	NA	NA	14.0	NA	NA	
04/16/08	NA	2.4 J	NA	NA	NA	NA	NA	NA	

Table 5 - Groundwater Analytical Results / Selected Metals
 N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
MW-102	02/20/97	NA	26	NA	38	NA	570.0	NA	34
	05/27/97	0.21	48	NA	77	NA	920.0	<.2	73
	09/18/97	.08**	<3.92	NA	6.9**	2**	302.0	<.03	8.7
	12/12/97	.04*	<3.9	NA	<9.7	<.8	387.0	.04*	10.9
	03/25/98	.11*	<3.9	NA	9.5**	<1.7	302.0	.007*	7.4*
	06/10/98	.04*	<3.9	NA	<9.8	<1.7	318.0	.018*	9.5
	10/27/98	.27*	.98*	NA	3.2*	<.0032	340.0	<.05	24
	02/09/99	<.31	.73*	NA	<.60	<.0032	670.0	<.05	20
	06/08/99	<.31	1.2*	NA	5.8	<.0032	140.0	<.05	36
	09/13/99	<.31	4.00	NA	15.0	<.0032	160.0	<.05	73
	12/15/99	<.31	1.2 *	NA	NA	NA	550.0	NA	NA
	03/13/00	<.31	1.70	NA	NA	NA	580.0	NA	NA
	06/22/00	<.31	<.62	NA	NA	NA	310.0	NA	NA
	09/27/00	<.23	2.10	NA	NA	NA	130.0	NA	NA
	12/19/00	.33*	2.90	NA	NA	NA	110.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	06/19/01	<.17	<.34	NA	NA	NA	<2	NA	NA
	09/24/01	.48 *	1.40	NA	NA	NA	46.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	100.0	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	87.0	NA	NA
	06/20/02	<.17	1.80	NA	NA	NA	44.0	NA	NA
	09/18/02	<.23	1.4*	NA	NA	NA	<2.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	38.0	NA	NA
	03/24/03	0.21*	<0.43	NA	NA	NA	3.5	NA	NA
	03/24/04	NA	<0.45	<3.6	NA	NA	65.0	NA	NA
	03/29/05	NA	0.71	<2.7	NA	NA	190.0	NA	NA
	03/23/06	NA	<0.40	<5.0	NA	NA	100.0	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	230	NA	NA
	04/16/08	NA	<0.57	NA	NA	NA	NA	NA	NA

Table 5 - Groundwater Analytical Results / Selected Metals
 N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5**	500	40	25.0	0.2	2,500
MW-103	02/20/97	NA	1,300	NA	47	NA	800.0	NA	27
	05/27/97	<.2	160.0	NA	31	NA	900.0	<.2	29
	09/18/97	.06**	35.2	NA	13.5**	3**	287.0	<.03	13.7
	12/12/97	.04*	16.3	NA	<9.7	<.8	84.3	.09*	21.4
	03/25/98	.04*	15.5	NA	<9.5	<1.7	83.0	.007*	7.5*
	06/10/98	.15*	57.6	NA	27.5	<1.7	417.0	.02*	33.7
	10/27/98	<.16	6.30	NA	2.3*	<.0032	27.0	<.05	30.0
	06/08/99	<.31	87.00	NA	3.5	<.0032	810.0	<.05	30
	09/13/99	<.31	720.0	NA	5.9	<.0032	83.0	<.05	15
	12/15/99	<.31	260.0	NA	NA	NA	160.0	NA	NA
	03/13/00	<.31	600.0	NA	NA	NA	79.0	NA	NA
	06/22/00	<.31	130.0	NA	NA	NA	180.0	NA	NA
	09/27/00	<.23	280.0	NA	NA	NA	230.0	NA	NA
	12/19/00	<.23	180.0	NA	NA	NA	170.0	NA	NA
	03/01/01	<.23	49.0	NA	NA	NA	240.0	NA	NA
	06/19/01	<.17	11.0	NA	NA	NA	350.0	NA	NA
	09/24/01	<.17	12.0	NA	NA	NA	280.0	NA	NA
	12/05/01	<.23	2.9	NA	NA	NA	230.0	NA	NA
	03/19/02	<.23	73.0	NA	NA	NA	7.9	NA	NA
	06/20/02	<.23	14.0	NA	NA	NA	630.0	NA	NA
	09/18/02	<.23	6.5	NA	NA	NA	560.0	NA	NA
	12/17/02	<.23	6.2	NA	NA	NA	3.7	NA	NA
	03/24/03	.26*	350.0	NA	NA	NA	48.0	NA	NA
	06/10/03	NA	150.0	NA	NA	NA	NA	NA	NA
	09/10/03	NA	9.10	NA	NA	NA	NA	NA	NA
	12/10/03	NA	7.70	NA	NA	NA	NA	NA	NA
	12/15/03	NA	NA	<3.6	NA	NA	NA	NA	NA
	03/24/04	NA	5.60	6.3	NA	NA	7.6	NA	NA
	07/09/04	NA	11.00	16.0	NA	NA	NA	NA	NA
	12/09/04	NA	1.20	<3.6	NA	NA	NA	NA	NA
	03/29/05	NA	220.0	350.0	NA	NA	82.0	NA	NA
	06/22/05	NA	240.0	250.0	NA	NA	NA	NA	NA
	09/21/05	NA	110.0	69.0	NA	NA	NA	NA	NA
	12/15/05	NA	120.0	150.0	NA	NA	NA	NA	NA
	03/23/06	NA	16.0	270.0	NA	NA	8.4	NA	NA
	06/28/06	NA	40.0	29.0	NA	NA	NA	NA	NA
	09/20/06	NA	45.0	35.0	NA	NA	NA	NA	NA
	12/20/06	NA	15.0	NA	NA	NA	NA	NA	NA
	03/28/07	NA	31	NA	NA	NA	38	NA	NA
	07/03/07	NA	90	NA	NA	NA	NA	NA	NA
	09/28/07	NA	78	NA	NA	NA	NA	NA	NA
	04/16/08	NA	380	NA	NA	NA	NA	NA	NA

Table 5 - Groundwater Analytical Results / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
MW-104	02/20/97	NA	5.9	NA	15	NA	550.0	NA	6.9
	05/27/97	<.02	6.9	NA	11	NA	470.0	<.2	5.2
	09/18/97	<.04	35.6	NA	5**	3**	235.0	<.03	4.74
	12/12/97	.04*	61.8	NA	9.8**	<.8	279.0	.05*	14
	03/25/98	.04*	66.8	NA	<9.5	<1.7	73.6	.008*	7.4*
	06/10/98	.04*	219.0	NA	<9.8	<1.7	107.0	.016*	12.8
	10/27/98	.29*	150.0	NA	2.3*	<.0032	25.0	<.05	30
	02/09/99	<.31	94.0	NA	1.4*	<.0032	1000.0	<.05	<12
	06/08/99	1*	62.0	NA	12.0	<.0032	620.0	<.05	17
	09/13/99	<.31	80.0	NA	3.2	<.0032	9.2	<.05	<12
	12/15/99	<.31	170.0	NA	NA	NA	1.6	NA	NA
	03/13/00	<.31	300.0	NA	NA	NA	13.0	NA	NA
	06/22/00	<.31	210.0	NA	NA	NA	41.0	NA	NA
	09/27/00	<.23	510.0	NA	NA	NA	3.9	NA	NA
	12/19/00	<.23	790.0	NA	NA	NA	<2	NA	NA
	03/01/01	<.23	840.0	NA	NA	NA	<2	NA	NA
	06/19/01	<.17	680.0	NA	NA	NA	2.3	NA	NA
	09/24/01	<.17	310.0	NA	NA	NA	17.0	NA	NA
	12/05/02	<.23	390.0	NA	NA	NA	2.2	NA	NA
	03/19/02	<.23	430.0	NA	NA	NA	<2.0	NA	NA
	06/20/02	<.23	490.0	NA	NA	NA	14.0	NA	NA
	09/18/02	<.23	410.0	NA	NA	NA	27.0	NA	NA
	12/17/02	<.23	240.0	NA	NA	NA	8.9	NA	NA
	03/24/03	<.17	180.0	NA	NA	NA	4.2	NA	NA
	06/10/03	NA	420.0	NA	NA	NA	NA	NA	NA
	09/10/03	NA	1200.0	NA	NA	NA	NA	NA	NA
	12/10/03	NA	790.0	NA	NA	NA	NA	NA	NA
	12/15/03	NA	NA	700.0	NA	NA	NA	NA	NA
	03/24/04	NA	550.0	580.0	NA	NA	<1.0	NA	NA
	07/09/04	NA	370.0	380.0	NA	NA	NA	NA	NA
	09/22/04	NA	87.0	33.0	NA	NA	NA	NA	NA
	12/09/04	NA	56.0	57.0	NA	NA	NA	NA	NA
	03/29/05	NA	260.0	260.0	NA	NA	1.0	NA	NA
	06/22/05	NA	280.0	230.0	NA	NA	NA	NA	NA
	09/21/05	NA	17.0	25.0	NA	NA	NA	NA	NA
	12/15/05	NA	95.0	110.0	NA	NA	NA	NA	NA
	03/23/06	NA	66.0	200.0	NA	NA	6.3	NA	NA
	06/28/06	NA	76.0	58.0	NA	NA	NA	NA	NA
	09/20/06	NA	2.8	<6.8	NA	NA	NA	NA	NA
	12/20/06	NA	8.4	NA	NA	NA	NA	NA	NA
	03/28/07	NA	160	NA	NA	NA	130	NA	NA
	07/03/07	NA	97	NA	NA	NA	NA	NA	NA
	09/28/07	NA	11.0	NA	NA	NA	NA	NA	NA
	04/16/08	NA	545	NA	NA	NA	NA	NA	NA

Table 5 - Groundwater Analytical Results / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
MW-105	02/20/97	NA	21	NA	22	NA	1100.0	NA	23
	05/27/97	<.2	5	NA	<10	NA	120.0	<.2	12
	09/18/97	.14**	29.5	NA	28.3	1**	532.0	<.03	46
	12/12/97	.36*	15.8	NA	12.5**	<.8	297.0	.03*	27.1
	03/25/98	.04*	30.8	NA	27.6	<1.7	518.0	.064*	44
	06/10/98	.048*	13.7	NA	15.3**	<1.7	217.0	.016*	22.1
	10/27/98	.29*	8.80	NA	8.20	<.0032	150.0	<.05	70
	02/09/99	<.31	1.3*	NA	4.30	<.0032	2000.0	<.05	19
	06/08/99	<.31	1*	NA	18.00	<.0032	1300.0	<.05	66
	09/13/99	<.31	.64*	NA	24.00	<.0032	1700.0	<.05	30
	12/15/99	<.31	<.62	NA	NA	NA	860.0	NA	NA
	03/13/00	<.31	4.80	NA	NA	NA	660.0	NA	NA
	06/22/00	<.31	1.0 *	NA	NA	NA	600.0	NA	NA
	09/27/00	<.23	1.2*	NA	NA	NA	700.0	NA	NA
	12/19/00	<.23	<.4	NA	NA	NA	230.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	43.0	NA	NA
	06/19/01	<.17	.75*	NA	NA	NA	230.0	NA	NA
	09/24/01	<.17	.73*	NA	NA	NA	530.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	22.0	NA	NA
	06/20/02	<.23	.60*	NA	NA	NA	1400.0	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	600.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	58.0	NA	NA
	03/24/03	.21*	<.43	NA	NA	NA	86.0	NA	NA
	03/24/04	NA	3.80	6.3	NA	NA	89.0	NA	NA
	03/29/05	NA	<0.52	<2.7	NA	NA	82.0	NA	NA
	03/23/06	NA	0.42	<5.0	NA	NA	43.0	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	23	NA	NA
MW-106	02/20/97	NA	21	NA	24	NA	320.0	NA	26
	05/27/97	<.02	40	NA	35	NA	590.0	<.2	68
	09/18/97	.05**	5.5	NA	6.2**	1**	56.9	<.03	35.6
	12/12/97	.04*	9.2	NA	9.7**	<.08	155.0	.03*	18.4
	03/25/98	NA	13.40	NA	14.4**	<1.7	150.0	.007*	18.5
	06/10/98	.04*	<3.9	NA	10.2**	<1.7	10.0	.016*	10.9
	10/27/98	.27*	3.20	NA	4.3*	<.0032	38.0	<.05	88
	02/09/99	<.31	<.62	NA	1.1*	<.0032	760.0	<.05	22
	06/08/99	<.31	.79*	NA	2.3	<.0032	900.0	<.05	<12
	09/13/99	<.31	1.80	NA	4.7	<.0032	1100.0	<.05	30
	12/15/99	<.31	1.3 *	NA	NA	NA	130.0	NA	NA
	03/31/00	<.31	2.30	NA	NA	NA	270.0	NA	NA
	06/22/00	<.31	.73 *	NA	NA	NA	<4.2	NA	NA
	09/27/00	<.23	.88*	NA	NA	NA	50.0	NA	NA
	12/19/00	<.23	.77*	NA	NA	NA	22.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	45.0	NA	NA
	06/19/01	.21*	.39*	NA	NA	NA	57.0	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	950.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	310.0	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	92.0	NA	NA
	06/20/02	<.23	<.44	NA	NA	NA	270.0	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	420.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	41.0	NA	NA
	03/24/03	<0.17	<.43	NA	NA	NA	2.1	NA	NA
	03/24/04	NA	<0.45	3.8	NA	NA	190.0	NA	NA
	03/29/05	NA	1.10	<2.7	NA	NA	15.0	NA	NA
	03/23/06	NA	0.45	<5.0	NA	NA	30.0	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	15	NA	NA

Table 5 - Groundwater Analytical Results / Selected Metals
 N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
MW-107	02/20/97	NA	2,000	NA	13	NA	190.0	NA	6.9
	05/27/97	<.2	3,600	NA	<10	NA	91.0	<.2	10
	09/18/97	<.04	2,670	NA	<8.1	1**	59.3	<.03	33.5
	12/12/97	.04*	2,310	NA	<9.7	<.8	48.4	.1*	6.7
	03/25/98	.04*	11,200*	NA	12.1**	<1.7	68.2	.041*	9.3*
	06/10/98	.11*	6,240	NA	13.8**	<1.7	161.0	.027*	17.3*
	10/27/98	<.16	7,100	NA	1.2*	<.0032	28.0	<.05	94
	02/09/99	<.31	3,200	NA	1.9*	<.0032	49.0	<.05	<12
	06/08/99	<.31	5,800	NA	3.0	<.0032	25.0	<.05	<12
	09/13/99	<.31	4,000	NA	1.9*	<.0032	18.0	<.05	<12
	12/15/99	<.31	14,000	NA	NA	NA	.83 *	NA	NA
	03/13/00	<.31	8,100	NA	NA	NA	22.0	NA	NA
	06/22/00	<.31	14,000	NA	NA	NA	<42	NA	NA
	09/27/00	<.23	11,000	NA	NA	NA	4.9	NA	NA
	12/19/00	<.23	10,000	NA	NA	NA	2.4	NA	NA
	03/01/01	<.23	5,000	NA	NA	NA	2.2	NA	NA
	06/19/01	<.17	8,200	NA	NA	NA	<2	NA	NA
	09/24/01	<.17	5,300	NA	NA	NA	270.0	NA	NA
	12/05/01	<.23	6,200	NA	NA	NA	10.0	NA	NA
	03/19/02	<.23	7,000	NA	NA	NA	<20	NA	NA
	06/20/02	<.23	7,000	NA	NA	NA	<20	NA	NA
	09/18/02	<.17	4,300	NA	NA	NA	24.0	NA	NA
	12/17/02	<.17	3,700	NA	NA	NA	15.0	NA	NA
	03/24/03	<10	3,800	NA	NA	NA	7.7	NA	NA
	06/10/03	NA	5,900	NA	NA	NA	NA	NA	NA
	09/10/03	NA	5,200	NA	NA	NA	NA	NA	NA
	12/10/03	NA	5,200	NA	NA	NA	NA	NA	NA
	12/15/03	NA	NA	5,500	NA	NA	NA	NA	NA
	03/24/04	NA	3,900	4,100	NA	NA	1.2*	NA	NA
	07/09/04	NA	3,400	5,000	NA	NA	NA	NA	NA
	09/22/04	NA	4,100	4,400	NA	NA	NA	NA	NA
	12/14/04	NA	6,300	5,800	NA	NA	NA	NA	NA
	03/29/05	NA	3,600	4,100	NA	NA	1.9	NA	NA
	06/22/05	NA	3,300	2,900	NA	NA	NA	NA	NA
	09/21/05	NA	2,500	2,500	NA	NA	NA	NA	NA
	12/15/05	NA	2,400	2,700	NA	NA	NA	NA	NA
	03/23/06	NA	3,200	3,600	NA	NA	1.90	NA	NA
	06/28/06	NA	3,600	3,000	NA	NA	NA	NA	NA
	09/20/06	NA	4,100	4,200	NA	NA	NA	NA	NA
	12/19/06	NA	2,700	NA	NA	NA	NA	NA	NA
	03/28/07	NA	4,200	NA	NA	NA	1.7	NA	NA
	07/03/07	NA	2,800	NA	NA	NA	NA	NA	NA
	09/28/07	NA	2,000	NA	NA	NA	NA	NA	NA
	04/16/08	NA	4,410	NA	NA	NA	NA	NA	NA

Table 5 - Groundwater Analytical Results / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
MW-108	02/20/97	NA	25	NA	23	NA	490.0	NA	31
	05/27/97	<.2	11	NA	13	NA	210.0	<.2	15
	09/18/97	.14**	27.4	NA	22.4**	1**	462.0	<.03	36.6
	12/12/97	.04*	5.6	NA	<9.7	<.8	74.8	.03*	27.9
	03/25/98	.04*	9.4	NA	10.4**	<1.7	142.0	.007*	13.8
	06/10/98	.14*	28.4	NA	25.5	<1.7	478.0	.021*	40.5
	10/27/98	.26*	8.90	NA	7.40	<.0032	88.0	<0.5	44
	02/09/99	<.31	1.70	NA	3.90	<.0032	560.0	<.05	30
	06/08/99	<.31	3.10	NA	1.4*	<.0032	450.0	<.05	54
	09/13/99	<.31	4.50	NA	5.30	<.0032	100.0	<.05	<12
	12/15/99	<.31	6.10	NA	NA	NA	79.0	NA	NA
	03/13/00	<.31	3.6	NA	NA	NA	41.0	NA	NA
	06/22/00	<.31	6.5	NA	NA	NA	<4.2	NA	NA
	09/27/00	<.23	2.9	NA	NA	NA	29.0	NA	NA
	12/19/00	<.23	3.0	NA	NA	NA	22.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	06/19/01	<.17	2.40	NA	NA	NA	110.0	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	40.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	7.4	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	3.4	NA	NA
	06/20/02	<.23	.85*	NA	NA	NA	39.0	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	150.0	NA	NA
	12/17/02	<.23	.67*	NA	NA	NA	34.0	NA	NA
	03/24/03	<.17	.67*	NA	NA	NA	3.3	NA	NA
	03/24/04	NA	0.79*	<36	NA	NA	83.0	NA	NA
	03/29/05	NA	0.65	<2.7	NA	NA	2.6	NA	NA
	03/27/06	NA	<0.40	<5.0	NA	NA	6.2	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	1.4	NA	NA
MW-109	6/21/06****	<0.92	1,300	1,400	2.4*	<9.4	480.0	<0.072	<20
	9/20/06****	NA	450	NA	-	<9.4	430.0	NA	<20
	12/19/06	NA	550	NA	NA	NA	NA	NA	NA
	03/29/07	NA	2,700	NA	NA	0.94	15	NA	<20
	07/03/07	NA	2,200	NA	NA	NA	NA	NA	NA
	09/28/07	NA	1,300	NA	NA	NA	NA	NA	NA
	04/16/08	NA	1,550	NA	NA	NA	NA	NA	NA
MW-110	6/21/06****	<0.92	24,000	26,000	2.9*	40	290.0	<0.072	<20
	9/20/06****	NA	15,000	NA	NA	41	260.0	NA	<20
	12/19/06	NA	15,000	NA	NA	53	NA	NA	NA
	03/29/07	NA	47,000	NA	NA	6.6	84	NA	<20
	07/03/07	NA	3,200	NA	NA	79	NA	NA	NA
	09/28/07	NA	51,000	NA	NA	71	NA	NA	NA
	04/16/08	NA	32,500	NA	NA	55	NA	NA	NA
MW-111	6/21/06****	<0.92	1,400	1,400	3.3*	27	190.0	<0.072	<20
	9/20/06****	NA	22	NA	-	20*	210.0	NA	<20
	12/19/06	NA	6.7	NA	NA	NA	NA	NA	NA
	03/29/07	NA	2,300	NA	NA	31	11	NA	<20
	07/03/07	NA	41	NA	NA	NA	NA	NA	NA
	09/28/07	NA	340	NA	NA	NA	NA	NA	NA
	04/16/08	NA	212	NA	NA	16 J	NA	NA	NA
MW-112	6/21/06****	<0.92	130,000	140,000	5.3	140	180.0	<0.072	34,000
	9/20/06****	NA	69,000	NA	NA	84	130.0	NA	<20
	12/19/06	NA	55,000	NA	NA	88	NA	NA	<200
	03/28/07	NA	140,000	NA	NA	450	110	NA	<20
	07/03/07	NA	100,000	NA	NA	35	NA	NA	<200
	09/28/07	NA	150,000	NA	NA	320	NA	NA	34
	04/16/08	NA	88,400	NA	NA	380	NA	NA	NA

Table 5 - Groundwater Analytical Results / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin

Well Name	Sample Date	Cadmium (ug/l)	Chromium (ug/l)	Hexavalent Chromium (ug/l)	Copper (ug/l)	Cyanide (ug/l)	Manganese (ug/l)	Mercury (ug/l)	Zinc (ug/l)
Max Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 ES NR 140		10	50	50	1,000	200	50.0	2	5,000
1992 PAL NR 140		1.0	5	5***	500	40	25.0	0.2	2,500
MW-113	6/21/06****	<0.92	25,000	26,000	3.4*	11	170.0	<0.072	<20
	9/20/06****	NA	31,000	NA	NA	12*	85.0	NA	<20
	12/19/06	NA	21,000	NA	NA	NA	NA	NA	NA
	03/29/07	NA	11,000	NA	NA	<0.94	3.2	NA	<20
	07/03/07	NA	21,000	NA	NA	NA	NA	NA	NA
	09/28/07	NA	55,000	NA	NA	NA	NA	NA	NA
	04/16/08	NA	16,400	NA	NA	NA	NA	NA	NA
PZ-5	07/19/05****	NA	1.3*	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	0.41*	<5.0	NA	NA	NA	NA	NA
PZ-6	07/19/05****	NA	1.2*	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	<0.40	<5.0	NA	NA	NA	NA	NA
PZ-7	07/19/05****	NA	<0.52	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	0.55*	<5.0	NA	NA	NA	NA	NA
PZ-8	07/19/05****	NA	1.1*	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	<0.40	<5.0	NA	NA	NA	NA	NA

EXPLANATION:

Samples collected prior to 10/27/98 were collected by CH2M Hill.

* = Analyte detected between limit of detection and limit of quantitation.

** = Compound was found in sample and blank.

*** = Standard is for Total Chromium.

**** = Omni Associates, Inc. collected groundwater samples from PZ-5 to PZ-8 on July 19, 2005 and September 21, 2005 and MW-109 to MW-113 on June 21, 2006 and September 20, 2006 using a peristaltic pump and dedicated tubing.

ND = Not detected above the analytical laboratories method detection limit

NA = Not Analyzed

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

MW-104 = Was tested for Aluminum, Nickel, Arsenic & Lead. No quantifiable detections were noted for any of the analytes.

ug/L = Microgram/Liter

mg/L = Milligram / Liter

Indicates an exceedance of the 1992 NR 140 Groundwater Quality Enforcement Standard (ES)

Indicates Exceedance of the 1992 NR 140 Groundwater Preventive Action Limit (PAL)

NOTE: The EPA Record of Decision establishes the 1992 PALS as the cleanup goals for the site.

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Ortho-Xylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
W-2	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<.7	<.7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<.7	<.7	<.4	<68	<40	<.5	<.5	.4**	-
	06/10/98	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	.15*	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	.13*	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	<.42	<.32	<.42	***	<.43	
W-8	02/20/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<40	<.7	<.7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<40	<.7	<.7	<.4	<68	<40	<.5	<.5	.4**	-
	03/25/98	<.5	<.6	<85	<40	<.7	<.7	<.3	<68	<40	<.5	<.5	.3**	-
	06/10/98	<.5	<.6	<85	<40	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	.19*	<.15	<.15	<.15	<.16	<.17	***	.15*	<.14	<.15	<.15	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.13	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	<.42	<.32	<.42	***	<.43	

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Ortho-Xylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
W-15	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	0.22	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<.7	<.7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<.7	<.7	<.4	<68	<40	<.5	<.5	.4**	-
	06/10/98	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	06/08/99	.16*	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.50*	<.42	<.32	<.42	***	<.43
MW-101	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	.491*	.353*	<.7	<.7	<124	<68	3.03	<.5	3.31	<124	-
	12/12/97	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.91	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.40*	<.42	<.32	<.42	***	<.43

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloro ethane	1,1-Dichloro ethene	cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Ortho-Xylene	Toluene	1,1,1-Trichloro ethane	1,1,2-Trichloro ethane	Trichloro ethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
MW-102	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<.85	<.85	<.7	<.7	<124	<.68	<.40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<.85	<.85	<.7	<.7	<120	<.68	<.40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<.85	<.85	<.7	<.7	<.4	<.68	<.40	<.5	<.5	.4*	-
	06/10/98	<.5	<.6	<.85	<.85	<.7	<.7	<120	<.68	<.40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.65	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	.21*	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	<.42	<.32	<.42	***	<.43
MW-103	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<.85	<.7	<.7	<.7	<124	<.68	<.40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<.85	<.7	<.7	<.7	<120	<.68	<.40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<.85	<.7	<.7	<.7	<120	<.68	<.40	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<.85	<.7	<.7	<.7	<120	<.68	<.40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	.15*	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	.23*	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.39	***	<.37	<.42	<.32	<.42	***	<.42

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloro ethane	1,1-Dichloro ethene	cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	Ortho-Xylene	Toluene	1,1,1-Trichloro ethane	1,1,2-Trichloro ethane	Trichloro ethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
MW-104	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<.7	<.7	<124	<68	.324*	<.5	<.5	<124	-
	12/12/97	<.5	<.6	0.4	<.7	<.7	<.7	<120	<68	1*	<.5	0.9	<120	-
	03/25/98	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	.8*	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	2*	<.5	<.5	<120	-
	10/27/98	<.24	<.23	.35*	<.28	<.27	<.26	<.17	<.21	1.8	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	.38*	<.15	<.16	<.17	***	.17*	1.5	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	.34*	<.15	<.16	<.17	***	.14*	1.4	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	.38*	<.15	<.16	<.17	***	.27*	1.6	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	.38*	<.35	<.15	<.39	***	<.37	1.6	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	2.8	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	2.4	<.25	<.23	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	1.3*	<.32	<.42	***	<.43
MW-105	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<.7	<.7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<.7	<.7	<.4	<68	<40	<.5	<.5	.4*	-
	06/10/98	<.5	<.6	<85	<.7	<.7	<.7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	.16*	<.15	<.14	<.15	<.16	<.17	***	.3*	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13*	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	****	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	0.64*	<.42	<.32	<.42	***	<.43

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Ortho-Xylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
MW-106	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<7	<7	<124	<68	2.73*	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	.18*	<.15	<.14	<.15	<.16	<.17	***	<.17	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	0.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	5.7	<.42	<.32	<.42	***	<.43
MW-107	02/20/97	<.5	0.3	11	8.4	0.7	<.7	<.5	<.5	81	0.6	50	<.5	-
	05/27/97	0.09	1.10	36	40	3.1	<3.1	<.5	0.34	390	3.5	420	<.5	-
	09/18/97	<10	<12	47.6*	22.1	2.61*	<2.61	<2480	<68	265*	2.83	295	<2480	-
	12/12/97	<10	<12	56*	23	3*	<3	<2500	<68	280	3	290	<2500	-
	03/25/98	<25	<30	61*	69	5*	<5	<17	<68	720	5	620	17*	-
	06/10/98	<12	<15	59*	58	<3	<3	<3100	63*	340*	4*	390	<3100	-
	10/27/98	<.24	1.4	62	46*	3.6	.51*	<.17	<.21	550	4.9	640	<.36	-
	02/09/99	<3.2	<3.8	48	24	<4.0	<4.2	***	<3.2	220	<.38	250	***	<9.2
	06/08/99	<2.6	<3.0	42	20	<3.2	<3.4	***	<2.6	200	<3.0	310	***	<7.4
	09/13/99	<.26	<3.0	34	19	<.32	<3.4	***	<2.6	180	<.3.0	320	***	<7.4
	12/15/99	<3.2	<3.8	37	56	4.6 *	<4.2	***	<3.2	570	4.5 *	880	***	<9.2
	03/13/00	<26	<23	50 *	32 *	<12	<31	***	<30	340	<.90	630	***	<57
	06/22/00	<26	<23	<29	50 *	<12	<31	***	<30	540	<9	850	***	<57
	09/27/00	<26	<23	35*	54*	<12	<31	***	<30	560	<9	870	***	<57
12/19/00	<6.4	<5.6	36	53	4.5*	<7.8	***	<7.5	480	4.1*	790	***	<20	
03/01/01	<6.0	<7.4	<32	<6.7	<14	<6.5	***	<8.7	420	<13	760	***	<28	
06/25/01	<6.5	<15	26	35	<9	<6.1	***	<6.2	360	<6.5	620	***	<32	

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloro ethane	1,1-Dichloro ethene	cis-1,2,-Dichloro ethene	Trans-1,2,-Dichloro ethene	Ortho-Xylene	Toluene	1,1,1-Trichloro ethane	1,1,2-Trichloro ethane	Trichloro ethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
	09/24/01	<6.5	<15	36	50	<9	<6.1	***	<6.2	480	<6.5	760	***	<32
MW-107	12/05/01	<6.5	<15	40	50	<9	<6.1	***	<6.2	500	<6.5	810	***	<32
(cont.)	03/19/02	<6.0	<7.5	37*	43	<14	<6.5	***	<8.7	440	<13	740	***	<28
	06/20/02	<7.9	<11	31	39	<7.2	<8.9	***	<7.6	410	<6.8	690	***	<14
	09/18/02	<7.9	<11	34	39	<7.2	<8.9	***	<7.6	430	<6.8	710	***	<14
	12/17/02	<7.9	<11	40	43	<7.2	<8.9	***	<7.6	470	<6.8	850	***	<14
	03/24/03	<.17	<.18	33*	37*	<19	<19	***	<19	390	<16	640	***	<22
	06/10/03	<5.7	<8.0	<5.3	39	<11	<8.2	***	<7.2	400	<9.0	680	***	<17
	09/10/03	<17	<18	36*	41*	<19	<19	***	<19	430	<16	730	***	<22
	12/10/03	<17	<18	25*	31*	<19	<19	***	<19	380	<16	740	***	<22
	03/24/04	<7.5	<7.0	<7.1	22	<6.8	<6.0	***	<7.6	220	<8.1	370	***	<19
	07/29/04	<2.0	<1.8	29	25	<4.1	<4.4	***	<3.4	310	3.4	510	***	<13.1
	09/22/04	<7.5	<7.0	28	34	<6.8	<6.0	***	<7.6	270	<8.1	570	***	<19
	12/14/04	<7.5	<7.0	33	40	<6.8	<6.0	***	<7.6	410	<8.1	800	***	<19
	03/29/05	<2.0	<1.8	39	20	<4.1	<4.4	***	<3.4	200	0.21	330	***	<13.1
	06/22/05	<1.0	<0.92	18	8.2	<2.1	<2.2	***	<1.7	82	<1.0	160	***	<6.6
	09/21/05	<2.0	<1.8	39	18.0	<4.1	<4.4	***	<3.4	220	<2.1	470	***	<13.1
	12/15/05	<2.0	<1.8	42	26.0	<4.1	<4.4	***	<3.4	250	<2.1	490	***	<13.1
	03/23/06	<2.0	<1.8	31	16.0	<4.1	<4.4	***	<3.4	150	<2.1	330	***	<13.1
	06/28/06	<2.0	<1.8	37	28.0	<4.1	<4.4	***	<3.4	270	<2.1	550	***	<13.1
	09/20/06	<4.1	<3.7	32	31.0	<8.3	<8.9	***	<6.7	330	<4.2	700	***	<26.3
	12/19/06	<2.0	<1.8	52	30	<4.1	<4.4	***	<3.4	280	3.3*	580	***	<13.1
	03/28/07	<0.82	<0.74	19	18	2.1	<1.8	***	<1.3	190	1.7	340	***	<5.3
	07/03/07	<1.0	<0.92	30	15	2.3	<2.2		<1.7	160	1.5	350	***	<6.6
	09/28/07	<2.0	<1.8	35	19	<4.1	<4.4	***	<3.4	210	2.4*	420	***	<13.1
	04/16/08	<2.0	<1.8	20.8	21.8	<4.2	<4.4	***	<3.4	257	2.7 J	550	***	<13.2

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Ortho-Xylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
MW-108	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<7	<7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<44	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.22	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.83	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	.15*	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.84	<.14	<.15	<.14	***	<.32
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.36	***	<.71
	03/31/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56	
03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	<.42	<.32	<.42	***	<.43	
MW-109	06/21/06	-	0.40*	1.3*	1.9	<0.83	<0.89	***	-	37	0.45*	46	***	-
	09/20/06	-	0.39*	1.7*	2.2	<0.83	<0.89	***	-	37	0.45*	51	***	-
	12/19/06	<0.41	0.44*	2.7	1.1*	<0.83	<0.89	***	-	33	0.52*	42	***	<2.63
	03/29/07	<0.41	<0.37	0.85	1.3	<0.83	<0.89	***	<13	27	<0.42	37	***	<2.63
	07/03/07	<0.41	0.38*	1.7	1.3	<0.83	<0.89	***	<0.67	34	0.54	47	***	<2.63
	09/28/07	<0.41	<0.37	<0.75	1.1*	<0.83	<0.89	***	<0.67	22	<0.42	35	***	<2.63
	04/16/08	<0.41	0.39 J	1.9	1.9	<0.83	<0.89	***	<0.67	31.9	0.45 J	39.4	***	<2.63
MW-110	06/21/06	-	<3.7	310	340	56	19	***	-	1,500	<4.2	27	***	-
	09/20/06	-	<3.7	260	300	57	28*	***	-	1,100	<4.2	30	***	-
	12/19/06	<4.1	<3.7	230	240	55	16*	***	<6.7	910	<4.2	23	***	<2.63
	03/29/07	<8.2	<7.4	250	340	59	24	***	<13	1,500	<8.4	32	***	<53
	07/03/07	<8.2	<7.4	270	230	59	18	***	<13	1,300	<8.4	26	***	<53
	09/28/07	<10	<9.2	380	350	67*	23*	***	<17	1,600	<10	32*	***	<2.63
	04/16/08	<8.2	<7.4	206	195	55.9	<17.8	***	<13.4	918	<8.4	28.2	***	<52.6

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

		Detected Volatile Organic Compounds (µg/L)												
		Benzene	Chloroform	1,1-Dichloro ethane	1,1-Dichloro ethene	cis-1,2,-Dichloro ethene	Trans-1,2,-Dichloro ethene	Ortho-Xylene	Toluene	1,1,1-Trichloro ethane	1,1,2-Trichloro ethane	Trichloro ethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL		5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140		0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124
MW-111	06/21/06	-	0.59*	2.7	11	<0.83	<0.89	***	-	78	0.71	180	***	-
	09/20/06	-	<0.37	3.2	7.7	<0.83	<0.89	***	-	36	<0.42	97	***	-
	12/19/06	<0.41	<0.37	2.0*	1.5*	<0.83	<0.89	***	<0.67	7.9	<0.42	21	***	<2.63
	03/29/07	<0.41	0.77	1.7	7.3	<0.83	<0.89	***	<0.67	52	<0.42	120	***	<2.63
	07/03/07	<0.41	<0.37	<0.36	1.8	<0.83	<0.89	***	<0.67	14	<0.42	37	***	<2.63
	09/28/07	<0.41	<0.37	2.4*	2.8	<0.83	<0.89	***	<0.67	22	<0.42	55	***	<2.63
	04/16/08	<0.41	1.2	1.6	2.7	<0.83	<0.89	***	<0.67	20.3	<0.42	52.9	***	<2.63
MW-112	06/21/06	-	<1.8	<3.7	<3.8	<4.1	<4.4	***	-	7.9*	<2.1	450	***	-
	09/20/06	-	<0.37	<7.5	<5.7	<8.3	<8.9	***	-	<9.0	<4.2	540	***	-
	12/19/06	<2.0	<1.8	<3.8	<2.8	<4.1	<4.4	***	<3.4	<4.5	<2.1	240	***	<13.1
	03/29/07	<4.1	<3.7	<7.5	<5.7	<8.3	<8.9	***	<6.7	20	<4.2	940	***	<26.3
	07/03/07	<2.0	<1.8	<3.8	<2.8	<4.1	<4.4	***	<3.4	11	<2.1	750	***	<13.1
	09/28/07	<4.1	<3.7	<7.5	<5.7	<8.3	<8.9	***	<6.7	13*	<4.2	820	***	<2.63
	04/16/08	<4.1	<3.7	<7.5	<5.7	<8.3	<8.9	***	<6.7	20.1	<4.2	1130	***	<26.3
MW-113	06/21/06	-	<0.74	37	44	4.4*	<1.8	***	-	240	<0.84	92	***	-
	09/20/06	-	<0.37	22	19	3.6	1.3*	***	-	120	0.82*	81	***	-
	12/19/06	<2.0	<1.8	28	16	5.2*	<4.4	***	<3.4	120	<2.1	91	***	<13.1
	03/29/07	<0.41	<0.37	10	11	1.6	<0.89	***	<0.67	77	<0.42	46	***	<2.63
	07/03/07	<2.0	<1.8	21	8.1	4.9	<4.4	***	<13.1	79	<2.1	61	***	<13.1
	09/28/07 ^A	<0.41	0.57	35	17	8.9	<0.89	***	<0.67	130	1.5	97	***	<2.63
	04/16/08	<0.41	<0.37	20.5	15.3	3.7	<0.89	***	<0.67	99.7	0.44 J	62.4	***	<2.63
PZ-5	07/19/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	1.7*	<0.42	<0.48	NA	NA	N
	09/21/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	<0.90	<0.42	<0.48	NA	NA	NA
PZ-6	07/19/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	<0.90	<0.42	<0.48	NA	NA	NA
	09/21/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	<0.90	<0.42	<0.48	NA	NA	NA

Table 6 - Groundwater Analytical Results / Detected Volatile Organic Compounds (VOCs)

N.W. Mauthe Superfund Site - Appleton, Wisconsin

	Detected Volatile Organic Compounds (µg/L)												
	Benzene	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Ortho-Xylene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Meta, para Xylene	Total Xylenes
1992 US EPA MCL	5.0	100	-	7.0	70	100	10,000	1,000	200	5.0	5.0	10,000**	10,000
1992 ES NR 140	5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 PAL NR 140	0.067	0.6	85	0.024	10	20	124**	68.6	40	0.06	0.18	124**	124

EXPLANATION:

Results prior to 10/27/98 for cis-1,2,-Dichloroethene and Trans-1,2 Dichloroethene were listed as Total Dichloroethene and were placed in this table under the heading cis-1,2,-Dichloroethene.

Results prior to 10/27/98 for Ortho Xylene and Meta, para Xylene were listed as Total Xylenes and were placed in this table under the heading Meta, para Xylene.

* = Analyte detected between limit of detection and limit of quantitation.

J = Estimated Concentration above the adjusted method detection limit and below the sdjusted reporting limit.

** = Standard includes Ortho-, Meta, para-Xylenes

*** = As of 02/09/99 Xylene results are listed as "Total Xylenes".

WM Equipment Malfunction, no accurate measurement.

NOTE: The EPA Record of Decision establishes the 1992 PAL's as the clean-up goals for the site.


A = 1,2-Dichloroethane was detected at 0.87 ug/l.


ND = Not Detected

NA = Not Analyzed

MCL = Maximum Contaminant Levels

ug/l = Microgram/Liter

 = Indicates an exceedance of the 1992 NR 140 Groundwater Quality Enforcement Standards (ES)

 = Indicates an exceedance of the 1992 NR 140 Groundwater Quality Preventive Action Limits (PAL)

OPERATION, MAINTENANCE, MONITORING
AND OPTIMIZATION REPORTING OF
SOIL AND GROUNDWATER REMEDIATION SYSTEMS

PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(e), Wis. Adm. Code. Use of this form is mandatory. Failure to submit this form as required is a violation of s. NR 724.13, Wis. Adm. Code, and is subject to the penalties in s. 144.99, Wis. Stats. This form must be submitted every six months for active soil and groundwater remediation projects and every twelve months for passive (natural attenuation) remediation projects that are regulated under the NR 700 series of Wis. Adm. Code. Specifically, for sites meeting any of the following criteria:

- Soil or groundwater remediation projects that report progress in accordance with s. NR 700.11(1), Wis. Adm. Code.
- Soil or groundwater remediation projects that report progress in accordance with s. NR 724.13(3), Wis. Adm. Code. (Note: s. NR 724.13(3) requires progress reports for operation and maintenance of active systems to be submitted every three months however the Department considers submittal of this form every six months to satisfy the requirements of the rules, unless otherwise directed by the Department on a site specific basis.)
- Soil or groundwater remediation projects that report progress in accordance with s. NR 724.17(3), Wis. Adm. Code. (Note: s. NR 724.17(3) requires progress reports every time that samples are collected however the Department considers submittal of this form every twelve months to satisfy the requirements of the rules for monitoring natural attenuation, unless otherwise directed by the Department on a site specific basis.)

Submittal of this form is not a substitute for reporting required by Department programs such as Wastewater or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Please refer to the instructions that are attached to the back of these forms starting on page INS-1. In all cases, when asked to "explain," those explanations are to be included on separate sheets of paper. Explanations must include a title that refers to the page and item number, for example: Page GI-2, C.1.a.

A. GENERAL INFORMATION:

1. Site name: N.W. Mauthe Superfund Site
2. Reporting period from: November 1, 2007 To: April 30, 2008 Days in period: 182
3. Regulatory agency (enter DNR, DCOM, DATCP and/or other): WDNR and USEPA
4. DNR issued site number: 02-45-000127
5. State reimbursement fund claim number and fund name (if not applicable, enter NA): NA
6. Site location:
- a. DNR region and county: Northeast, Outagamie
 - b. Street address and municipality: 725 South Outagamie Street, Appleton, WI 54914
 - c. Township, range, section and quarter quarter section: T21N, R17E, Section 34, NE1/4, NW1/4
7. Responsible party:
- a. Name: Carol Mauthe
 - b. Mailing address: c/o Jennifer Borski, WDNR, 625 East County Road Y, Suite 700
Oshkosh, WI 54901-9731
 - c. Phone number: (920) 424-7887
8. Consultant:
- a. Company name: OMNNI Associates, Inc.
 - b. Mailing address: One Systems Drive, Appleton, WI 54914-1654
 - c. Phone number: (920) 735-6900
9. Contaminants: Chromium, cyanide, and chlorinated solvents
10. Soil types (USCS or USDA): LEAN CLAY W/SAND, reddish brown (CL)
11. Hydraulic conductivity (cm/sec): 3.90E-07 12. Average linear velocity of groundwater (ft/yr): 1.17

OPERATION, MAINTENANCE, MONITORING
AND OPTIMIZATION REPORTING OF
SOIL AND GROUNDWATER REMEDIATION SYSTEMS

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: N.W. Mauthe Superfund Site

Reporting period from: November 1, 2007 To: April 30, 2008 Days in period: 182

A. GENERAL INFORMATION (CONTINUED):

13. If soil is treated ex situ, is the treatment location off site? (Y/N) If yes, give location:

a. DNR region and county: NA

b. Township, range, section and quarter quarter section: _____

B. REMEDIATION METHOD: Only submit pages that apply to an individual site. Check all that apply:

- Groundwater extraction (submit a completed page GW-1).
- Free product recovery (submit a completed page GW-1).
- In situ air sparging (submit a completed page GW-2).
- Groundwater natural attenuation (submit a completed page GW-3).
- Other groundwater remediation method (submit a completed page GW-4).
- Soil venting (including soil vapor extraction and bioventing, submit a completed page IS-1).
- Soil natural attenuation (submit a completed page IS-2).
- Other in situ soil remediation method (submit a completed page IS-3).
- Biopiles (submit a completed page ES-1).
- Landspreading/thinspreading of petroleum contaminated soil (submit a completed page ES-2).
- Other ex situ soil remediation method (submit a completed page ES-3).

C. GENERAL EFFECTIVENESS EVALUATION FOR ALL ACTIVE SYSTEMS: If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? (Y/N): Yes
If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.
2. Are modifications to the system warranted to improve effectiveness? (Y/N) If yes, explain: No
3. Is natural attenuation an effective low cost option at this time? (Y/N): No
4. Is closure sampling warranted at this time? (Y/N): No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? (Y/N) If yes, explain: Not at this time

D. ECONOMIC AND COST DATA TO DATE:

1. Total investigation costs (\$): Superfund site, EPA has cost information
2. Implementation costs (design, capital and installation costs, excluding investigation costs) (\$): Superfund site, EPA has cost information
3. Total costs during the previous reporting period (\$): \$12,675
4. Total costs during this reporting period (\$): \$15,149.82
5. Total anticipated costs for the next reporting period (\$): \$21,800
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? (Y/N) If yes explain: *
7. If close out is anticipated within 12 months, estimated costs for project closeout (\$): Close out not anticipated within 12 months

* Flow Totalizers were installed on Manhole #1 and Manhole #2 influent lines. Operation & Maintenance contractor changeover costs. Field sampling equipment upgrades.

OPERATION, MAINTENANCE, MONITORING
AND OPTIMIZATION REPORTING OF
SOIL AND GROUNDWATER REMEDIATION SYSTEMS

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: N.W. Mäuthe Superfund Site

Reporting period from: November 1, 2007 To: April 30, 2008 Days in period: 182

E. NAME(S), SIGNATURE(S) AND DATE OF PERSON(S) SUBMITTING FORM: Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form.

Registered Professional Engineers:

I (print name) Brian Wayner, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title, P.E. number and date: *Brian D. Wayner* June 4, 2008

Hydrogeologists:

I (print name) Don Brittnacher, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

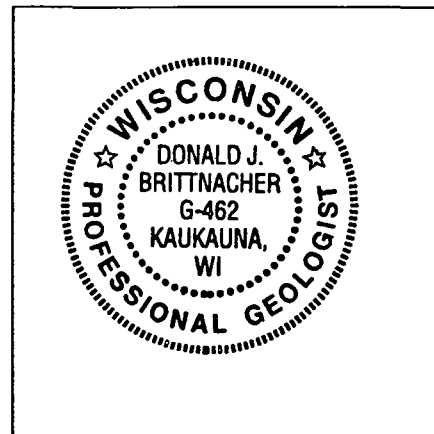
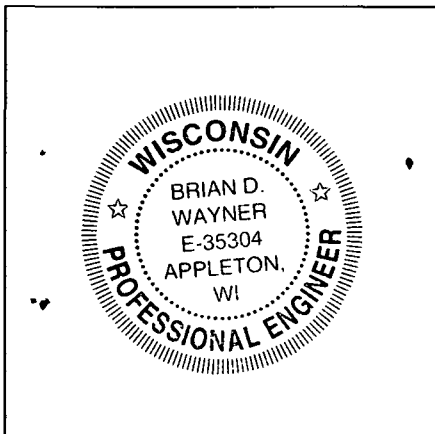
Signature, title and date: *Don Brittnacher* June 4, 2008

Scientists:

I (print name) _____, hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title and date: _____

Professional Seal(s), if applicable:



OPERATION, MAINTENANCE, MONITORING
AND OPTIMIZATION REPORTING OF
SOIL AND GROUNDWATER REMEDIATION SYSTEMS

GROUNDWATER PUMP AND TREAT SYSTEMS AND FREE PRODUCT RECOVERY SYSTEMS

SITE NAME AND REPORTING PERIOD:

Site name: N.W. Mauthe Superfund Site
Reporting period from: November 1, 2007 To: April 30, 2008 Days in period: 182
Date that the system was first started up: February 1997

A. GROUNDWATER EXTRACTION SYSTEM OPERATION:

1. Total number of groundwater extraction wells or trenches available and the number in use during period: Three trenches available/used
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): 182
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: 100%
4. Quantity of groundwater extracted during this time period (gallons): 495,942
5. Average groundwater extraction rate (gpm): 1.9
6. Quantity of dissolved phase contaminants removed during this time period in pounds: 7.3

B. FREE PRODUCT RECOVERY SYSTEM OPERATION:

1. Is free product (nonaqueous phase liquid) being recovered at this site? (Y/N) If yes, list method: No
2. Quantity of free product extracted during this time period (gallons, enter none if none): Not applicable
3. Average free product extraction rate (gpd): Not applicable

C. SYSTEM EFFECTIVENESS EVALUATION:

1. Is a contaminated groundwater plume fully contained in the capture zone? (Y/N) If no, explain: Yes
2. If free product is present, is the free product fully contained in capture zone? (Y/N) If no, explain: Not applicable
3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain.
4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.
a. Contaminant: Chromium; MW-112; 88,400 µg/L
b. Percent reduction necessary to reach ch. NR 140 ES and PAL: ES - 99.94%, PAL - 99.99%
c. Maximum contaminant concentration level in any monitoring well of that contaminant (µg/L): 88,400 (MW-112)
d. Maximum contaminant concentration level in any extraction well of that contaminant (µg/L): 2,500 (Outfall 001)
e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer. System designed for containment, not treatment.

D. ADDITIONAL ATTACHMENTS: Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable.
- Groundwater contour map with capture zone indicated.
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
 - Graph of contaminant concentrations versus time for each extraction well in use during the period.
 - Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Well Specific Field Sheets

Facility Name: N.W. Mauthe
 Date: April 16, 2008
 Weather Conditions: Partly sunny, 48-65°F, southwest wind 20+mph
 Person(s) Sampling: Brian Wayner
 Sampling Equipment: Solonist 101 water level meter, Peristaltic pump - micro purge, DO probe, ORP (Oakton 300 pH meter), pH/Conductivity (Oakton pH/Con. 10 meter)

Well Name	W-2	W-8	W-15	MW-101	MW-102
WI Unique Well No.					
Top of PVC Casing Elevation (MSL)	804.66	803.36	803.42	807.59	804.37
Ground Surface Elevation (MSL)					
Depth to Bottom of Well (ft)					
Screen Top (MSL)					
Screen Bottom (MSL)					
Screen Length (ft)					
Water Elevation (MSL)	798.75	797.25	803.42	803.83	781.13
Water Elevation (ft from ground surface)	-798.75	-797.25	-803.42	-803.83	-781.13
Measured Depth to Water (ft)	5.91	6.11		3.76	23.2
Micro Purge Pump Setting	--	--	--	3.0	4.0
Time Purging Begun	--	--	--	6:44 PM	1:37 PM
Time Purging Completed	--	--	--	6:59 PM	1:52 PM
Amount Purged (gal)	--	--	--	-1.25	-1
Purged Dry? (Y/N)	--	--	--	N	N
Temperature (°C)	--	--	--	10.5	14.1
Conductivity (µS)	--	--	--	--	--
pH (std. units)	--	--	--	6.94	7.1
DO Reading (mg/L)	--	--	--	1.62	2.64
ORP (mV)	--	--	--	309	179.9
Ferrous Iron (mg/L)	--	--	--	--	--
Color (Y/N)	--	--	--	N	N
Odor (Y/N)	--	--	--	N	N
Turbidity (Y/N)	--	--	--	N	N
Sampling Parameters	n/a	n/a	n/a	Filtered Cr	Filtered Cr
Time Sample Withdrawn	--	--	--	7:00 PM	1:53 PM
Sample field filtered? (Y/N)	n/a	n/a	n/a	Y	Y
Time filtered	--	--	--	7:00 PM	1:53 PM
Well secured? (Y/N)	Y	Y	Y	Y	Y

Well Specific Field Sheets

Facility Name: N.W. Mauthe
 Date: April 16, 2008
 Weather Conditions: Partly sunny, 48-65°F, southwest wind 20+mph
 Person(s) Sampling: Brian Wayner
 Sampling Equipment: Solonist 101 water level meter, Peristaltic pump - micro purge, DO probe, ORP (Oakton 300 pH meter), pH/Conductivity (Oakton pH/Con. 10 meter)

Well Name	MW-103	MW-104	MW-105	MW-106	MW-107
WI Unique Well No.					
Top of PVC Casing Elevation (MSL)	803.74	807.28	803.46	803.83	809.06
Ground Surface Elevation (MSL)					
Depth to Bottom of Well (ft)					
Screen Top (MSL)					
Screen Bottom (MSL)					
Screen Length (ft)					
Water Elevation (MSL)	796.68	799.40	799.93	798.18	800.14
Water Elevation (ft from ground surface)	-796.68	-799.40	-799.93	-798.18	-800.14
Measured Depth to Water (ft)	7.06	7.88	3.53	5.65	8.92
Micro Purge Pump Setting	4.0	4.0	—	—	3.0
Time Purging Begun	12:25 PM	11:46 AM	—	—	2:44 PM
Time Purging Completed	12:40 PM	12:01 PM	—	—	2:59 PM
Amount Purged (gal)	~1	~1	—	—	~1
Purged Dry? (Y/N)	N	N	—	—	N
Temperature (°C)	12.0	13.9	—	—	13.5
Conductivity (µS)	556	853	—	—	—
pH (std. units)	7.09	6.96	—	—	7.3
DO Reading (mg/L)	0.83	1.74	—	—	2.12
ORP (mV)	233	157.0	—	—	197.9
Ferrous Iron (mg/L)	—	—	—	—	—
Color (Y/N)	N	N	—	—	yellow hue
Odor (Y/N)	N	N	—	—	N
Turbidity (Y/N)	N	N	—	—	N
Sampling Parameters	Filtered Cr	Filtered Cr	n/a	n/a	Filtered Cr, VOCs
Time Sample Withdrawn	12:41 PM	12:03 PM	—	—	3:00 PM
Sample field filtered? (Y/N)	Y	Y	n/a	n/a	Y-Cr
Time filtered	12:41 PM	12:03 PM	—	—	3:00 PM
Well secured? (Y/N)	Y	Y	Y	Y	Y

Well Specific Field Sheets

Facility Name: N.W. Mauthe
 Date: April 16, 2008
 Weather Conditions: Partly sunny, 48-65°F, southwest wind 20+mph
 Person(s) Sampling: Brian Wayner
 Sampling Equipment: Solonist 101 water level meter, Peristaltic pump - micro purge, DO probe, ORP (Oakton 300 pH meter), pH/Conductivity (Oakton pH/Con. 10 meter)

Well Name	MW-108	MW-109	MW - 110	MW - 111	MW - 112
WI Unique Well No.		PI420	PI424	PI422	PI423
Top of PVC Casing Elevation (MSL)	806.61	810.52	809.81	807.59	808.14
Ground Surface Elevation (MSL)		807.41	807.03	805.05	805.51
Depth to Bottom of Well (ft)		22.78	22.48	22.60	22.76
Screen Top (MSL)		802.74	802.33	799.99	800.38
Screen Bottom (MSL)		787.74	787.33	784.99	785.38
Screen Length (ft)		15	15	15	15
Water Elevation (MSL)	805.34	802.84	801.50	802.13	801.57
Water Elevation (ft from ground surface)	-805.34	4.57	5.53	2.92	3.94
Measured Depth to Water (ft)	1.27	7.68	8.31	5.46	6.57
Micro Purge Pump Setting	—	3.0	3.0	3.0	3.0
Time Purging Begun	—	3:33 PM	6:07 PM	4:13 PM	4:48 PM
Time Purging Completed	—	3:48 PM	6:22 PM	4:28 PM	5:03 PM
Amount Purged (gal)	—	~1.25	~1.25	~1.25	~1.25
Purged Dry? (Y/N)	—	N	N	N	N
Temperature (°C)	—	12.4	9.5	11.6	12.9
Conductivity (µS)	—	—	—	—	—
pH (std. units)	—	7.10	7.38	7.40	7.50
DO Reading (mg/L)	—	0.75	2.25	2.25	2.44
ORP (mV)	—	248	285	244	270
Ferrous Iron (mg/L)	—	—	—	—	—
Color (Y/N)	—	N	yellow	N	yellow
Odor (Y/N)	—	N	N	N	N
Turbidity (Y/N)	—	N	N	N	N
Sampling Parameters	n/a	Filtered Cr, VOCs	Filtered Cr, Cyanide, VOCs	Filtered Cr, Cyanide, VOCs	Filtered Cr, Cyanide, VOCs
Time Sample Withdrawn	—	3:49 PM	6:22 PM	4:29 PM	5:04 PM
Sample field filtered? (Y/N)	n/a	Y-Cr	Y-Cr	Y-Cr	Y-Cr
Time filtered	—	3:49 PM	6:22 PM	4:29 PM	5:04 PM
Well secured? (Y/N)		Y	Y	Y	Y

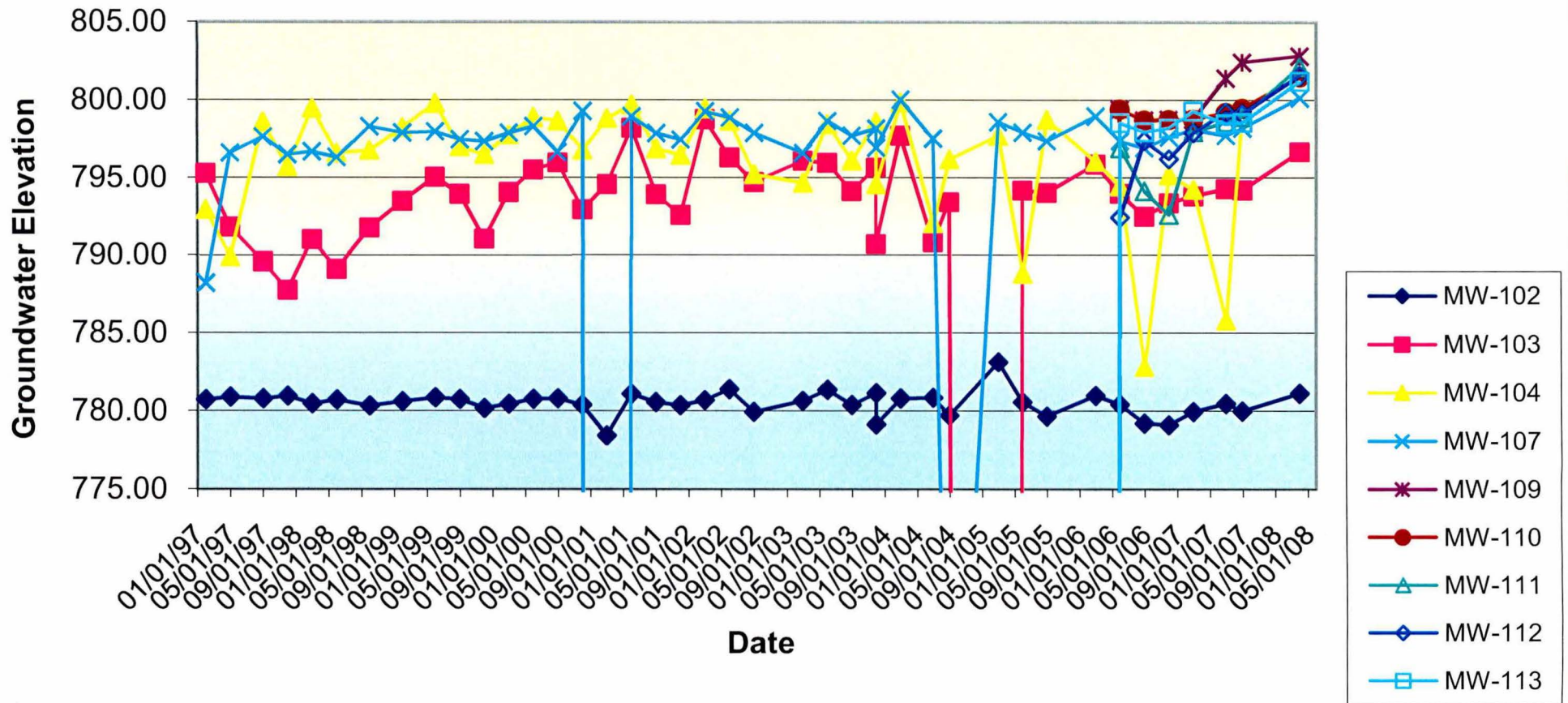
Well Specific Field Sheets

Facility Name: N.W. Mauthe
 Date: April 16, 2008
 Weather Conditions: Partly sunny, 48-65°F, southwest wind 20+mph
 Person(s) Sampling: Brian Wayner
 Sampling Equipment: Solonist 101 water level meter, Peristaltic pump - micro purge, DO probe, ORP (Oakton 300 pH meter), pH/Conductivity (Oakton pH/Con. 10 meter)

Well Name	MW - 113	PZ-5	PZ-6	PZ-7	PZ-8
WI Unique Well No.	PI421	PI412	PI411	PI410	PI409
Top of PVC Casing Elevation (MSL)	808.24	810.88	809.77	804.48	804.35
Ground Surface Elevation (MSL)	805.62	807.83	806.97	804.60	804.52
Depth to Bottom of Well (ft)	22.57	43.00	43.08	35.28	36.31
Screen Top (MSL)	800.67	772.88	771.69	774.20	773.04
Screen Bottom (MSL)	785.67	767.88	766.69	769.20	768.04
Screen Length (ft)	15	5	5	5	5
Water Elevation (MSL)	801.21	810.88	809.77	804.48	804.35
Water Elevation (ft from ground surface)	4.41	-3.05	-2.80	0.12	0.17
Measured Depth to Water (ft)	7.03	27.83	28.97	23.83	21.00
Micro Purge Pump Setting	3.0	-	-	-	-
Time Purging Begun	5:35 PM	-	-	-	-
Time Purging Completed	5:50 PM	-	-	-	-
Amount Purged (gal)	~1.25	-	-	-	-
Purged Dry? (Y/N)	N	-	-	-	-
Temperature (°C)	11.8	-	-	-	-
Conductivity (µS)	-	-	-	-	-
pH (std. units)	7.45	-	-	-	-
DO Reading (mg/L)	1.85	-	-	-	-
ORP (mV)	267	-	-	-	-
Ferrous Iron (mg/L)	-	-	-	-	-
Color (Y/N)	yellow hue	-	-	-	-
Odor (Y/N)	N	-	-	-	-
Turbidity (Y/N)	N	-	-	-	-
Sampling Parameters	Filtered Cr, VOCs	n/a	n/a	n/a	n/a
Time Sample Withdrawn	17:50	-	-	-	-
Sample field filtered? (Y/N)	Y-Cr	n/a	n/a	n/a	n/a
Time filtered	17:50	-	-	-	-
Well secured? (Y/N)	Y	Y	Y	Y	Y

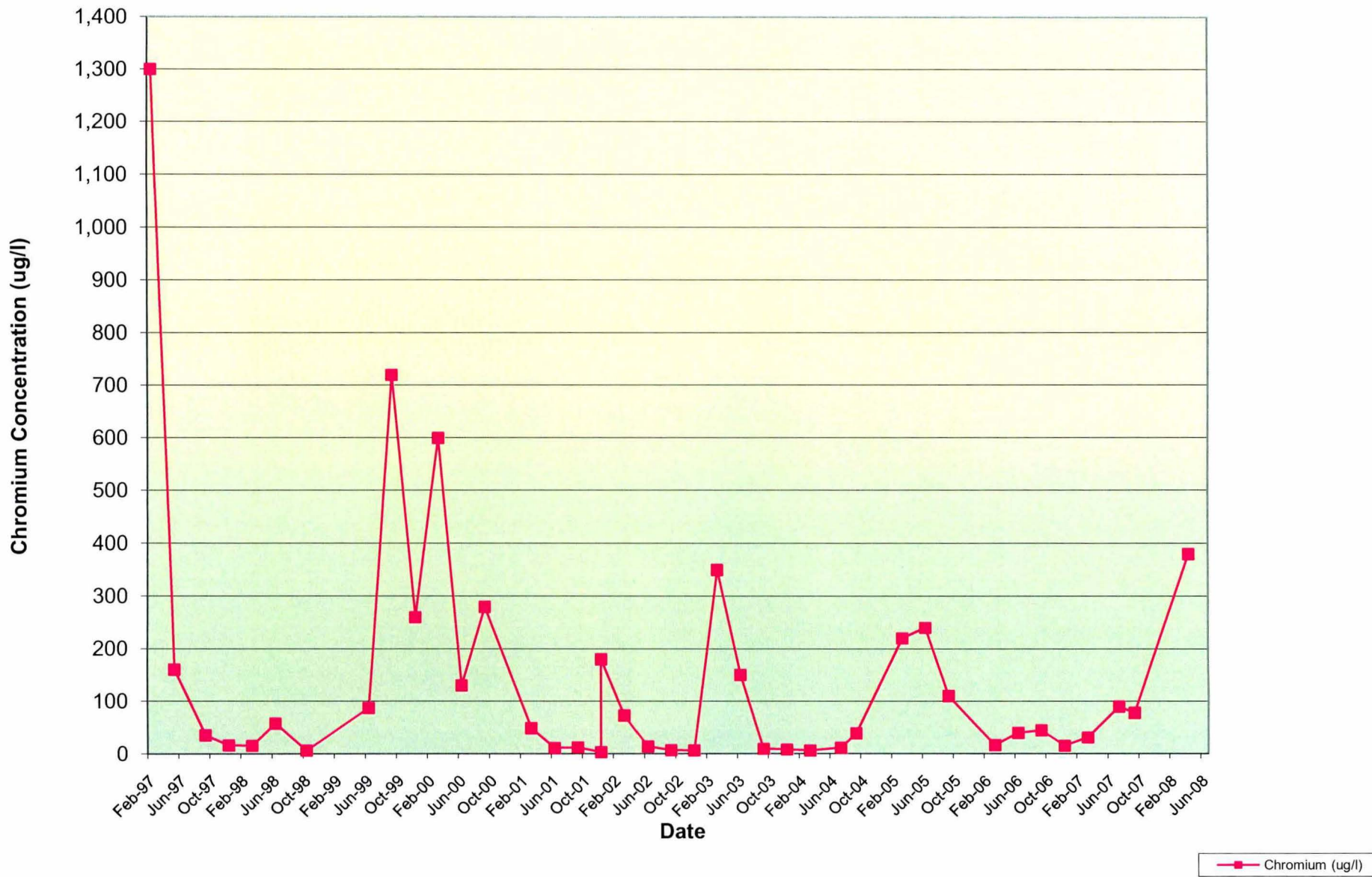
Graph Set 1
Groundwater Elevations Versus Time Graphs
(MW-102, MW-103, MW-104, MW-107, and MW-109 through MW-113)

GROUNDWATER ELEVATIONS VS. TIME GRAPHS

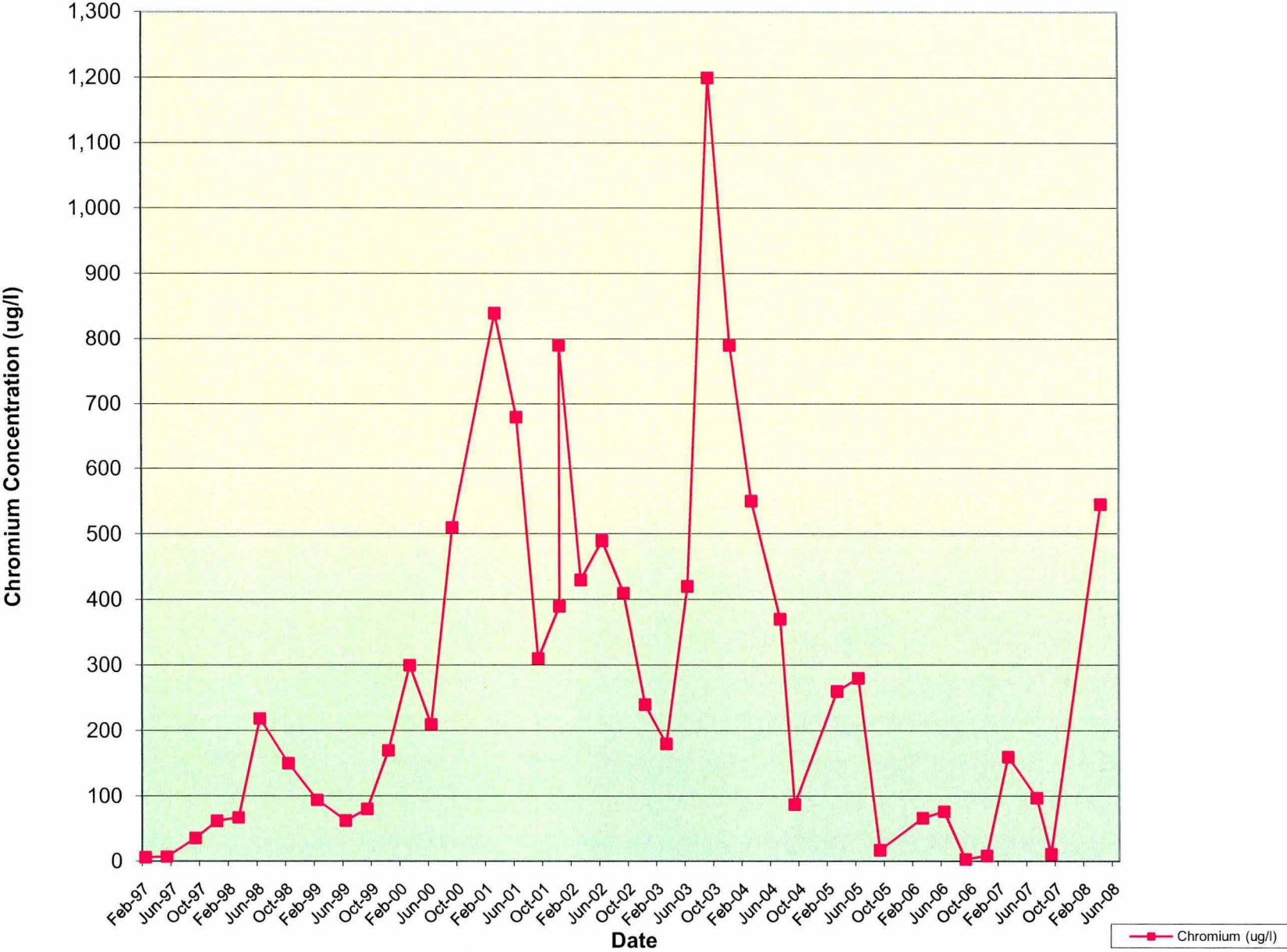


Graph Set 2
Chromium Versus Time Graphs
(MW-103, MW-104, MW-107, and MW-109 through MW-113)

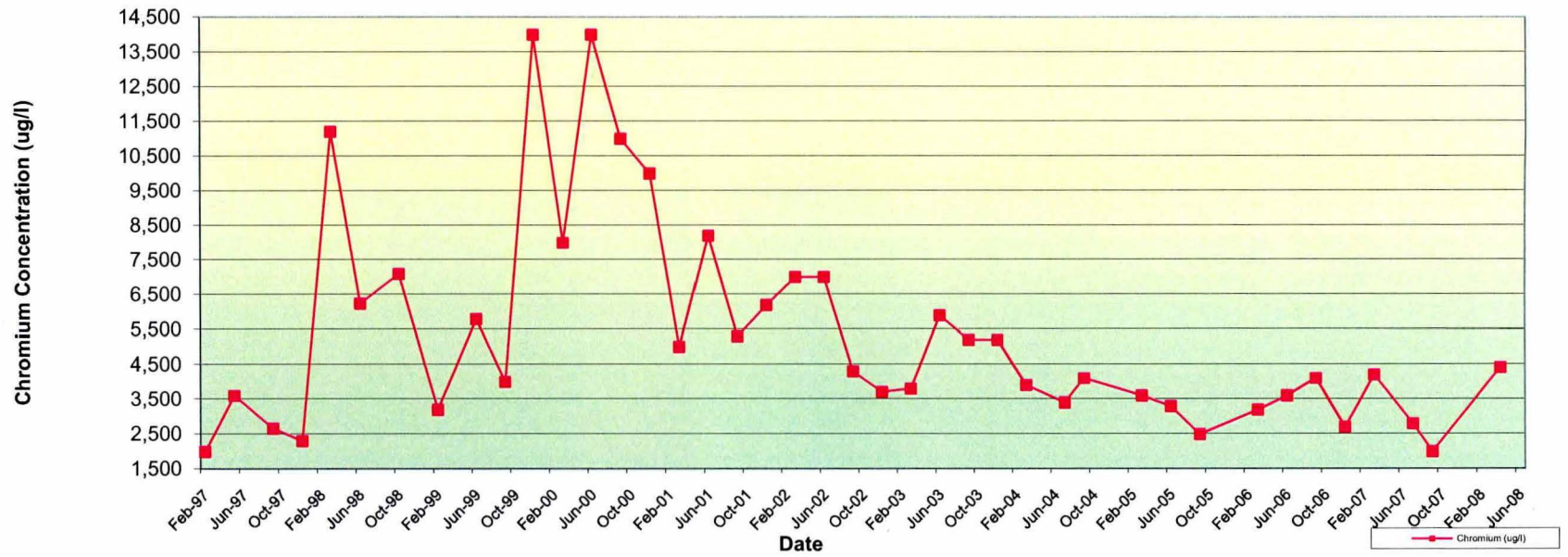
Well W-103 / Concentration Vs. Time



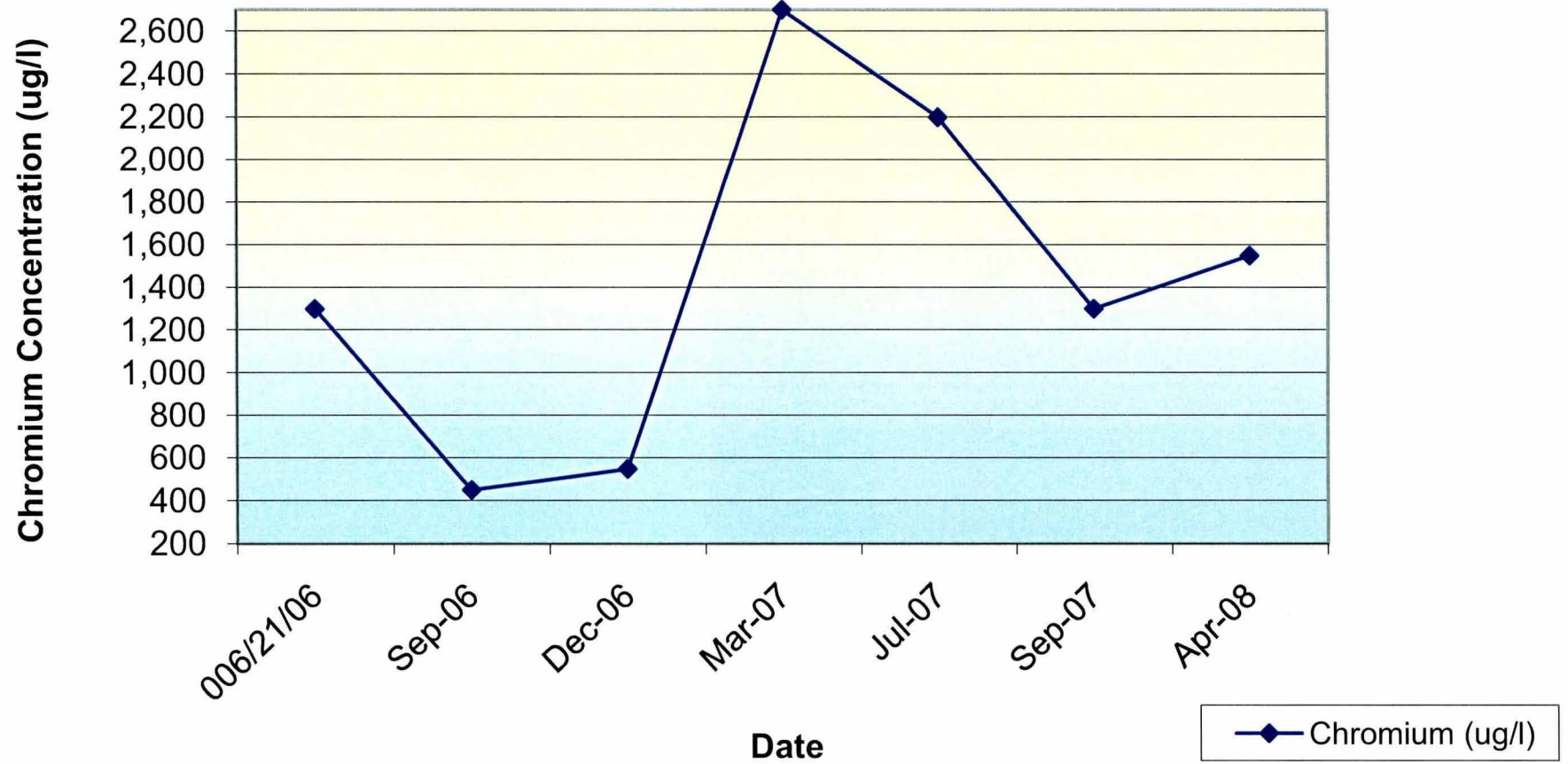
Well W-104 / Concentration Vs. Time

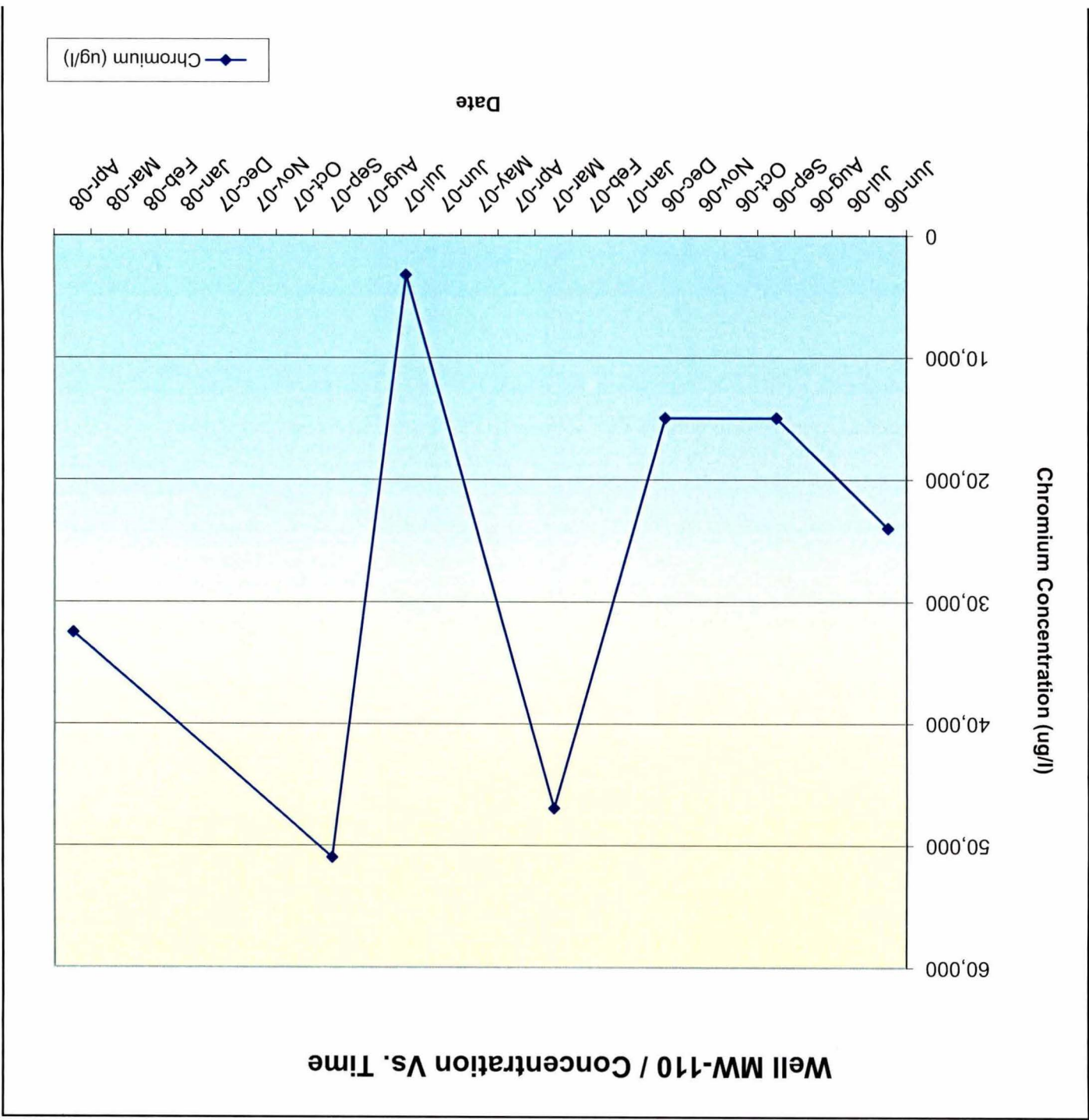


Well W-107 / Concentration Vs. Time

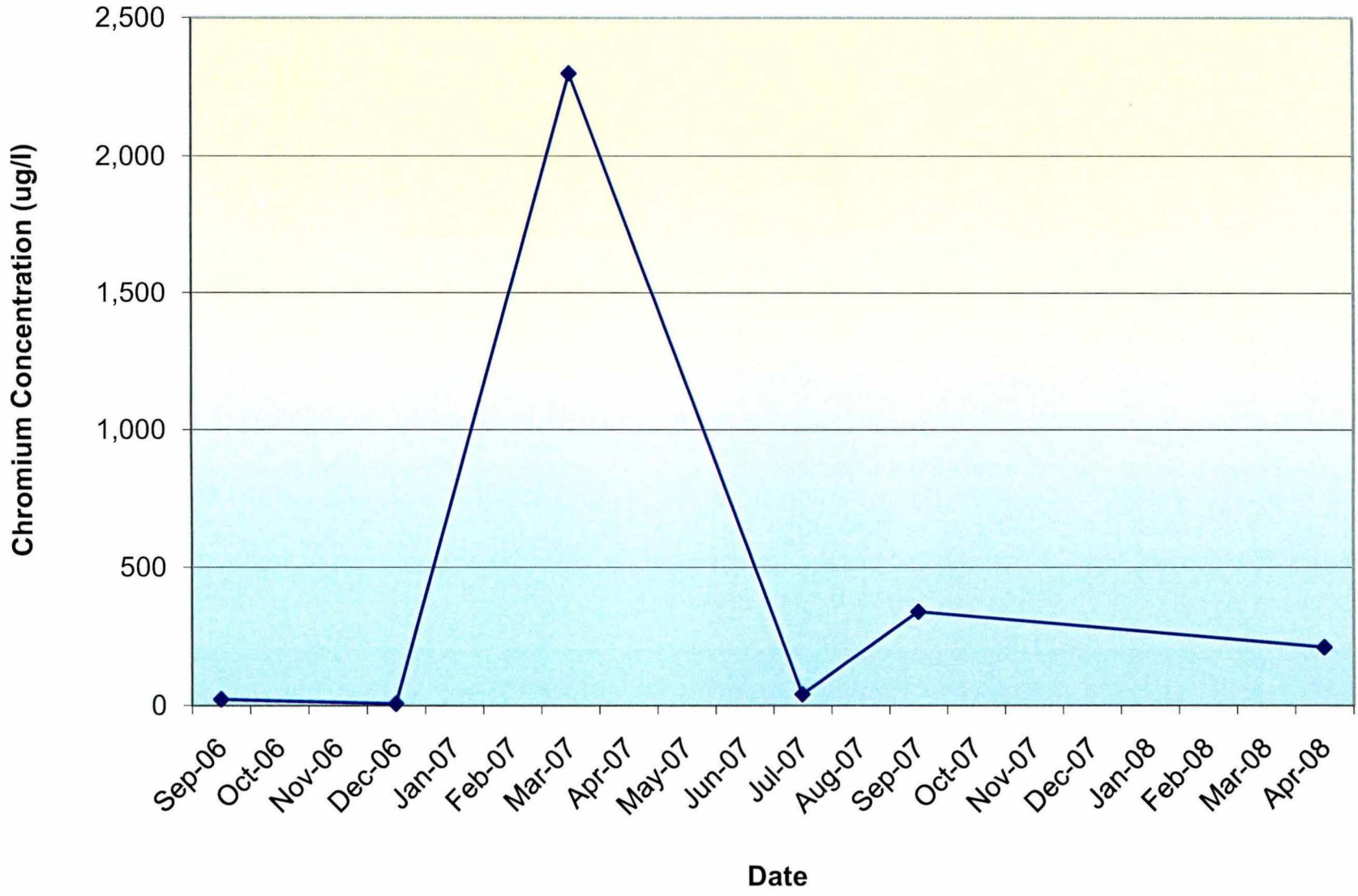


Well MW-109 / Concentration Vs. Time



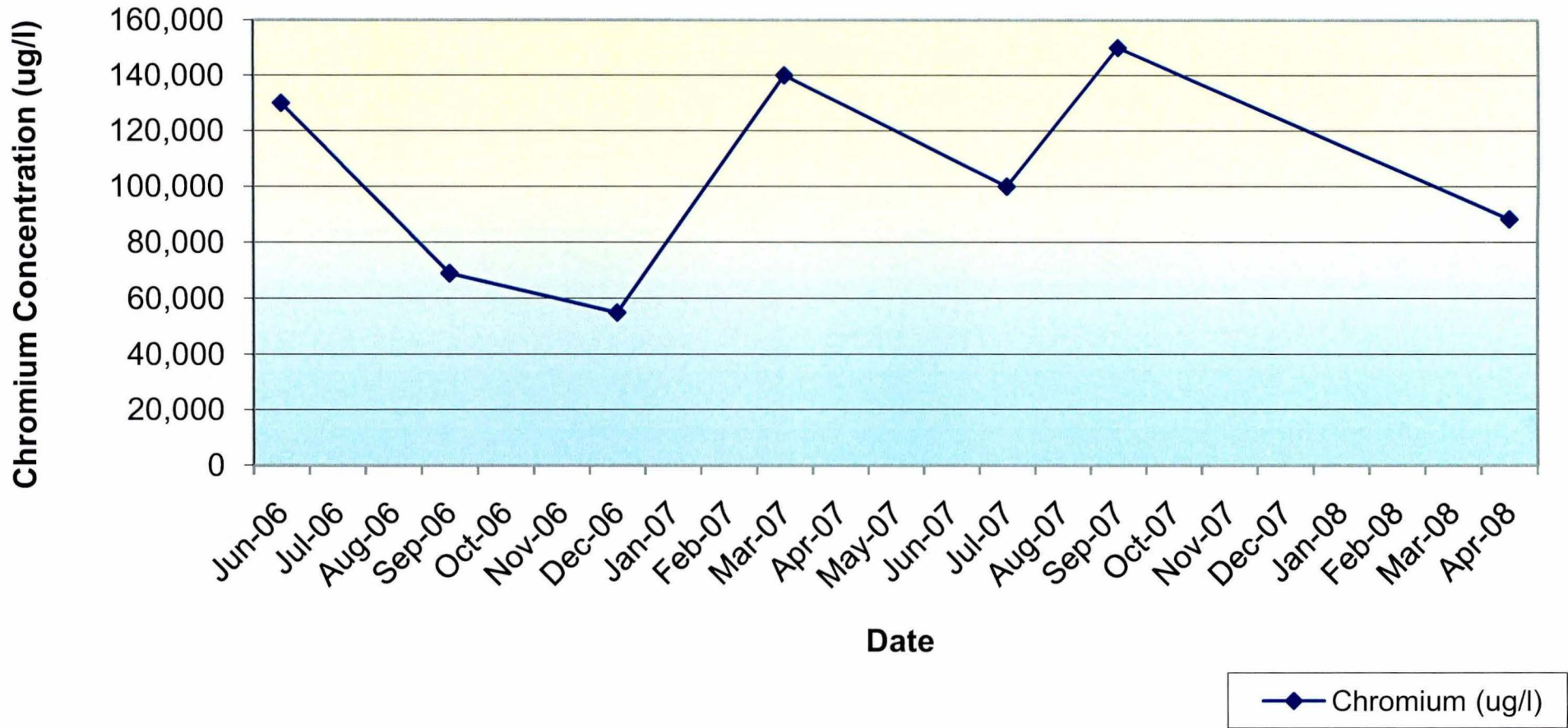


Well MW-111 / Concentration Vs. Time

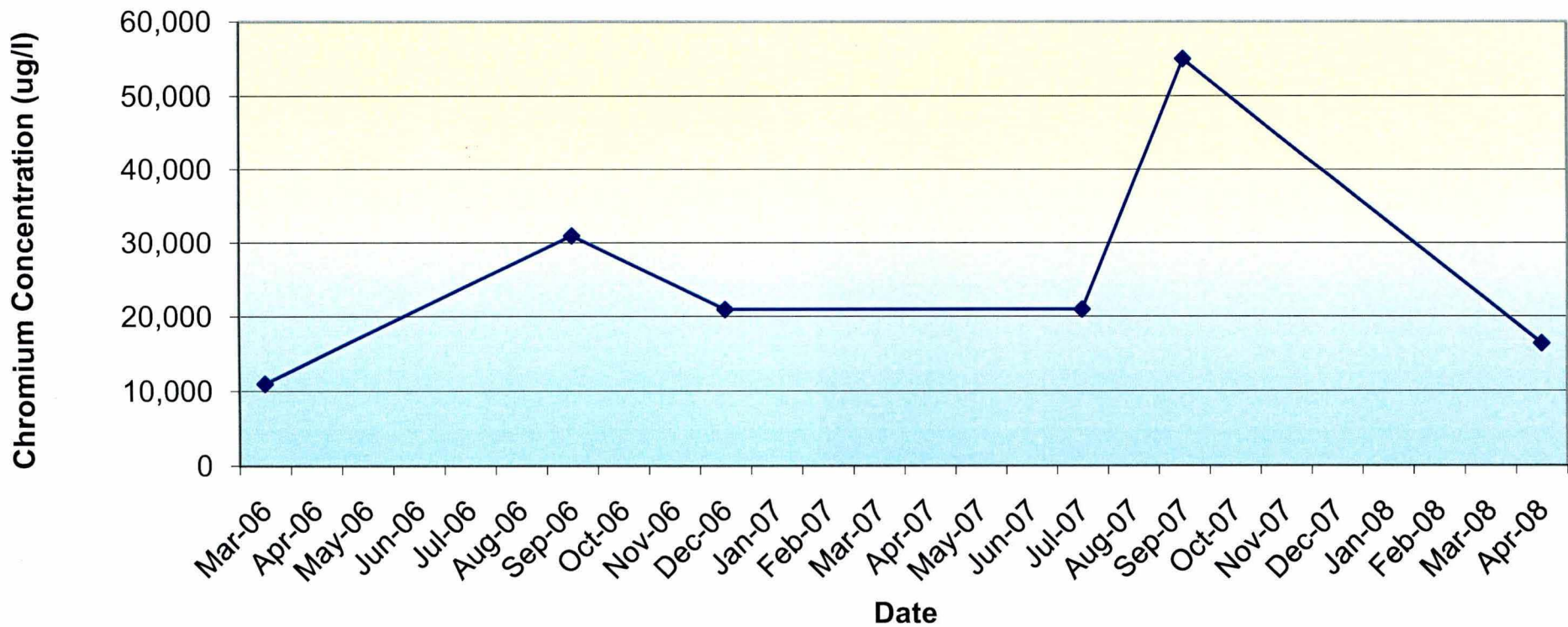


◆ Chromium (ug/l)

MW-112 / Concentration Vs. Time



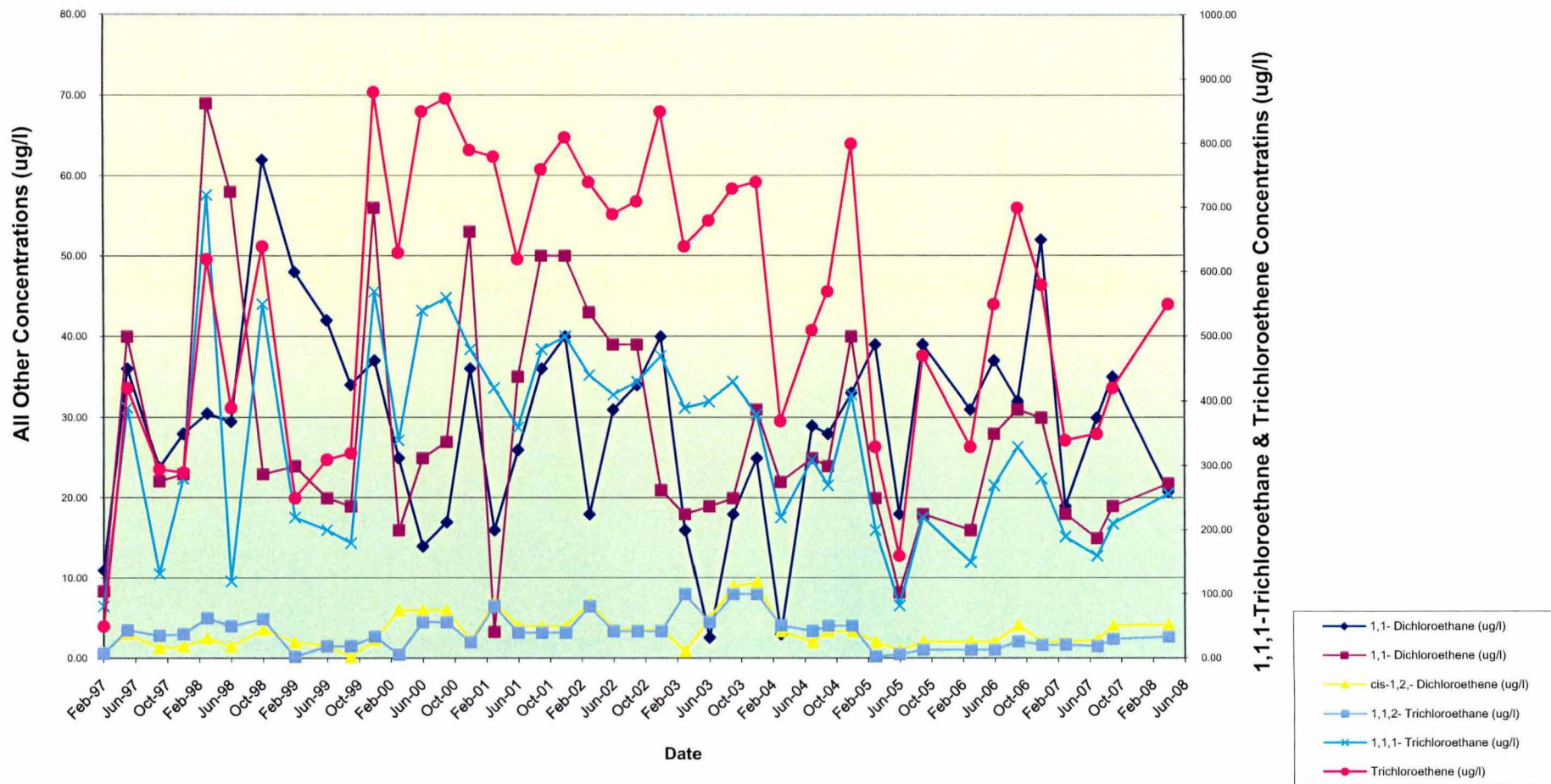
Well MW-113 / Concentration Vs. Time



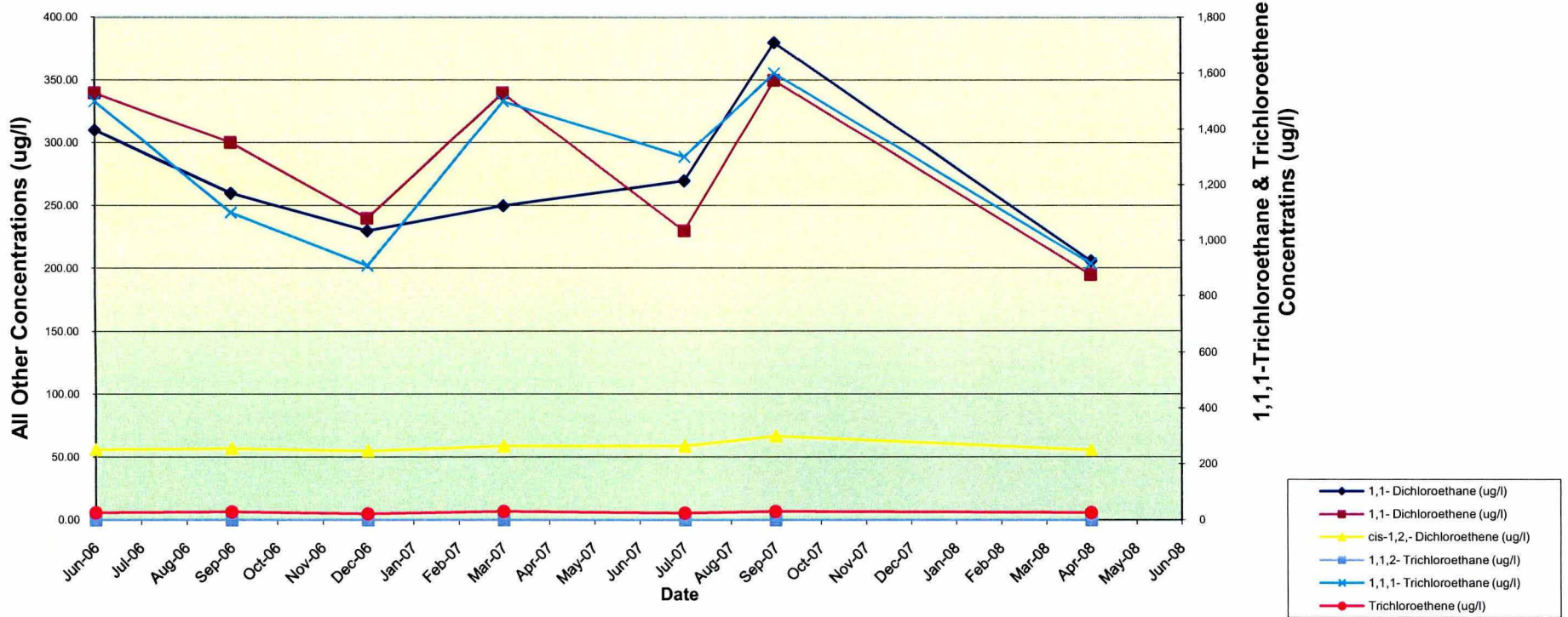
—◆— Chromium (ug/l)

Graph Set 3
Volatile Organic Compounds (VOCs) Versus Time Graphs
(MW-107, MW-110 & MW-113)

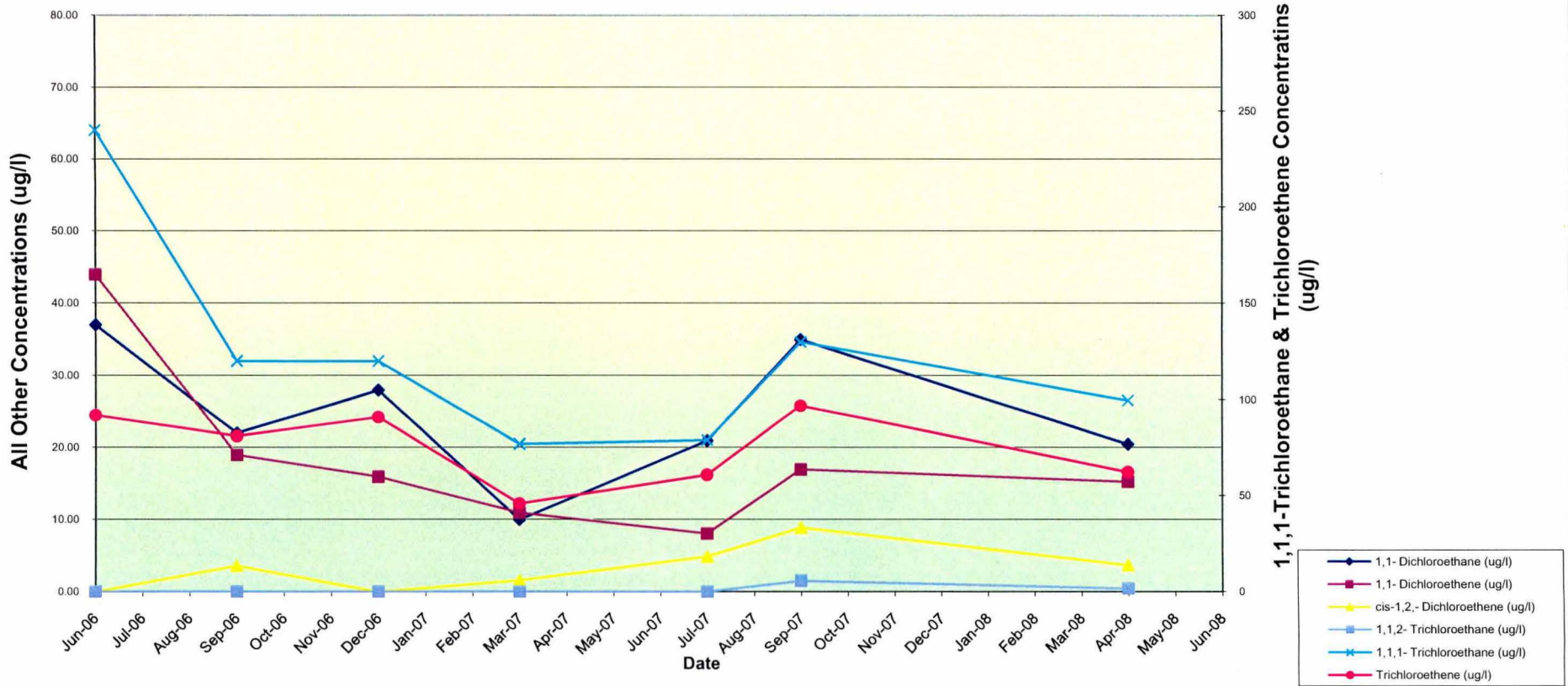
Volatile Organic Compounds (VOC's) Contamination Vs. Time MW-107



Volatile Organic Compounds (VOC's) Contamination Vs. Time MW-110



Volatile Organic Compounds (VOC's) Contamination Vs. Time
MW-113





1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 889757

Client: OMNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number: N1866A05/003

Lab Sample Number	Field ID	Matrix	Collection Date
889757-001	OUTFALL 001	WATER	10/16/07 07:41

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Brian Basten
Approval Signature

10-18-07
Date

Client : OMNNI ASSOCIATES, INC.

Project Name : MAUTHE

Project Number : N1866A05/003

Field ID : OUTFALL 001

Matrix Type : WATER

Collection Date : 10/16/07

Report Date : 10/17/07

Lab Sample Number : 889757-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium, Hexavalent	1700	42	140		1	ug/L	H	10/17/07 08:30 AM	SM 3500 Cr-B	SM 3500 Cr-B
								Prep Date/Time:	10/17/07 08:30 AM	Anl By: DEY

**Pace Analytical
Services, Inc.**

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
889757-001	W-CR+6-W	OUTFALL 001	H - Analysis performed one hour past holding time.

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

889757-001

Test Group Name

CHROMIUM, HEXAVALENT

B

Code	WI Certification
------	------------------

B	405132750 / DATCP: 105-444
---	----------------------------

Batch: 889757
Lab Section: WETCHEM
QC Batch Number: 25748
Prep Method: SM 3500 Cr-B
Analytical Method: SM 3500 Cr-B

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2270-064MB	WCG2270-064MB
LCS	WCG2270-064MBLCS	WCG2270-064MBLCS
MS	OUTFALL 001MS	889757-001MS
MSD	OUTFALL 001MSD	889757-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	889757-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCS Recovery			LCS/LCS RPD % C	LCS/LCS Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits		
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
											%	%	%													%	%
Chromium, Hexavalent	<	3.4	300.00	303.9	101.3		---	---	---		90	110	20	889757-001	1662.6	3750.0	5600.1	105.0		3750.0	5460.5	101.3		2.5	90	110	20

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 10/17/2007

QC Batch Number: 25748



Sample Condition Upon Receipt

Client Name: OMNI ASSOC Project # 889757

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 N/A Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature ROI
Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/16/07 KJL
10/16/07 #9

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>HEX CHROMIUM</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature] Date: 10-17-07

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)

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: OMNI ASSOCIATES		Report To: BRIAN WAYNER		Attention: BRIAN WAYNER	
Address: ONE SYSTEMS DRIVE		Copy To:		Company Name: OMNI	
APPLETON, WI 54914		Purchase Order No.:		Address:	
Email To: bwayner@omni.com		Project Name: MAUTHE		Pace Quote Reference: MAUTHE	
Phone: 920/830-6411 Fax: 920/830-6100		Project Number: N186A05/003		Pace Project Manager: B. BASTEN	
Requested Due Date/TAT:		Project Number: N186A05/003		Pace Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA Other _____

SITE LOCATION GA IL IN MI MN NC
 OH SC WI OTHER _____

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / -)

Samples IDs MUST BE UNIQUE

Valid Matrix Codes	CODE
MATRIX	DW
DRINKING WATER	WT
WATER	WW
WASTE WATER	P
PRODUCT	SL
SOIL/SOLID	OL
OIL	WP
WIPE	AR
AIR	OT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	
				DATE	TIME	DATE	TIME											
1	OUTFALL 001	WWA	G	10/16/07	7:41				1	X								
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Filtered (Y/N)

Requested Analysis:

HEX CHLORIDE

Residual Chlorine (Y/N)

889757

Pace Project Number

Lab I.D

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
B. Wayne	10/16/07	8:30	B. Kemper	10/16/07	0920	Y/N Y/N Y/N
B. Kemper	10/16/07	1410	KJ Beckman	10/16	1410	ROT Y/N Y/N Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
BRIAN WAYNER

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY)

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



1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 890024

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number: N1866A05-003

Lab Sample Number	Field ID	Matrix	Collection Date
890024-001	OUTFALL 001	WATER	10/23/07 06:10

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



[Handwritten Signature]
Approval Signature

10-25-07
Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 890024

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : OMNNI ASSOCIATES, INC.
Project Name : MAUTHE
Project Number : N1866A05-003
Field ID : OUTFALL 001

Matrix Type : WATER
Collection Date : 10/23/07
Report Date : 10/24/07
Lab Sample Number : 890024-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium, Hexavalent	1500	42	140		1	ug/L		10/23/07 04:30 PM	SM 3500 Cr-B	SM 3500 Cr-B
								Prep Date/Time:		Anl By: DEY

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

890024-001

Test Group Name

CHROMIUM, HEXAVALENT

B

Code	WI Certification
B	405132750 / DATCP: 105-444

Batch: 890024
Lab Section: WETCHEM
QC Batch Number: 25946
Prep Method: SM 3500 Cr-B
Analytical Method: SM 3500 Cr-B

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2270-068MB	WCG2270-068MB
LCS	WCG2270-068MBLCS	WCG2270-068MBLCS
MS	OUTFALL 001MS	890024-001MS
MSD	OUTFALL 001MSD	890024-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	890024-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCS Recovery			LCS/LCS RPD % C	LCS/LCS Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits		
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
											%	%	%								%	%	%		%	%	%
Chromium, Hexavalent	< 3.4	300.00	295	98.3	C	---	---	---	C	---	90	110	20	890024-001	1474.1	3750.0	5167.2	98.5	C	3750.0	5299.9	102.0	C	2.5	90	110	20

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 10/24/2007

QC Batch Number: 25946



Sample Condition Upon Receipt

Client Name: OMNI

Project # 890024

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
Tracking #: _____

Optional:
Print Due Date:
Print Name:

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

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used N/A Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature POI Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/23/07 KDL
110/23/07

Temp should be above freezing to 6°C Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>HEXA CHROME</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature] Date: 10-24-07

(Please Print Clearly)

Company Name: **OMNNI ASSOCIATES**
 Branch/Location: **APPLETON**
 Project Contact: **BRIAN WAYNER**
 Phone: **920/830-6141**
 Project Number: **N1866A05/003**
 Project Name: **MAUTHE**
 Project State: **WI**
 Sampled By (Print): **BRIAN WAYNER**
 Sampled By (Sign): *Brian J. Wayner*
 PO #:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

COC No.

029592

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #: **MAUTHE**
 Mail To Contact: **BRIAN WAYNER**
 Mail To Company: **OMNNI ASSOCIATES**
 Mail To Address: **ONE SYSTEMS DRIVE
 APPLETON, WI 54914**
 Invoice To Contact: **BRIAN WAYNER**
 Invoice To Company: **OMNNI**
 Invoice To Address:
 Invoice To Phone: **920/830-6141**
 CLIENT COMMENTS: **LAB COMMENTS (Lab Use Only)**
 Profile #: **1-250 mL Poly**

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
001	OUTFALL 001	10/23/07	6:10	GW	N	A	HEXAVALENT CHROMIUM

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>Brian J. Wayner</i>	Date/Time: 10/23/07 7:10	Received By: <i>D. Mielke</i>	Date/Time: 10/23/07 8:45
Relinquished By: <i>D. Mielke</i>	Date/Time: 10/23/07 14:05	Received By: <i>A. J. ...</i>	Date/Time: 10/23/07 14:05
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. **890024**
 Receipt Temp = **ROT** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact



1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 890301

Client: OMNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number: N1866A05/003

Lab Sample Number	Field ID	Matrix	Collection Date
890301-001	OUTFALL 001	WATER	10/30/07 06:25

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



[Handwritten Signature]
Approval Signature

11-1-07
Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 890301

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : OMNNI ASSOCIATES, INC.

Project Name : MAUTHE

Project Number : N1866A05/003

Field ID : OUTFALL 001

Matrix Type : WATER

Collection Date : 10/30/07

Report Date : 11/01/07

Lab Sample Number : 890301-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium, Hexavalent	1900	42	140		1	ug/L		10/30/07 02:40 PM	SM 3500 Cr-B	SM 3500 Cr-B
								Prep Date/Time:	10/30/07 02:40 PM	Anl By: DEY

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

890301-001

Test Group Name

CHROMIUM, HEXAVALENT

B

Code	WI Certification
B	405132750 / DATCP: 105-444

Batch: 890301
Lab Section: WETCHEM
QC Batch Number: 26187
Prep Method: SM 3500 Cr-B
Analytical Method: SM 3500 Cr-B

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2270-072MB	WCG2270-072MB
LCS	WCG2270-072MBLCS	WCG2270-072MBLCS
MS	OUTFALL 001MS	890301-001MS
MSD	OUTFALL 001MSD	890301-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	890301-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCS Recovery			LCS/LCS RPD % C	LCS/LCS Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits				
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD		
			%	%	%		%	%	%		%	%	%				%	%	%		%	%	%		%	%	%		
Chromium, Hexavalent	<	3.4	300.00	307.8	102.6		---	---	---	---	90	110	20	890301-001	1900.0	3750.0	5635	99.6		3750.0	5481.4	95.5		2.8			90	110	20

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifer Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 11/1/2007

QC Batch Number: 26187



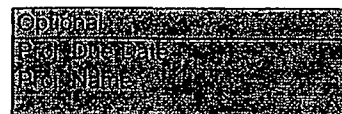
Sample Condition Upon Receipt

Client Name: OMNI ASSOC Project # 890301

Courier: [] Fed Ex [] UPS [] USPS [] Client [] Commercial [X] Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: [] yes [X] no Seals intact: [] yes [] no



Packing Material: [] Bubble Wrap [] Bubble Bags [X] None [] Other

Thermometer Used N/A Type of Ice: Wet Blue None [] Samples on ice, cooling process has begun

Cooler Temperature ROT Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: JF 10/30/07

Temp should be above freezing to 6°C

Comments:

Table with 16 rows of checklist items including Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr): HEXA CHROME, Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, All containers needing preservation are found to be in compliance with EPA recommendation, exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Samples checked for dechlorination, Headspace in VOA Vials (>6mm), Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot # (if purchased):

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 10-31-07

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)

(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

031264

Company Name: OMNNI ASSOCIATES
 Branch/Location: APPLRTON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian D. Wayner*
 PO #: _____ Regulatory Program: _____



COC No. _____

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLTON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNNI
 Invoice To Address: _____
 Invoice To Phone: _____

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)	PRESERVATION (CODE)*	Y/N	Pick Letter	Analyses Requested	HEAVY METALS	CHROMIUM
		N	A			
					X	

Data Package Options
(billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	OUTFALL 001	10/30/07	6:25	GW

CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

1-250 ml Poly

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____

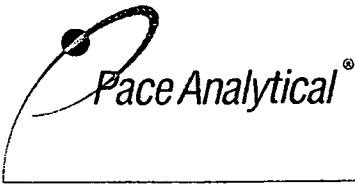
Transmit Prelim Rush Results by (complete what you want):

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>Brian D. Wayner</i> Date/Time: 10/30/07 6:45am	Received By: <i>B Kempner</i> Date/Time: 10/30/07 0845
Relinquished By: <i>B Kempner</i> Date/Time: 10/30/07 1400	Received By: <i>R J...</i> Date/Time: 10/30 1400
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____

PACE Project No. 890301
 Receipt Temp = *ReLU* °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact



1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 890575

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number: N1866A05/003

Lab Sample Number	Field ID	Matrix	Collection Date
890575-001	OUTFALL 001	WATER	11/06/07 07:31

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Brian Basten
Approval Signature

11-30-07
Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 890575

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : OMNI ASSOCIATES, INC.

Project Name : MAUTHE

Project Number : N1866A05/003

Field ID : OUTFALL 001

Matrix Type : WATER

Collection Date : 11/06/07

Report Date : 11/30/07

Lab Sample Number : 890575-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium - Dissolved	1300	0.43	1.4		1	ug/L		11/28/07 07:00 AM	SW846 3020A	SW846 6020
								Prep Date/Time: 11/27/07 09:05 AM		Anl By: MSB
Chromium, Hexavalent	1900	34	110		1	ug/L		11/07/07 07:10 AM	SM 3500 Cr-B	SM 3500 Cr-B
								Prep Date/Time: 11/07/07 07:10 AM		Anl By: DDY

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

890575-001

Test Group Name

CHROMIUM - DISSOLVED	B
CHROMIUM, HEXAVALENT	B

Code	WI Certification
B	405132750 / DATCP: 105-444

Batch: 890575
Lab Section: METALS
QC Batch Number: 26928
Prep Method: SW846 3020A
Analytical Method: SW846 6020

QC Type	Client Sample ID	Lab Sample ID
MB	MBDMTG2324-31	MBDMTG2324-31
LCS	LCSDMTG2324-31	LCSDMTG2324-31
MS	891196-001MS	891196-001MS
MSD	891196-001MSD	891196-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	890575-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCSD Recovery			LCS/LCS D RPD			LCS/LCS D Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits		
			Conc	%	C		Conc	%	C	%	%	%	LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
Chromium - Dissolved	< 0.43	200.0	186.1	93.1		--	--	--	--	75	125	20	891196-001	1.020	200.0	172.6	85.8		200.0	182.8	90.9		5.7	75	125	20			

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 11/30/2007

QC Batch Number: 26928

Batch: 890575
Lab Section: WETCHEM
QC Batch Number: 26398
Prep Method: SM 3500 Cr-B
Analytical Method: SM 3500 Cr-B

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2270-076MB	WCG2270-076MB
LCS	WCG2270-076MBLCS	WCG2270-076MBLCS
MS	OUTFALL 001MS	890575-001MS
MSD	OUTFALL 001MSD	890575-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	890575-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCS Recovery			LCS/LCSD RPD % C	LCS/LCSD Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits		
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
Chromium, Hexavalent	< 3.4	300.00	324	108.0	C	--	--	--	---	90	110	20	890575-001	1894.2	3000.0	4949.2	101.8	C	3000.0	4882.2	99.6	C	1.4	90	110	20	

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 11/30/2007

QC Batch Number: 26398



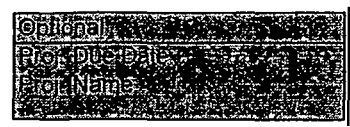
Sample Condition Upon Receipt

Client Name: Omni Assoc Project # 890575

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

Cooler Temperature ROT

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 11-6-07 eg

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>CRTO</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>GW</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>eg</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature] Date: 11-7-07

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)

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of 1

MN: 612-607-1700 WI: 920-469-2436

031265

Company Name: OMNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/063
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian Wayner*
 PO #:



CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

COC No.

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNI
 Invoice To Address:
 Invoice To Phone: 920/830-6141
 CLIENT COMMENTS: LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested															
		DATE	TIME																			
001	OUT FALL 001	11/6/07	7:31	GW	N	A	HEXAVALANT CHROMIUM CHROMIUM															
					Y	D																

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>Brian Wayner</i>	Date/Time: 11/6/07 9:20AM	Received By: <i>Shirley Bursky</i>	Date/Time: 11/6/07 0920
Relinquished By: <i>Shirley Bursky</i>	Date/Time: 11/6/07 1130	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 890575
 Receipt Temp = 201 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 891464

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number: N1866A05/003

Lab Sample Number	Field ID	Matrix	Collection Date
891464-001	OUTFALL 001	WATER	12/04/07 08:21

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



[Handwritten Signature]
Approval Signature

12-11-07
Date

Client : OMNI ASSOCIATES, INC.
Project Name : MAUTHE
Project Number : N1866A05/003
Field ID : OUTFALL 001

Matrix Type : WATER
Collection Date : 12/04/07
Report Date : 12/11/07
Lab Sample Number : 891464-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium - Dissolved	2500	0.43	1.4		1	.ug/L		12/07/07 05:16 PM	SW846 3020A	SW846 6020
								Prep Date/Time: 12/07/07 08:50 AM Anl By: MSB		
Chromium, Hexavalent	3100	42	140		1	ug/L		12/05/07 07:25 AM	SM 3500 Cr-B	SM 3500 Cr-B
								Prep Date/Time: 12/05/07 07:25 AM Anl By: DDY		

**Pace Analytical
Services, Inc.**

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
891464	M*-D	All Samples	X - Internal standard limits of 30-140% used. All QC within limits.

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

891464-001

Test Group Name

CHROMIUM - DISSOLVED	B
CHROMIUM, HEXAVALENT	B

Code	WI Certification
B	405132750 / DATCP: 105-444



Sample Condition Upon Receipt

Client Name: OMNI ASSOC Project # 891464

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 N/A Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature ROD

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 12/4/07 KSL
L112/4/07

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Hexachlorobenzene</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>KSL</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 12-4-07

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)

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of 1

MN: 612-607-1700 WI: 920-469-2436

✓/1
COC No. 031266



Company Name: OMNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian D. Wayner*

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	Y																	
Pick Letter	A	D																	
Analyses Requested	HEXAVALENT CHROMIUM	CHROMIUM																	

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNI
 Invoice To Address:
 Invoice To Phone: 920/830-6141
 CLIENT COMMENTS: LAB COMMENTS (Lab Use Only)
 Profile #: 2-250 mL Poly

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N	Y													
		DATE	TIME																	
001	OUTFALL 001	12/4/07	8:21am	GW		X	X													

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to pricing change on 12/4/07

Relinquished By: <i>Brian D. Wayner</i>	Date/Time: 12/4/07 9:30am	Received By: <i>D. Muelke</i>	Date/Time: 12/4/07 11:45
Relinquished By: <i>D. Muelke</i>	Date/Time: 12/4/07 12:30	Received By: <i>R. Schum</i>	Date/Time: 12/4/07 1230
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 891464
 Receipt Temp = *ROI* °C
 Sample Receipt pH *(OK) Adjusted*
 Cooler Custody Seal Present / *Not Present*
 Intact / Not Intact



1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 892246

Client: OMNI ASSOCIATES, INC.

Lab Contact: Steve Mleczo

Project Name: MAUTHE

Project Number: N1866A05/003

Lab Sample Number	Field ID	Matrix	Collection Date
892246-001	OUTFALL 001	WATER	01/02/08 06:50

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



[Handwritten Signature]

Approval Signature

1/10/2008

Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 892246

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : OMNNI ASSOCIATES, INC.
Project Name : MAUTHE
Project Number : N1866A05/003
Field ID : OUTFALL 001

Matrix Type : WATER
Collection Date : 01/02/08
Report Date : 01/09/08
Lab Sample Number : 892246-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium - Dissolved	1200	0.57	1.9		1	ug/L		01/09/08 09:33 AM	SW846 6010B	SW846 6010B
								Prep Date/Time: 01/04/08		Anl By: DLB
Chromium, Hexavalent	1300	42	140		1	ug/L		01/02/08 11:00 AM	SM 3500 Cr-B	SM 3500 Cr-B
								Prep Date/Time: 01/02/08 11:00 AM		Anl By: DDY

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

892246-001

Test Group Name

CHROMIUM - DISSOLVED	B
CHROMIUM, HEXAVALENT	B

Code	WI Certification
B	405132750 / DATCP: 105-444



Batch: 892246
Lab Section: METALS
QC Batch Number: 28020
Prep Method: SW846 6010B
Analytical Method: SW846 6010B

QC Type	Client Sample ID	Lab Sample ID
MB	MBWMTG2363-12	MBWMTG2363-12
MB	MBDMTG2363-12	MBDMTG2363-12
LCS	LCSWMTG2363-12	LCSWMTG2363-12
LCS	LCSDMTG2363-12	LCSDMTG2363-12
MS	892262-001MS	892262-001MS
MSD	892262-001MSD	892262-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	892246-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCSD Recovery			LCS/LCSD RPD % C	LCS/LCSD Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits		
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
											%	%	%													%	%
Chromium - Dissolved	<	0.57	500.0	546.4	109.3	---	---	---	---	80	120	20	892262-001	<	0.57	500.0	555.5	111.1	500.0	550.2	110.0	1.0	75	125	20		

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 1/9/2008

QC Batch Number: 28020



Batch: 892246
Lab Section: WETCHEM
QC Batch Number: 27935
Prep Method: SM 3500 Cr-B
Analytical Method: SM 3500 Cr-B

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2379-013MB	WCG2379-013MB
LCS	WCG2379-013MBLCS	WCG2379-013MBLCS
MS	OUTFALL 001MS	892246-001MS
MSD	OUTFALL 001MSD	892246-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	892246-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCSD Spiked Conc	LCSD Recovery			LCS/LCSD RPD % C	LCS/LCSD Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits		
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
			%	%	%		%	%	%		%	%	%				%	%	%		%	%	%		%	%	%
Chromium, Hexavalent	J	3.4	300.00	331.3	110.4		---	---	---	---	90	110	20	892246-001	1313.5	3750.0	5216.1	104.1		3750.0	5397.6	108.9		3.4	90	110	20

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifer Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 1/9/2008

QC Batch Number: 27935



Sample Condition Upon Receipt

Client Name: OMNI ASSOC Project # 892246

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

Cooler Temperature ROT

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 1-2-08, cf
4/1/08

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>CRTL</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>GW</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>cf</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 1/2/08

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)

(Please Print Clearly)

UPPER MIDWEST REGI
MN: 612-607-1700 WI: 920-469-2436

COC No.

031267

Company Name: OMNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): Brian D. Wayner
 PO #: _____
 Regulatory Program: _____



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Z	Y																
A		D																
HEXAVALENT CHROMIUM		TOTAL CHROMIUM																

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNI
 Invoice To Address: _____
 Invoice To Phone: 920/830-6141
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED	Z	Y												
		DATE	TIME																
001	OUTFALL 001	1/2/08	6:50	GW		X	X												

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

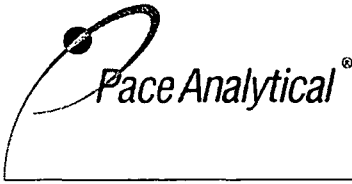
Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Brian D. Wayner* Date/Time: 1/2/08 8:10am
 Relinquished By: *D. Mielch* Date/Time: 1/2/08 10:05
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: *D. Mielch* Date/Time: 1/2/08 9:14
 Received By: *C. Pace* Date/Time: 1/2/08 10:05
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. 892246
 Receipt Temp = ROT °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 893057

Client: OMNI ASSOCIATES, INC.

Lab Contact: Steve Mleczo

Project Name: MAUTHE

Project Number: N1866A05-003

Lab Sample Number	Field ID	Matrix	Collection Date
893057-001	OUTFALL 001	WATER	02/04/08 06:55

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Approval Signature

2/15/2008

Date

Client : OMNNI ASSOCIATES, INC.

Project Name : MAUTHE

Project Number : N1866A05-003

Field ID : OUTFALL 001

Matrix Type : WATER

Collection Date : 02/04/08

Report Date : 02/15/08

Lab Sample Number : 893057-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium - Dissolved	1600	6.2	21		1	ug/L	N	02/15/08 11:09 AM	EPA 3020	EPA 6020
								Prep Date/Time: 02/13/08 11:20 AM		Anl By: PCM
Chromium, Hexavalent	1700	34	110		1	ug/L		02/04/08 02:30 PM	SM 3500 Cr-B	SM 3500 Cr-B
								Prep Date/Time: 02/04/08 02:30 PM		Anl By: DEY

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

893057-001

Test Group Name

CHROMIUM - DISSOLVED	M
CHROMIUM, HEXAVALENT	B

Code	WI Certification
B	405132750 / DATCP: 105-444
M	999407970

Batch: 893057
Lab Section: WETCHEM
QC Batch Number: 28620
Prep Method: SM 3500 Cr-B
Analytical Method: SM 3500 Cr-B

QC Type	Client Sample ID	Lab Sample ID
MB	WCG2379-023MB	WCG2379-023MB
LCS	WCG2379-023MBLCS	WCG2379-023MBLCS
MS	OUTFALL 001MS	893057-001MS
MSD	OUTFALL 001MSD	893057-001MSD

Client Sample ID	Lab Sample ID	MB ID	Client Sample ID	Lab Sample ID	MB ID
OUTFALL 001	893057-001	MB			

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery			LCS Spiked Conc	LCS Recovery			LCS/LCSD RPD % C	LCS/LCSD Control Limits			Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery			MSD Spiked Conc	MSD Recovery			MS/MSD RPD % C	MS/MSD Control Limits		
			Conc	%	C		Conc	%	C		LCL	UCL	RPD				Conc	%	C		Conc	%	C		LCL	UCL	RPD
											%	%	%								Conc	%	C		Conc	%	C
Chromium, Hexavalent	<	3.4	300.00	301.6	100.5					90	110	20	893057-001	1674.0	3000.0	4690.1	100.5		3000.0	4667.6	99.8		0.5	90	110	20	

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifier Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 2/15/2008

QC Batch Number: 28620

29



Sample Condition Upon Receipt

Client Name: OMNI ASSOC Project # 893057

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

Cooler Temperature ROT Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C



Date and Initials of person examining contents: 2-4-08 cf

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>CRTG</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>GW</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>cf</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 2/4/08

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)

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of 1

MN: 612-607-1700 WI: 920-469-2436

031269



COC No.

Company Name: OMNNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian D. Wayner*
 PO #:
 Regulatory Program:

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter																		
N	A	Y	D																
Analyses Requested		HEXAVALENT CHROMIUM		CHROMIUM															

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter														
		DATE	TIME																	
001	OUTFALL 001	2/4/08	6:55	GW	X	X														

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNNI
 Invoice To Address: SAME
 Invoice To Phone: 920/830-6141
 CLIENT COMMENTS: LAB COMMENTS (Lab Use Only)
 Profile #: 2-250mlp DTA

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <i>Brian D. Wayner</i> Date/Time: 2/4/08 8:12	Received By: <i>D. Mulla</i> Date/Time: 2/4/08 12:50	PACE Project No. 893057 Receipt Temp = <i>ROT</i> °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
Relinquished By: <i>D. Mulla</i> Date/Time: 2/4/08 13:40	Received By: <i>C. Pace</i> Date/Time: 2/4/08 13:40	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability

March 11, 2008

Brian Wayner
Omni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: OUTFALL 001
Pace Project No.: 401199

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2008. 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,



Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8

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CERTIFICATIONS

Project: OUTFALL 001
Pace Project No.: 401199

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

SAMPLE SUMMARY

Project: OUTFALL 001
Pace Project No.: 401199

Lab ID	Sample ID	Matrix	Date Collected	Date Received
401199001	OUTFALL 001	Water	03/03/08 07:11	03/03/08 11:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: OUTFALL 001
Pace Project No.: 401199

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
401199001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: OUTFALL 001
Pace Project No.: 401199

Method: EPA 7196
Description: 7196 Chromium, Hexavalent
Client: OMNI ASSOCIATES, INC.
Date: March 11, 2008

General Information:

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OUTFALL 001
Pace Project No.: 401199

Sample: OUTFALL 001		Lab ID: 401199001	Collected: 03/03/08 07:11	Received: 03/03/08 11:30	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent		Analytical Method: EPA 7196							
Chromium, Hexavalent	2.9 mg/L		0.14	0.042	12.5		03/03/08 14:10	18540-29-9	

QUALITY CONTROL DATA

Project: **OUTFALL 001**
Pace Project No.: **401199**

QC Batch: **WETA/1027** Analysis Method: **EPA 7196**
QC Batch Method: **EPA 7196** Analysis Description: **7196 Chromium, Hexavalent**
Associated Lab Samples: **401199001**

METHOD BLANK: **1777**
Associated Lab Samples: **401199001**

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.011	

LABORATORY CONTROL SAMPLE: **1778**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.30	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: **1779** **1780**

Parameter	Units	401199001		MSD		MS		MSD		% Rec Limits	Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec	RPD		RPD		
Chromium, Hexavalent	mg/L	2.9	3.8	3.8	6.6	6.6	100	100	90-110	.2	20		

QUALIFIERS

Project: OUTFALL 001
Pace Project No.: 401199

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay



Sample Condition Upon Receipt

Client Name: Omni Associates Project # 401199

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

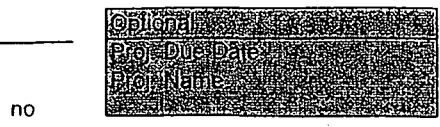
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 201 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C



Date and Initials of person examining contents: 3/3/08 AB

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>nochrome</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>AB</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature] Date: 3/4/08

(Please Print Clearly)

U... MIDV... REG... MN: 612-607-1700 WI: 920-469-2436

ge of

031270

COC No.

Company Name: OMNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian J. Wayner*
 PO #:

Pace Analytical
 www.pacelabs.com

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	ANALYSES REQUESTED	PICK LETTER
N	HEXAVALENT CHROMIUM	A
Y	CHROMIUM	D

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	ANALYSES REQUESTED	PICK LETTER
		DATE	TIME				
001	OUTFALL 001	3/3/08	7:11	GW	X	HEXAVALENT CHROMIUM	A

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNI ASSOCIATES
 Mail To Address: ONE N. SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNI
 Invoice To Address: SAME
 Invoice To Phone:

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
2-250 MHD		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By:	Date/Time:	Received By:	Date/Time:
<i>Brian J. Wayner</i>	3/3/08 8:35	<i>B. Kemper</i>	3/3/08 09:50
<i>B. Kemper</i>	3/3/08 11:30	<i>Dunlop Buisky</i>	3/3/08 11:30

PACE Project No. 401199
 Receipt Temp = 20.1 °C
 Sample Receipt pH (OK) Adjusted
 Cooler Custody Seal Present (Not Present) Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

March 11, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 401199 OMNNI ASSOCIATES
Pace Project No.: 1069220

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2008. 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,

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Coordinator

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 7

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SAMPLE SUMMARY

Project: 401199 OMNI ASSOCIATES
Pace Project No.: 1069220

Lab ID	Sample ID	Matrix	Date Collected	Date Received
401199001	OUTFALL 001	Water	03/03/08 07:11	03/03/08 11:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 401199 OMNNI ASSOCIATES
Pace Project No.: 1069220

Lab ID	Sample ID	Method	Analysts	Analytes Reported
401199001	OUTFALL 001	EPA 6020	RJS	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 401199 OMNNI ASSOCIATES
Pace Project No.: 1069220

Sample: OUTFALL 001 Lab ID: 401199001 Collected: 03/03/08 07:11 Received: 03/03/08 11:30 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS, Dissolved			Analytical Method: EPA 6020 Preparation Method: EPA 3020						
Chromium	2500 ug/L		25.0	12.5	50	03/10/08 11:50	03/10/08 13:23	7440-47-3	M0

QUALITY CONTROL DATA

Project: 401199 OMNNI ASSOCIATES
Pace Project No.: 1069220

QC Batch: MPRP/11577 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 401199001

METHOD BLANK: 451186
Associated Lab Samples: 401199001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium	ug/L	ND	0.50	

LABORATORY CONTROL SAMPLE: 451187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	80	78.7	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 451188 451189

Parameter	Units	451188		451189		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		401199001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chromium	ug/L	2500	80	80	2510	2590	8	108	70-130	3	20 M0

QUALIFIERS

Project: 401199 OMNNI ASSOCIATES
Pace Project No.: 1069220

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.

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 401199 OMNI ASSOCIATES
Pace Project No.: 1069220

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401199001	OUTFALL 001	EPA 3020	MPRP/11577	EPA 6020	ICPM/4593

April 11, 2008

Brian Wayner
Omni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

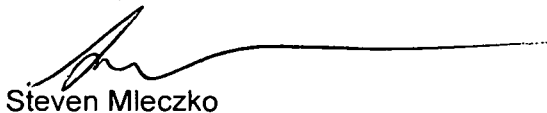
RE: Project: N1866A05/003 MAUTHE
Pace Project No.: 402140

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2008. 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,



Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402140

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: N1866A05/003 MAUTHE
Pace Project No.: 402140

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402140001	OUTFALL 001	Water	04/01/08 07:03	04/01/08 14:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE
Pace Project No.: 402140

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402140001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: N1866A05/003 MAUTHE

Pace Project No.: 402140

Method: EPA 7196

Description: 7196 Chromium, Hexavalent

Client: OMNI ASSOCIATES, INC.

Date: April 11, 2008

General Information:

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402140

Sample: **OUTFALL 001** Lab ID: **402140001** Collected: 04/01/08 07:03 Received: 04/01/08 14:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytical Method: EPA 7196								
Chromium, Hexavalent	1.6	mg/L	0.14	0.042	12.5		04/01/08 15:15	18540-29-9	

QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402140

QC Batch: WETA/1222 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 402140001

METHOD BLANK: 11751
Associated Lab Samples: 402140001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.011	

LABORATORY CONTROL SAMPLE: 11752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.31	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 11753 11754

Parameter	Units	402140001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	1.6	3.8	3.8	5.6	5.5	106	102	90-110	2	20	

QUALIFIERS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402140

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 10, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 402140 OMNNI ASSOCIATES
Pace Project No.: 1070809

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2008. 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,

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 6

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SAMPLE SUMMARY

Project: 402140 OMNI ASSOCIATES
Pace Project No.: 1070809

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402140001	OUTFALL 001	Water	04/01/08 07:03	04/01/08 14:10

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 402140 OMNNI ASSOCIATES
Pace Project No.: 1070809

Lab ID	Sample ID	Method	Analysts	Analytes Reported
402140001	OUTFALL 001	EPA 6020	RJS	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 402140 OMNI ASSOCIATES
Pace Project No.: 1070809

Sample: **OUTFALL 001** Lab ID: **402140001** Collected: 04/01/08 07:03 Received: 04/01/08 14:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS, Dissolved Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Chromium	1530 ug/L		12.5	6.2	25	04/07/08 13:30	04/08/08 14:55	7440-47-3	M0

QUALITY CONTROL DATA

Project: 402140 OMNNI ASSOCIATES
Pace Project No.: 1070809

QC Batch: MPRP/11791 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 402140001

METHOD BLANK: 461446

Associated Lab Samples: 402140001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium	ug/L	ND	0.50	

LABORATORY CONTROL SAMPLE: 461447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	80	86.3	108	85-115	

MATRIX SPIKE SAMPLE: 461448

Parameter	Units	08034554 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	2.8	80	79.4	96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 461482 461483

Parameter	Units	402140001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	1530	80	80	1390	1400	-170	-164	70-130	.4	20 M0	

QUALIFIERS

Project: 402140 OMNNI ASSOCIATES
Pace Project No.: 1070809

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.

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.



Sample Condition Upon Receipt

Client Name: Omni-Appleton Project # 402140

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

Cooler Temperature NA Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: u 9/1/08

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>u</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature] Date: 9/1/08

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)

(Please Print Clearly)

031271

Company Name: OMNINI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian Wayner*
 PO #:



CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	Y																	
Pick Letter	A	D																	
Analyses Requested	HEXAVALENT CHROMIUM	CHROMIUM																	

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED	HEXAVALENT CHROMIUM	CHROMIUM													
		DATE	TIME																	
001	OUTFALL 001	4/1/08	7:03	GW		X	X													

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNINI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNINI
 Invoice To Address: SAME
 Invoice To Phone:

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	A-250ml #10	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Brian Wayner* Date/Time: 4/1/08 7:50
 Relinquished By: *B. Kemper* Date/Time: 4/1/08 14:10
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: *B. Kemper* Date/Time: 4/1/08 09:15
 Received By: *A. Maden* Date/Time: 4/1/08 14:10
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. 402140
 Receipt Temp = 10.5 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

April 18, 2008

Brian Wayner
Omni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

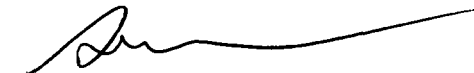
RE: Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2008. 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,



Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 9

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CERTIFICATIONS

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402394001	OUTFALL 001	Water	04/08/08 07:10	04/08/08 11:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402394001	OUTFALL 001	EPA 335.4	DAW	1	PASI-G
		EPA 7196	DEY	1	PASI-G
		EPA 7470	LMS	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

Sample: **OUTFALL 001** Lab ID: **402394001** Collected: 04/08/08 07:10 Received: 04/08/08 11:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	<0.10	ug/L	0.33	0.10	1	04/09/08 15:58	04/10/08 11:07	7439-97-6	
335.4 Cyanide, Tot. Dissolved	Analytical Method: EPA 335.4								
Cyanide	0.014J	mg/L	0.020	0.0060	1		04/16/08 14:13	57-12-5	B
7196 Chromium, Hexavalent	Analytical Method: EPA 7196								
Chromium, Hexavalent	0.063	mg/L	0.011	0.0034	1		04/08/08 15:45	18540-29-9	

QUALITY CONTROL DATA

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

QC Batch: WETA/1275 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 402394001

METHOD BLANK: 14489
Associated Lab Samples: 402394001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.011	

LABORATORY CONTROL SAMPLE: 14490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.32	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14491 14492

Parameter	Units	402394001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	0.063	.3	.3	0.39	0.38	110	106	90-110	3	20	

QUALITY CONTROL DATA

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

QC Batch: MERP/1050 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 402394001

METHOD BLANK: 14733
Associated Lab Samples: 402394001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	<0.10	0.33	

LABORATORY CONTROL SAMPLE: 14734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.7	113	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 14735 14736

Parameter	Units	402406018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	5.6	5.5	112	110	85-115	2	20	

QUALITY CONTROL DATA

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

QC Batch: WETA/1322 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 402394001

METHOD BLANK: 16769
Associated Lab Samples: 402394001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	0.0083J	0.020	

LABORATORY CONTROL SAMPLE: 16770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16771 16772

Parameter	Units	402410001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	1.6	.1	.1	1.7	1.8	135	200	90-110	4	20 M0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16773 16774

Parameter	Units	402632001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.014J	.1	.1	0.0060J	0.0066J	-8	-7	90-110		20 M0	

QUALIFIERS

Project: N1866 A05-003 MAUTHE
Pace Project No.: 402394

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M0 Matrix spike recovery was outside laboratory control limits.



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

April 18, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 402394 OMNNI ASSOCIATES
Pace Project No.: 1071222

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2008. 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,

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 7

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SAMPLE SUMMARY

Project: 402394 OMNI ASSOCIATES
Pace Project No.: 1071222

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402394001	OUTFALL 001	Water	04/08/08 07:10	04/08/08 11:25

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 402394 OMNNI ASSOCIATES
Pace Project No.: 1071222

Lab ID	Sample ID	Method	Analysts	Analytes Reported
402394001	OUTFALL 001	EPA 6020	RJS	8

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 402394 OMNNI ASSOCIATES
Pace Project No.: 1071222

Sample: **OUTFALL 001** Lab ID: **402394001** Collected: 04/08/08 07:10 Received: 04/08/08 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Aluminum	11.4	ug/L	4.0	2.0	1	04/17/08 12:40	04/17/08 15:29	7429-90-5	
Arsenic	0.43	ug/L	0.20	0.10	1	04/17/08 12:40	04/17/08 15:29	7440-38-2	
Cadmium	0.11	ug/L	0.10	0.050	1	04/17/08 12:40	04/17/08 15:29	7440-43-9	
Chromium	864	ug/L	2.5	1.2	5	04/17/08 12:40	04/17/08 15:33	7440-47-3	
Copper	4.3	ug/L	0.20	0.10	1	04/17/08 12:40	04/17/08 15:29	7440-50-8	
Lead	0.095J	ug/L	0.10	0.050	1	04/17/08 12:40	04/17/08 15:29	7439-92-1	
Nickel	2.4	ug/L	0.10	0.050	1	04/17/08 12:40	04/17/08 15:29	7440-02-0	
Zinc	7.1	ug/L	5.0	2.5	1	04/17/08 12:40	04/17/08 15:29	7440-66-6	

QUALITY CONTROL DATA

Project: 402394 OMNNI ASSOCIATES
Pace Project No.: 1071222

QC Batch: MPRP/11882 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 402394001

METHOD BLANK: 465778
Associated Lab Samples: 402394001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	ND	4.0	
Arsenic	ug/L	ND	0.20	
Cadmium	ug/L	ND	0.10	
Chromium	ug/L	ND	0.50	
Copper	ug/L	ND	0.20	
Lead	ug/L	ND	0.10	
Nickel	ug/L	ND	0.10	
Zinc	ug/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 465779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	76.5	96	85-115	
Arsenic	ug/L	80	82.8	103	85-115	
Cadmium	ug/L	80	85.4	107	85-115	
Chromium	ug/L	80	80.6	101	85-115	
Copper	ug/L	80	80.3	100	85-115	
Lead	ug/L	80	79.4	99	85-115	
Nickel	ug/L	80	80.9	101	85-115	
Zinc	ug/L	80	81.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 465780 465781

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		1070229001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
Aluminum	ug/L	20.3	80	80	88.6	94.5	85	93	70-130	6	20
Arsenic	ug/L	2.3	80	80	79.5	85.9	96	105	70-130	8	20
Cadmium	ug/L	ND	80	80	77.4	83.2	97	104	70-130	7	20
Chromium	ug/L	1.7J	80	80	77.4	83.5	95	102	70-130	8	20
Copper	ug/L	2.9	80	80	75.4	81.3	91	98	70-130	7	20
Lead	ug/L	ND	80	80	72.6	79.3	91	99	70-130	9	20
Nickel	ug/L	1.5	80	80	73.3	80.9	90	99	70-130	10	20
Zinc	ug/L	ND	80	80	79.5	84.4	93	99	70-130	6	20



QUALIFIERS

Project: 402394 OMNNI ASSOCIATES
Pace Project No.: 1071222

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 402394 OMNNI ASSOCIATES
Pace Project No.: 1071222

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
402394001	OUTFALL 001	EPA 3020	MPRP/11882	EPA 6020	ICPM/4690



Sample Condition Upon Receipt

Client Name: OMNI

Project # 402394

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

Cooler Temperature ROI

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 4/8/08 AB

Temp should be above freezing to 6°C Comments: AB

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>24 hrs.</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: [Signature] Date: 4/8/08

(Please Print Clearly)

UPPER MIDWEST REGION

Company Name: OMNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian D Wayner*
 PO #: _____ Regulatory Program: _____



MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Analysis Requested	HEXAVALENT CHROMIUM	TOTAL CYANIDE	TESTALS	ALUMINUM	ARSENIC	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	ZINC
APIC Labels	N	N	N	N	N	N	N	N	N	N	N	N
Preservation Code	A	G	D	D	D	D	D	D	D	D	D	D

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNI
 Invoice To Address: SAME
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	HEXAVALENT CHROMIUM	TOTAL CYANIDE	TESTALS	ALUMINUM	ARSENIC	CADMIUM	CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	ZINC
		DATE	TIME														
001	OUTFALL 001	4/8/08	7:10	GW	X	X	X	X	X	X	X	X	X	X	X	X	X

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <i>Brian D. Wayner</i> Date/Time: 4/8/08 8:20am	Received By: <i>D. Muelke</i> Date/Time: 4/8/08 8:47	PACE Project No. 402394 Receipt Temp = 201 °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
Relinquished By: <i>D. Muelke</i> Date/Time: 4/8/08 11:25	Received By: <i>[Signature]</i> Date/Time: 4/8/08 11:25	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability

April 15, 2008

Brian Wayner
Omni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 15, 2008. 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,



Steven Mleczo

steve.mleczo@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8

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CERTIFICATIONS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402654001	OUTFALL 001	Water	04/15/08 06:21	04/15/08 11:55

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-243

SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402654001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

Method: EPA 7196
Description: 7196 Chromium, Hexavalent
Client: OMNI ASSOCIATES, INC.
Date: April 15, 2008

General Information:

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1315

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 402654001

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 16573)
- Chromium, Hexavalent

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 5 of 8

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

Sample: OUTFALL 001 Lab ID: 402654001 Collected: 04/15/08 06:21 Received: 04/15/08 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytical Method: EPA 7196								
Chromium, Hexavalent	0.36	mg/L	0.14	0.042	12.5		04/15/08 13:30	18540-29-9	MO

QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

QC Batch: WETA/1315 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 402654001

METHOD BLANK: 16570

Associated Lab Samples: 402654001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.011	

LABORATORY CONTROL SAMPLE: 16571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.32	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 16572 16573

Parameter	Units	402654001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	0.36	3.8	3.8	4.5	4.6	110	112	90-110	2	20	M0

QUALIFIERS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402654

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.



Sample Condition Upon Receipt

Client Name: OMNI ASSOC Project # 402654

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

Cooler Temperature ROT

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 4-15-08 CF

Temp should be above freezing to 6°C

Comments: ABV

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Hex Chrome</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>GW</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 4/15/08

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)

(Please Print Clearly)

031272

Company Name: **OMNNI ASSOCIATES**

Branch/Location: **APPLETON**

Project Contact: **BRIAN WAYNER**

Phone: **920/830-6141**

Project Number: **N1846A05/003**

Project Name: **MAUTHIE**

Project State: **WI**

Sampled By (Print): **BRIAN WAYNER**

Sampled By (Sign): *Brian Wayner*

PO #:

Regulatory Program:



CHAIN OF CUSTODY

COC No.

Preservation Codes

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)

PRESERVATION
(CODE)*

YIN	Pick Letter	Analyses Requested	1	2	3	4	5	6	7	8	9	10
	A	Hexavalent Chromium										
		Chromium										

Quote #: **MAUTHIE**

Mall To Contact: **BRIAN WAYNER**

Mall To Company: **OMNNI ASSOCIATES**

Mall To Address: **ONE SYSTEMS DRIVE
APPLETON, WI 54914**

Invoice To Contact: **BRIAN WAYNER**

Invoice To Company: **OMNNI**

Invoice To Address: **SAME**

Invoice To Phone:

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD

On your sample (billable)

NOT needed on your sample

Matrix Codes

A = Air W = Water
B = Biota DW = Drinking Water
C = Charcoal GW = Ground Water
O = Oil SW = Surface Water
S = Soil WW = Waste Water
Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested
		DATE	TIME		
001	OUTFALL 001	4/15/08	6:21	GW	X

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	1-250ML pA	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>Brian Wayner</i> Date/Time: <i>4/15/08 7:05</i>	Received By: <i>B Kemper</i> Date/Time: <i>4/15/08 0930</i>	PACE Project No. 402654
	Relinquished By: <i>B Kemper</i> Date/Time: <i>4/15/08 1155</i>	Received By: <i>CP Pace</i> Date/Time: <i>4-15-08 1155</i>	
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH OK / Adjusted
Email #1:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal
Email #2:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Present <input checked="" type="checkbox"/> / Not Present <input type="checkbox"/>
Telephone:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Intact / Not Intact
Fax:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Samples on HOLD are subject to special pricing and release of liability	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

April 30, 2008

Brian Wayner
Omni Associates, Inc.
One Systems Drive
Appleton, WI 549141654


RE: Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 2008. 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,


Steven Mieczko

steve.mieczko@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 25

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CERTIFICATIONS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: N1866A05/003 MAUTHE

Pace Project No.: 402787

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402787001	MW-101	Water	04/16/08 19:00	04/17/08 14:05
402787002	MW-102	Water	04/16/08 13:53	04/17/08 14:05
402787003	MW-103	Water	04/16/08 12:41	04/17/08 14:05
402787004	MW-104	Water	04/16/08 12:03	04/17/08 14:05
402787005	MW-107	Water	04/16/08 15:00	04/17/08 14:05
402787006	MW-109	Water	04/16/08 15:49	04/17/08 14:05
402787007	MW-110	Water	04/16/08 18:22	04/17/08 14:05
402787008	MW-111	Water	04/16/08 16:29	04/17/08 14:05
402787009	MW-112	Water	04/16/08 17:04	04/17/08 14:05
402787010	MW-113	Water	04/16/08 17:50	04/17/08 14:05
402787011	TRIP BLANK	Water	04/16/08 00:00	04/17/08 14:05
402787012	DUPLICATE	Water	04/16/08 00:00	04/17/08 14:05

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SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402787001	MW-101	EPA 6010	DLB	1	PASI-G
402787002	MW-102	EPA 6010	DLB	1	PASI-G
402787003	MW-103	EPA 6010	DLB	1	PASI-G
402787004	MW-104	EPA 6010	DLB	1	PASI-G
402787005	MW-107	EPA 6010	DLB	1	PASI-G
402787006	MW-109	EPA 8260	SMT	64	PASI-G
		EPA 6010	DLB	1	PASI-G
402787007	MW-110	EPA 8260	SMT	64	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
402787008	MW-111	EPA 8260	SMT	64	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
402787009	MW-112	EPA 8260	SMT	64	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
402787010	MW-113	EPA 8260	SMT	64	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
402787011	TRIP BLANK	EPA 8260	SMT	64	PASI-G
402787012	DUPLICATE	EPA 335.4	DAW	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: MW-101 Lab ID: 402787001 Collected: 04/16/08 19:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	2.4J	ug/L	5.0	0.57	1		04/18/08 12:20	7440-47-3	

Sample: MW-102 Lab ID: 402787002 Collected: 04/16/08 13:53 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	<0.57	ug/L	5.0	0.57	1		04/18/08 12:24	7440-47-3	

Sample: MW-103 Lab ID: 402787003 Collected: 04/16/08 12:41 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	380	ug/L	5.0	0.57	1		04/18/08 12:28	7440-47-3	

Sample: MW-104 Lab ID: 402787004 Collected: 04/16/08 12:03 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	545	ug/L	5.0	0.57	1		04/18/08 12:32	7440-47-3	

Sample: MW-107 Lab ID: 402787005 Collected: 04/16/08 15:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	4410	ug/L	5.0	0.57	1		04/18/08 12:36	7440-47-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<2.0	ug/L	5.0	2.0	5		04/21/08 11:20	71-43-2	
Bromobenzene	<4.1	ug/L	5.0	4.1	5		04/21/08 11:20	108-86-1	
Bromochloromethane	<4.8	ug/L	5.0	4.8	5		04/21/08 11:20	74-97-5	
Bromodichloromethane	<2.8	ug/L	9.3	2.8	5		04/21/08 11:20	75-27-4	
Bromoform	<4.7	ug/L	15.7	4.7	5		04/21/08 11:20	75-25-2	
Bromomethane	<4.6	ug/L	15.2	4.6	5		04/21/08 11:20	74-83-9	
n-Butylbenzene	<4.6	ug/L	5.0	4.6	5		04/21/08 11:20	104-51-8	
sec-Butylbenzene	<4.4	ug/L	5.0	4.4	5		04/21/08 11:20	135-98-8	

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402787

Sample: MW-107 Lab ID: 402787005 Collected: 04/16/08 15:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
tert-Butylbenzene	<4.8	ug/L	5.0	4.8	5		04/21/08 11:20	98-06-6	
Carbon tetrachloride	<2.4	ug/L	5.0	2.4	5		04/21/08 11:20	56-23-5	
Chlorobenzene	<2.0	ug/L	5.0	2.0	5		04/21/08 11:20	108-90-7	
Chloroethane	<4.8	ug/L	5.0	4.8	5		04/21/08 11:20	75-00-3	
Chloroform	<1.8	ug/L	6.2	1.8	5		04/21/08 11:20	67-66-3	
Chloromethane	<1.2	ug/L	4.0	1.2	5		04/21/08 11:20	74-87-3	
2-Chlorotoluene	<4.2	ug/L	5.0	4.2	5		04/21/08 11:20	95-49-8	
4-Chlorotoluene	<3.7	ug/L	5.0	3.7	5		04/21/08 11:20	106-43-4	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.5	4.4	5		04/21/08 11:20	96-12-8	
Dibromochloromethane	<4.0	ug/L	5.0	4.0	5		04/21/08 11:20	124-48-1	
1,2-Dibromoethane (EDB)	<2.8	ug/L	9.3	2.8	5		04/21/08 11:20	106-93-4	
Dibromomethane	<3.0	ug/L	5.0	3.0	5		04/21/08 11:20	74-95-3	
1,2-Dichlorobenzene	<4.2	ug/L	5.0	4.2	5		04/21/08 11:20	95-50-1	
1,3-Dichlorobenzene	<4.4	ug/L	5.0	4.4	5		04/21/08 11:20	541-73-1	
1,4-Dichlorobenzene	<4.8	ug/L	5.0	4.8	5		04/21/08 11:20	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	5.0	5.0	5		04/21/08 11:20	75-71-8	
1,1-Dichloroethane	20.8	ug/L	5.0	3.8	5		04/21/08 11:20	75-34-3	
1,2-Dichloroethane	<1.8	ug/L	5.0	1.8	5		04/21/08 11:20	107-06-2	
1,1-Dichloroethene	21.8	ug/L	5.0	2.8	5		04/21/08 11:20	75-35-4	
cis-1,2-Dichloroethene	<4.2	ug/L	5.0	4.2	5		04/21/08 11:20	156-59-2	
trans-1,2-Dichloroethene	<4.4	ug/L	5.0	4.4	5		04/21/08 11:20	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	5.0	2.3	5		04/21/08 11:20	78-87-5	
1,3-Dichloropropane	<3.0	ug/L	10.2	3.0	5		04/21/08 11:20	142-28-9	
2,2-Dichloropropane	<3.1	ug/L	5.0	3.1	5		04/21/08 11:20	594-20-7	
1,1-Dichloropropene	<3.8	ug/L	5.0	3.8	5		04/21/08 11:20	563-58-6	
cis-1,3-Dichloropropene	<0.95	ug/L	3.2	0.95	5		04/21/08 11:20	10061-01-5	
trans-1,3-Dichloropropene	<0.95	ug/L	3.2	0.95	5		04/21/08 11:20	10061-02-6	
Diisopropyl ether	<3.8	ug/L	5.0	3.8	5		04/21/08 11:20	108-20-3	
Ethylbenzene	<2.7	ug/L	5.0	2.7	5		04/21/08 11:20	100-41-4	
Hexachloro-1,3-butadiene	<3.4	ug/L	5.0	3.4	5		04/21/08 11:20	87-68-3	
Isopropylbenzene (Cumene)	<3.0	ug/L	5.0	3.0	5		04/21/08 11:20	98-82-8	
p-Isopropyltoluene	<3.4	ug/L	5.0	3.4	5		04/21/08 11:20	99-87-6	
Methylene Chloride	<2.2	ug/L	7.2	2.2	5		04/21/08 11:20	75-09-2	
Methyl-tert-butyl ether	<3.0	ug/L	10.2	3.0	5		04/21/08 11:20	1634-04-4	
Naphthalene	<3.7	ug/L	25.0	3.7	5		04/21/08 11:20	91-20-3	
n-Propylbenzene	<4.0	ug/L	5.0	4.0	5		04/21/08 11:20	103-65-1	
Styrene	<4.3	ug/L	5.0	4.3	5		04/21/08 11:20	100-42-5	
1,1,1,2-Tetrachloroethane	<4.6	ug/L	5.0	4.6	5		04/21/08 11:20	630-20-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	3.3	1.0	5		04/21/08 11:20	79-34-5	
Tetrachloroethene	<2.2	ug/L	5.0	2.2	5		04/21/08 11:20	127-18-4	
Toluene	<3.4	ug/L	5.0	3.4	5		04/21/08 11:20	108-88-3	
1,2,3-Trichlorobenzene	<3.7	ug/L	5.0	3.7	5		04/21/08 11:20	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	5.0	4.8	5		04/21/08 11:20	120-82-1	
1,1,1-Trichloroethane	257	ug/L	5.0	4.5	5		04/21/08 11:20	71-55-6	
1,1,2-Trichloroethane	2.7J	ug/L	7.0	2.1	5		04/21/08 11:20	79-00-5	
Trichloroethene	550	ug/L	5.0	2.4	5		04/21/08 11:20	79-01-6	

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: MW-107 Lab ID: 402787005 Collected: 04/16/08 15:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichlorofluoromethane	<4.0	ug/L	5.0	4.0	5		04/21/08 11:20	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	5.0	5		04/21/08 11:20	96-18-4	
1,2,4-Trimethylbenzene	<4.8	ug/L	5.0	4.8	5		04/21/08 11:20	95-63-6	
1,3,5-Trimethylbenzene	<4.2	ug/L	5.0	4.2	5		04/21/08 11:20	108-67-8	
Vinyl chloride	<0.90	ug/L	3.0	0.90	5		04/21/08 11:20	75-01-4	
m&p-Xylene	<9.0	ug/L	10.0	9.0	5		04/21/08 11:20	1330-20-7	
o-Xylene	<4.2	ug/L	5.0	4.2	5		04/21/08 11:20	95-47-6	
4-Bromofluorobenzene (S)	82	%	64-132		5		04/21/08 11:20	460-00-4	
Dibromofluoromethane (S)	87	%	68-122		5		04/21/08 11:20	1868-53-7	
Toluene-d8 (S)	90	%	73-127		5		04/21/08 11:20	2037-26-5	

Sample: MW-109 Lab ID: 402787006 Collected: 04/16/08 15:49 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	1550	ug/L	5.0	0.57	1		04/18/08 12:40	7440-47-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		04/21/08 08:59	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		04/21/08 08:59	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		04/21/08 08:59	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		04/21/08 08:59	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		04/21/08 08:59	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		04/21/08 08:59	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		04/21/08 08:59	104-51-8	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		04/21/08 08:59	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 08:59	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		04/21/08 08:59	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		04/21/08 08:59	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		04/21/08 08:59	75-00-3	
Chloroform	0.39J	ug/L	1.2	0.37	1		04/21/08 08:59	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		04/21/08 08:59	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		04/21/08 08:59	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		04/21/08 08:59	106-43-4	
1,2-Dibromo-3-chloropropane	<0.87	ug/L	2.9	0.87	1		04/21/08 08:59	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		04/21/08 08:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		04/21/08 08:59	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		04/21/08 08:59	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		04/21/08 08:59	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		04/21/08 08:59	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		04/21/08 08:59	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		04/21/08 08:59	75-71-8	
1,1-Dichloroethane	1.9	ug/L	1.0	0.75	1		04/21/08 08:59	75-34-3	

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402787

Sample: MW-109 Lab ID: 402787006 Collected: 04/16/08 15:49 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		04/21/08 08:59	107-06-2	
1,1-Dichloroethene	1.9	ug/L	1.0	0.57	1		04/21/08 08:59	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		04/21/08 08:59	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		04/21/08 08:59	156-60-5	
1,2-Dichloropropane	<0.46	ug/L	1.0	0.46	1		04/21/08 08:59	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		04/21/08 08:59	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		04/21/08 08:59	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		04/21/08 08:59	563-58-6	
cis-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/21/08 08:59	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/21/08 08:59	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		04/21/08 08:59	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		04/21/08 08:59	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		04/21/08 08:59	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		04/21/08 08:59	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		04/21/08 08:59	99-87-6	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		04/21/08 08:59	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		04/21/08 08:59	1634-04-4	
Naphthalene	<0.74	ug/L	5.0	0.74	1		04/21/08 08:59	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		04/21/08 08:59	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		04/21/08 08:59	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		04/21/08 08:59	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		04/21/08 08:59	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		04/21/08 08:59	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		04/21/08 08:59	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		04/21/08 08:59	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 08:59	120-82-1	
1,1,1-Trichloroethane	31.9	ug/L	1.0	0.90	1		04/21/08 08:59	71-55-6	
1,1,2-Trichloroethane	0.45J	ug/L	1.4	0.42	1		04/21/08 08:59	79-00-5	
Trichloroethene	39.4	ug/L	1.0	0.48	1		04/21/08 08:59	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		04/21/08 08:59	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		04/21/08 08:59	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 08:59	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		04/21/08 08:59	108-67-8	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		04/21/08 08:59	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		04/21/08 08:59	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		04/21/08 08:59	95-47-6	
4-Bromofluorobenzene (S)	83	%	64-132		1		04/21/08 08:59	460-00-4	
Dibromofluoromethane (S)	89	%	68-122		1		04/21/08 08:59	1868-53-7	
Toluene-d8 (S)	89	%	73-127		1		04/21/08 08:59	2037-26-5	

ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402787

Sample: MW-110 Lab ID: 402787007 Collected: 04/16/08 18:22 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Chromium	32500	ug/L	50.0	5.7	10		04/18/08 12:45	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<8.2	ug/L	20.0	8.2	20		04/21/08 09:46	71-43-2	
Bromobenzene	<16.4	ug/L	20.0	16.4	20		04/21/08 09:46	108-86-1	
Bromochloromethane	<19.4	ug/L	20.0	19.4	20		04/21/08 09:46	74-97-5	
Bromodichloromethane	<11.2	ug/L	37.3	11.2	20		04/21/08 09:46	75-27-4	
Bromoform	<18.8	ug/L	62.7	18.8	20		04/21/08 09:46	75-25-2	
Bromomethane	<18.2	ug/L	60.7	18.2	20		04/21/08 09:46	74-83-9	
n-Butylbenzene	<18.6	ug/L	20.0	18.6	20		04/21/08 09:46	104-51-8	
sec-Butylbenzene	<17.8	ug/L	20.0	17.8	20		04/21/08 09:46	135-98-8	
tert-Butylbenzene	<19.4	ug/L	20.0	19.4	20		04/21/08 09:46	98-06-6	
Carbon tetrachloride	<9.8	ug/L	20.0	9.8	20		04/21/08 09:46	56-23-5	
Chlorobenzene	<8.2	ug/L	20.0	8.2	20		04/21/08 09:46	108-90-7	
Chloroethane	<19.4	ug/L	20.0	19.4	20		04/21/08 09:46	75-00-3	
Chloroform	<7.4	ug/L	24.7	7.4	20		04/21/08 09:46	67-66-3	
Chloromethane	<4.8	ug/L	16.0	4.8	20		04/21/08 09:46	74-87-3	
2-Chlorotoluene	<17.0	ug/L	20.0	17.0	20		04/21/08 09:46	95-49-8	
4-Chlorotoluene	<14.8	ug/L	20.0	14.8	20		04/21/08 09:46	106-43-4	
1,2-Dibromo-3-chloropropane	<17.4	ug/L	58.0	17.4	20		04/21/08 09:46	96-12-8	
Dibromochloromethane	<16.2	ug/L	20.0	16.2	20		04/21/08 09:46	124-48-1	
1,2-Dibromoethane (EDB)	<11.2	ug/L	37.3	11.2	20		04/21/08 09:46	106-93-4	
Dibromomethane	<12.0	ug/L	20.0	12.0	20		04/21/08 09:46	74-95-3	
1,2-Dichlorobenzene	<16.6	ug/L	20.0	16.6	20		04/21/08 09:46	95-50-1	
1,3-Dichlorobenzene	<17.4	ug/L	20.0	17.4	20		04/21/08 09:46	541-73-1	
1,4-Dichlorobenzene	<19.0	ug/L	20.0	19.0	20		04/21/08 09:46	106-46-7	
Dichlorodifluoromethane	<19.8	ug/L	20.0	19.8	20		04/21/08 09:46	75-71-8	
1,1-Dichloroethane	206	ug/L	20.0	15.0	20		04/21/08 09:46	75-34-3	
1,2-Dichloroethane	<7.2	ug/L	20.0	7.2	20		04/21/08 09:46	107-06-2	
1,1-Dichloroethene	195	ug/L	20.0	11.4	20		04/21/08 09:46	75-35-4	
cis-1,2-Dichloroethene	55.9	ug/L	20.0	16.6	20		04/21/08 09:46	156-59-2	
trans-1,2-Dichloroethene	<17.8	ug/L	20.0	17.8	20		04/21/08 09:46	156-60-5	
1,2-Dichloropropane	<9.2	ug/L	20.0	9.2	20		04/21/08 09:46	78-87-5	
1,3-Dichloropropane	<12.2	ug/L	40.7	12.2	20		04/21/08 09:46	142-28-9	
2,2-Dichloropropane	<12.4	ug/L	20.0	12.4	20		04/21/08 09:46	594-20-7	
1,1-Dichloropropene	<15.0	ug/L	20.0	15.0	20		04/21/08 09:46	563-58-6	
cis-1,3-Dichloropropene	<3.8	ug/L	12.7	3.8	20		04/21/08 09:46	10061-01-5	
trans-1,3-Dichloropropene	<3.8	ug/L	12.7	3.8	20		04/21/08 09:46	10061-02-6	
Diisopropyl ether	<15.2	ug/L	20.0	15.2	20		04/21/08 09:46	108-20-3	
Ethylbenzene	<10.8	ug/L	20.0	10.8	20		04/21/08 09:46	100-41-4	
Hexachloro-1,3-butadiene	<13.4	ug/L	20.0	13.4	20		04/21/08 09:46	87-68-3	
Isopropylbenzene (Cumene)	<11.8	ug/L	20.0	11.8	20		04/21/08 09:46	98-82-8	
p-Isopropyltoluene	<13.4	ug/L	20.0	13.4	20		04/21/08 09:46	99-87-6	
Methylene Chloride	<8.6	ug/L	28.7	8.6	20		04/21/08 09:46	75-09-2	
Methyl-tert-butyl ether	<12.2	ug/L	40.7	12.2	20		04/21/08 09:46	1634-04-4	
Naphthalene	<14.8	ug/L	100	14.8	20		04/21/08 09:46	91-20-3	

Date: 04/30/2008 04:35 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: MW-110 Lab ID: 402787007 Collected: 04/16/08 18:22 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
n-Propylbenzene	<16.2	ug/L	20.0	16.2	20		04/21/08 09:46	103-65-1	
Styrene	<17.2	ug/L	20.0	17.2	20		04/21/08 09:46	100-42-5	
1,1,1,2-Tetrachloroethane	<18.4	ug/L	20.0	18.4	20		04/21/08 09:46	630-20-6	
1,1,2,2-Tetrachloroethane	<4.0	ug/L	13.3	4.0	20		04/21/08 09:46	79-34-5	
Tetrachloroethene	<9.0	ug/L	20.0	9.0	20		04/21/08 09:46	127-18-4	
Toluene	<13.4	ug/L	20.0	13.4	20		04/21/08 09:46	108-88-3	
1,2,3-Trichlorobenzene	<14.8	ug/L	20.0	14.8	20		04/21/08 09:46	87-61-6	
1,2,4-Trichlorobenzene	<19.4	ug/L	20.0	19.4	20		04/21/08 09:46	120-82-1	
1,1,1-Trichloroethane	918	ug/L	20.0	18.0	20		04/21/08 09:46	71-55-6	
1,1,2-Trichloroethane	<8.4	ug/L	28.0	8.4	20		04/21/08 09:46	79-00-5	
Trichloroethene	28.2	ug/L	20.0	9.6	20		04/21/08 09:46	79-01-6	
Trichlorofluoromethane	<15.8	ug/L	20.0	15.8	20		04/21/08 09:46	75-69-4	
1,2,3-Trichloropropane	<19.8	ug/L	20.0	19.8	20		04/21/08 09:46	96-18-4	
1,2,4-Trimethylbenzene	<19.4	ug/L	20.0	19.4	20		04/21/08 09:46	95-63-6	
1,3,5-Trimethylbenzene	<16.6	ug/L	20.0	16.6	20		04/21/08 09:46	108-67-8	
Vinyl chloride	<3.6	ug/L	12.0	3.6	20		04/21/08 09:46	75-01-4	
m&p-Xylene	<36.0	ug/L	40.0	36.0	20		04/21/08 09:46	1330-20-7	
o-Xylene	<16.6	ug/L	20.0	16.6	20		04/21/08 09:46	95-47-6	
4-Bromofluorobenzene (S)	84	%	64-132		20		04/21/08 09:46	460-00-4	
Dibromofluoromethane (S)	88	%	68-122		20		04/21/08 09:46	1868-53-7	
Toluene-d8 (S)	91	%	73-127		20		04/21/08 09:46	2037-26-5	
335.4 Cyanide, Tot. Dissolved									
Analytical Method: EPA 335.4									
Cyanide	0.055	mg/L	0.020	0.0060	1		04/29/08 11:40	57-12-5	B

Sample: MW-111 Lab ID: 402787008 Collected: 04/16/08 16:29 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Chromium	212	ug/L	5.0	0.57	1		04/18/08 12:48	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		04/21/08 09:22	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		04/21/08 09:22	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		04/21/08 09:22	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		04/21/08 09:22	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		04/21/08 09:22	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		04/21/08 09:22	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		04/21/08 09:22	104-51-8	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		04/21/08 09:22	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 09:22	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		04/21/08 09:22	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		04/21/08 09:22	108-90-7	

ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402787

Sample: MW-111 Lab ID: 402787008 Collected: 04/16/08 16:29 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Chloroethane	<0.97	ug/L	1.0	0.97	1		04/21/08 09:22	75-00-3	
Chloroform	1.2	ug/L	1.2	0.37	1		04/21/08 09:22	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		04/21/08 09:22	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		04/21/08 09:22	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		04/21/08 09:22	106-43-4	
1,2-Dibromo-3-chloropropane	<0.87	ug/L	2.9	0.87	1		04/21/08 09:22	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		04/21/08 09:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		04/21/08 09:22	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		04/21/08 09:22	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		04/21/08 09:22	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		04/21/08 09:22	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		04/21/08 09:22	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		04/21/08 09:22	75-71-8	
1,1-Dichloroethane	1.6	ug/L	1.0	0.75	1		04/21/08 09:22	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		04/21/08 09:22	107-06-2	
1,1-Dichloroethene	2.7	ug/L	1.0	0.57	1		04/21/08 09:22	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		04/21/08 09:22	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		04/21/08 09:22	156-60-5	
1,2-Dichloropropane	<0.46	ug/L	1.0	0.46	1		04/21/08 09:22	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		04/21/08 09:22	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		04/21/08 09:22	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		04/21/08 09:22	563-58-6	
cis-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/21/08 09:22	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/21/08 09:22	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		04/21/08 09:22	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		04/21/08 09:22	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		04/21/08 09:22	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		04/21/08 09:22	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		04/21/08 09:22	99-87-6	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		04/21/08 09:22	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		04/21/08 09:22	1634-04-4	
Naphthalene	<0.74	ug/L	5.0	0.74	1		04/21/08 09:22	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		04/21/08 09:22	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		04/21/08 09:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		04/21/08 09:22	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		04/21/08 09:22	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		04/21/08 09:22	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		04/21/08 09:22	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		04/21/08 09:22	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 09:22	120-82-1	
1,1,1-Trichloroethane	20.3	ug/L	1.0	0.90	1		04/21/08 09:22	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		04/21/08 09:22	79-00-5	
Trichloroethene	52.9	ug/L	1.0	0.48	1		04/21/08 09:22	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		04/21/08 09:22	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		04/21/08 09:22	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 09:22	95-63-6	

Date: 04/30/2008 04:35 PM

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: MW-111 Lab ID: 402787008 Collected: 04/16/08 16:29 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		04/21/08 09:22	108-67-8	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		04/21/08 09:22	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		04/21/08 09:22	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		04/21/08 09:22	95-47-6	
4-Bromofluorobenzene (S)	84	%	64-132		1		04/21/08 09:22	460-00-4	
Dibromofluoromethane (S)	89	%	68-122		1		04/21/08 09:22	1868-53-7	
Toluene-d8 (S)	91	%	73-127		1		04/21/08 09:22	2037-26-5	
335.4 Cyanide, Tot. Dissolved		Analytical Method: EPA 335.4							
Cyanide	0.016J	mg/L	0.020	0.0060	1		04/29/08 11:44	57-12-5	B

Sample: MW-112 Lab ID: 402787009 Collected: 04/16/08 17:04 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	88400	ug/L	50.0	5.7	10		04/18/08 12:53	7440-47-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<4.1	ug/L	10.0	4.1	10		04/21/08 12:11	71-43-2	
Bromobenzene	<8.2	ug/L	10.0	8.2	10		04/21/08 12:11	108-86-1	
Bromochloromethane	<9.7	ug/L	10.0	9.7	10		04/21/08 12:11	74-97-5	
Bromodichloromethane	<5.6	ug/L	18.7	5.6	10		04/21/08 12:11	75-27-4	
Bromoform	<9.4	ug/L	31.3	9.4	10		04/21/08 12:11	75-25-2	
Bromomethane	<9.1	ug/L	30.3	9.1	10		04/21/08 12:11	74-83-9	
n-Butylbenzene	<9.3	ug/L	10.0	9.3	10		04/21/08 12:11	104-51-8	
sec-Butylbenzene	<8.9	ug/L	10.0	8.9	10		04/21/08 12:11	135-98-8	
tert-Butylbenzene	<9.7	ug/L	10.0	9.7	10		04/21/08 12:11	98-06-6	
Carbon tetrachloride	<4.9	ug/L	10.0	4.9	10		04/21/08 12:11	56-23-5	
Chlorobenzene	<4.1	ug/L	10.0	4.1	10		04/21/08 12:11	108-90-7	
Chloroethane	<9.7	ug/L	10.0	9.7	10		04/21/08 12:11	75-00-3	
Chloroform	<3.7	ug/L	12.3	3.7	10		04/21/08 12:11	67-66-3	
Chloromethane	<2.4	ug/L	8.0	2.4	10		04/21/08 12:11	74-87-3	
2-Chlorotoluene	<8.5	ug/L	10.0	8.5	10		04/21/08 12:11	95-49-8	
4-Chlorotoluene	<7.4	ug/L	10.0	7.4	10		04/21/08 12:11	106-43-4	
1,2-Dibromo-3-chloropropane	<8.7	ug/L	29.0	8.7	10		04/21/08 12:11	96-12-8	
Dibromochloromethane	<8.1	ug/L	10.0	8.1	10		04/21/08 12:11	124-48-1	
1,2-Dibromoethane (EDB)	<5.6	ug/L	18.7	5.6	10		04/21/08 12:11	106-93-4	
Dibromomethane	<6.0	ug/L	10.0	6.0	10		04/21/08 12:11	74-95-3	
1,2-Dichlorobenzene	<8.3	ug/L	10.0	8.3	10		04/21/08 12:11	95-50-1	
1,3-Dichlorobenzene	<8.7	ug/L	10.0	8.7	10		04/21/08 12:11	541-73-1	
1,4-Dichlorobenzene	<9.5	ug/L	10.0	9.5	10		04/21/08 12:11	106-46-7	
Dichlorodifluoromethane	<9.9	ug/L	10.0	9.9	10		04/21/08 12:11	75-71-8	
1,1-Dichloroethane	<7.5	ug/L	10.0	7.5	10		04/21/08 12:11	75-34-3	

ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: MW-112 Lab ID: 402787009 Collected: 04/16/08 17:04 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,2-Dichloroethane	<3.6	ug/L	10.0	3.6	10		04/21/08 12:11	107-06-2	
1,1-Dichloroethene	<5.7	ug/L	10.0	5.7	10		04/21/08 12:11	75-35-4	
cis-1,2-Dichloroethene	<8.3	ug/L	10.0	8.3	10		04/21/08 12:11	156-59-2	
trans-1,2-Dichloroethene	<8.9	ug/L	10.0	8.9	10		04/21/08 12:11	156-60-5	
1,2-Dichloropropane	<4.6	ug/L	10.0	4.6	10		04/21/08 12:11	78-87-5	
1,3-Dichloropropane	<6.1	ug/L	20.3	6.1	10		04/21/08 12:11	142-28-9	
2,2-Dichloropropane	<6.2	ug/L	10.0	6.2	10		04/21/08 12:11	594-20-7	
1,1-Dichloropropene	<7.5	ug/L	10.0	7.5	10		04/21/08 12:11	563-58-6	
cis-1,3-Dichloropropene	<1.9	ug/L	6.3	1.9	10		04/21/08 12:11	10061-01-5	
trans-1,3-Dichloropropene	<1.9	ug/L	6.3	1.9	10		04/21/08 12:11	10061-02-6	
Diisopropyl ether	<7.6	ug/L	10.0	7.6	10		04/21/08 12:11	108-20-3	
Ethylbenzene	<5.4	ug/L	10.0	5.4	10		04/21/08 12:11	100-41-4	
Hexachloro-1,3-butadiene	<6.7	ug/L	10.0	6.7	10		04/21/08 12:11	87-68-3	
Isopropylbenzene (Cumene)	<5.9	ug/L	10.0	5.9	10		04/21/08 12:11	98-82-8	
p-Isopropyltoluene	<6.7	ug/L	10.0	6.7	10		04/21/08 12:11	99-87-6	
Methylene Chloride	<4.3	ug/L	14.3	4.3	10		04/21/08 12:11	75-09-2	
Methyl-tert-butyl ether	<6.1	ug/L	20.3	6.1	10		04/21/08 12:11	1634-04-4	
Naphthalene	<7.4	ug/L	50.0	7.4	10		04/21/08 12:11	91-20-3	
n-Propylbenzene	<8.1	ug/L	10.0	8.1	10		04/21/08 12:11	103-65-1	
Styrene	<8.6	ug/L	10.0	8.6	10		04/21/08 12:11	100-42-5	
1,1,1,2-Tetrachloroethane	<9.2	ug/L	10.0	9.2	10		04/21/08 12:11	630-20-6	
1,1,2,2-Tetrachloroethane	<2.0	ug/L	6.7	2.0	10		04/21/08 12:11	79-34-5	
Tetrachloroethene	<4.5	ug/L	10.0	4.5	10		04/21/08 12:11	127-18-4	
Toluene	<6.7	ug/L	10.0	6.7	10		04/21/08 12:11	108-88-3	
1,2,3-Trichlorobenzene	<7.4	ug/L	10.0	7.4	10		04/21/08 12:11	87-61-6	
1,2,4-Trichlorobenzene	<9.7	ug/L	10.0	9.7	10		04/21/08 12:11	120-82-1	
1,1,1-Trichloroethane	20.1	ug/L	10.0	9.0	10		04/21/08 12:11	71-55-6	
1,1,2-Trichloroethane	<4.2	ug/L	14.0	4.2	10		04/21/08 12:11	79-00-5	
Trichloroethene	1130	ug/L	10.0	4.8	10		04/21/08 12:11	79-01-6	
Trichlorofluoromethane	<7.9	ug/L	10.0	7.9	10		04/21/08 12:11	75-69-4	
1,2,3-Trichloropropane	<9.9	ug/L	10.0	9.9	10		04/21/08 12:11	96-18-4	
1,2,4-Trimethylbenzene	<9.7	ug/L	10.0	9.7	10		04/21/08 12:11	95-63-6	
1,3,5-Trimethylbenzene	<8.3	ug/L	10.0	8.3	10		04/21/08 12:11	108-67-8	
Vinyl chloride	<1.8	ug/L	6.0	1.8	10		04/21/08 12:11	75-01-4	
m&p-Xylene	<18.0	ug/L	20.0	18.0	10		04/21/08 12:11	1330-20-7	
o-Xylene	<8.3	ug/L	10.0	8.3	10		04/21/08 12:11	95-47-6	
4-Bromofluorobenzene (S)	83	%	64-132		10		04/21/08 12:11	460-00-4	
Dibromofluoromethane (S)	87	%	68-122		10		04/21/08 12:11	1868-53-7	
Toluene-d8 (S)	90	%	73-127		10		04/21/08 12:11	2037-26-5	

335.4 Cyanide, Tot. Dissolved

Analytical Method: EPA 335.4

Cyanide	0.38	mg/L	0.12	0.036	1		04/29/08 11:44	57-12-5	B
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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: MW-113 Lab ID: 402787010 Collected: 04/16/08 17:50 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Chromium	16400	ug/L	50.0	5.7	10		04/18/08 13:04	7440-47-3	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		04/21/08 11:43	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		04/21/08 11:43	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		04/21/08 11:43	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		04/21/08 11:43	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		04/21/08 11:43	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		04/21/08 11:43	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		04/21/08 11:43	104-51-8	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		04/21/08 11:43	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 11:43	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		04/21/08 11:43	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		04/21/08 11:43	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		04/21/08 11:43	75-00-3	
Chloroform	<0.37	ug/L	1.2	0.37	1		04/21/08 11:43	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		04/21/08 11:43	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		04/21/08 11:43	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		04/21/08 11:43	106-43-4	
1,2-Dibromo-3-chloropropane	<0.87	ug/L	2.9	0.87	1		04/21/08 11:43	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		04/21/08 11:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		04/21/08 11:43	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		04/21/08 11:43	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		04/21/08 11:43	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		04/21/08 11:43	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		04/21/08 11:43	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		04/21/08 11:43	75-71-8	
1,1-Dichloroethane	20.5	ug/L	1.0	0.75	1		04/21/08 11:43	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		04/21/08 11:43	107-06-2	
1,1-Dichloroethene	15.3	ug/L	1.0	0.57	1		04/21/08 11:43	75-35-4	
cis-1,2-Dichloroethene	3.7	ug/L	1.0	0.83	1		04/21/08 11:43	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		04/21/08 11:43	156-60-5	
1,2-Dichloropropane	<0.46	ug/L	1.0	0.46	1		04/21/08 11:43	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		04/21/08 11:43	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		04/21/08 11:43	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		04/21/08 11:43	563-58-6	
cis-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/21/08 11:43	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/21/08 11:43	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		04/21/08 11:43	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		04/21/08 11:43	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		04/21/08 11:43	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		04/21/08 11:43	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		04/21/08 11:43	99-87-6	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		04/21/08 11:43	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		04/21/08 11:43	1634-04-4	
Naphthalene	<0.74	ug/L	5.0	0.74	1		04/21/08 11:43	91-20-3	

ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: MW-113 Lab ID: 402787010 Collected: 04/16/08 17:50 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		04/21/08 11:43	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		04/21/08 11:43	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		04/21/08 11:43	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		04/21/08 11:43	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		04/21/08 11:43	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		04/21/08 11:43	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		04/21/08 11:43	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 11:43	120-82-1	
1,1,1-Trichloroethane	99.7	ug/L	1.0	0.90	1		04/21/08 11:43	71-55-6	
1,1,2-Trichloroethane	0.44J	ug/L	1.4	0.42	1		04/21/08 11:43	79-00-5	
Trichloroethene	62.4	ug/L	1.0	0.48	1		04/21/08 11:43	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		04/21/08 11:43	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		04/21/08 11:43	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		04/21/08 11:43	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		04/21/08 11:43	108-67-8	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		04/21/08 11:43	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		04/21/08 11:43	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		04/21/08 11:43	95-47-6	
4-Bromofluorobenzene (S)	82	%	64-132		1		04/21/08 11:43	460-00-4	
Dibromofluoromethane (S)	89	%	68-122		1		04/21/08 11:43	1868-53-7	
Toluene-d8 (S)	89	%	73-127		1		04/21/08 11:43	2037-26-5	

Sample: TRIP BLANK Lab ID: 402787011 Collected: 04/16/08 00:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		04/18/08 14:22	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		04/18/08 14:22	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		04/18/08 14:22	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.9	0.56	1		04/18/08 14:22	75-27-4	
Bromoform	<0.94	ug/L	3.1	0.94	1		04/18/08 14:22	75-25-2	
Bromomethane	<0.91	ug/L	3.0	0.91	1		04/18/08 14:22	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		04/18/08 14:22	104-51-8	
sec-Butylbenzene	<0.89	ug/L	1.0	0.89	1		04/18/08 14:22	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		04/18/08 14:22	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		04/18/08 14:22	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		04/18/08 14:22	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		04/18/08 14:22	75-00-3	
Chloroform	<0.37	ug/L	1.2	0.37	1		04/18/08 14:22	67-66-3	
Chloromethane	<0.24	ug/L	0.80	0.24	1		04/18/08 14:22	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		04/18/08 14:22	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		04/18/08 14:22	106-43-4	
1,2-Dibromo-3-chloropropane	<0.87	ug/L	2.9	0.87	1		04/18/08 14:22	96-12-8	

Date: 04/30/2008 04:35 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: TRIP BLANK Lab ID: 402787011 Collected: 04/16/08 00:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		04/18/08 14:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.9	0.56	1		04/18/08 14:22	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		04/18/08 14:22	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		04/18/08 14:22	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		04/18/08 14:22	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		04/18/08 14:22	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		04/18/08 14:22	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		04/18/08 14:22	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		04/18/08 14:22	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		04/18/08 14:22	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		04/18/08 14:22	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		04/18/08 14:22	156-60-5	
1,2-Dichloropropane	<0.46	ug/L	1.0	0.46	1		04/18/08 14:22	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	2.0	0.61	1		04/18/08 14:22	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		04/18/08 14:22	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		04/18/08 14:22	563-58-6	
cis-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/18/08 14:22	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	0.63	0.19	1		04/18/08 14:22	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		04/18/08 14:22	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		04/18/08 14:22	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	1.0	0.67	1		04/18/08 14:22	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		04/18/08 14:22	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		04/18/08 14:22	99-87-6	
Methylene Chloride	<0.43	ug/L	1.4	0.43	1		04/18/08 14:22	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	2.0	0.61	1		04/18/08 14:22	1634-04-4	
Naphthalene	<0.74	ug/L	5.0	0.74	1		04/18/08 14:22	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		04/18/08 14:22	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		04/18/08 14:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		04/18/08 14:22	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	0.67	0.20	1		04/18/08 14:22	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		04/18/08 14:22	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		04/18/08 14:22	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		04/18/08 14:22	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		04/18/08 14:22	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		04/18/08 14:22	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.4	0.42	1		04/18/08 14:22	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		04/18/08 14:22	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		04/18/08 14:22	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		04/18/08 14:22	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		04/18/08 14:22	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		04/18/08 14:22	108-67-8	
Vinyl chloride	<0.18	ug/L	0.60	0.18	1		04/18/08 14:22	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		04/18/08 14:22	1330-20-7	
o-Xylene	<0.83	ug/L	1.0	0.83	1		04/18/08 14:22	95-47-6	
4-Bromofluorobenzene (S)	83	%	64-132		1		04/18/08 14:22	460-00-4	
Dibromofluoromethane (S)	85	%	68-122		1		04/18/08 14:22	1868-53-7	

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402787

Sample: TRIP BLANK Lab ID: 402787011 Collected: 04/16/08 00:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene-d8 (S)	89 %		73-127		1		04/18/08 14:22	2037-26-5	

Sample: DUPLICATE Lab ID: 402787012 Collected: 04/16/08 00:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Chromium	88300	ug/L	50.0	5.7	10		04/18/08 13:08	7440-47-3	
8260 MSV Analytical Method: EPA 8260									
Benzene	<4.1	ug/L	10.0	4.1	10		04/21/08 12:34	71-43-2	
Bromobenzene	<8.2	ug/L	10.0	8.2	10		04/21/08 12:34	108-86-1	
Bromochloromethane	<9.7	ug/L	10.0	9.7	10		04/21/08 12:34	74-97-5	
Bromodichloromethane	<5.6	ug/L	18.7	5.6	10		04/21/08 12:34	75-27-4	
Bromoform	<9.4	ug/L	31.3	9.4	10		04/21/08 12:34	75-25-2	
Bromomethane	<9.1	ug/L	30.3	9.1	10		04/21/08 12:34	74-83-9	
n-Butylbenzene	<9.3	ug/L	10.0	9.3	10		04/21/08 12:34	104-51-8	
sec-Butylbenzene	<8.9	ug/L	10.0	8.9	10		04/21/08 12:34	135-98-8	
tert-Butylbenzene	<9.7	ug/L	10.0	9.7	10		04/21/08 12:34	98-06-6	
Carbon tetrachloride	<4.9	ug/L	10.0	4.9	10		04/21/08 12:34	56-23-5	
Chlorobenzene	<4.1	ug/L	10.0	4.1	10		04/21/08 12:34	108-90-7	
Chloroethane	<9.7	ug/L	10.0	9.7	10		04/21/08 12:34	75-00-3	
Chloroform	<3.7	ug/L	12.3	3.7	10		04/21/08 12:34	67-66-3	
Chloromethane	<2.4	ug/L	8.0	2.4	10		04/21/08 12:34	74-87-3	
2-Chlorotoluene	<8.5	ug/L	10.0	8.5	10		04/21/08 12:34	95-49-8	
4-Chlorotoluene	<7.4	ug/L	10.0	7.4	10		04/21/08 12:34	106-43-4	
1,2-Dibromo-3-chloropropane	<8.7	ug/L	29.0	8.7	10		04/21/08 12:34	96-12-8	
Dibromochloromethane	<8.1	ug/L	10.0	8.1	10		04/21/08 12:34	124-48-1	
1,2-Dibromoethane (EDB)	<5.6	ug/L	18.7	5.6	10		04/21/08 12:34	106-93-4	
Dibromomethane	<6.0	ug/L	10.0	6.0	10		04/21/08 12:34	74-95-3	
1,2-Dichlorobenzene	<8.3	ug/L	10.0	8.3	10		04/21/08 12:34	95-50-1	
1,3-Dichlorobenzene	<8.7	ug/L	10.0	8.7	10		04/21/08 12:34	541-73-1	
1,4-Dichlorobenzene	<9.5	ug/L	10.0	9.5	10		04/21/08 12:34	106-46-7	
Dichlorodifluoromethane	<9.9	ug/L	10.0	9.9	10		04/21/08 12:34	75-71-8	
1,1-Dichloroethane	<7.5	ug/L	10.0	7.5	10		04/21/08 12:34	75-34-3	
1,2-Dichloroethane	<3.6	ug/L	10.0	3.6	10		04/21/08 12:34	107-06-2	
1,1-Dichloroethene	<5.7	ug/L	10.0	5.7	10		04/21/08 12:34	75-35-4	
cis-1,2-Dichloroethene	<8.3	ug/L	10.0	8.3	10		04/21/08 12:34	156-59-2	
trans-1,2-Dichloroethene	<8.9	ug/L	10.0	8.9	10		04/21/08 12:34	156-60-5	
1,2-Dichloropropane	<4.6	ug/L	10.0	4.6	10		04/21/08 12:34	78-87-5	
1,3-Dichloropropane	<6.1	ug/L	20.3	6.1	10		04/21/08 12:34	142-28-9	
2,2-Dichloropropane	<6.2	ug/L	10.0	6.2	10		04/21/08 12:34	594-20-7	
1,1-Dichloropropene	<7.5	ug/L	10.0	7.5	10		04/21/08 12:34	563-58-6	
cis-1,3-Dichloropropene	<1.9	ug/L	6.3	1.9	10		04/21/08 12:34	10061-01-5	

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

Sample: DUPLICATE Lab ID: 402787012 Collected: 04/16/08 00:00 Received: 04/17/08 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<1.9 ug/L		6.3	1.9	10		04/21/08 12:34	10061-02-6	
Diisopropyl ether	<7.6 ug/L		10.0	7.6	10		04/21/08 12:34	108-20-3	
Ethylbenzene	<5.4 ug/L		10.0	5.4	10		04/21/08 12:34	100-41-4	
Hexachloro-1,3-butadiene	<6.7 ug/L		10.0	6.7	10		04/21/08 12:34	87-68-3	
Isopropylbenzene (Cumene)	<5.9 ug/L		10.0	5.9	10		04/21/08 12:34	98-82-8	
p-Isopropyltoluene	<6.7 ug/L		10.0	6.7	10		04/21/08 12:34	99-87-6	
Methylene Chloride	<4.3 ug/L		14.3	4.3	10		04/21/08 12:34	75-09-2	
Methyl-tert-butyl ether	<6.1 ug/L		20.3	6.1	10		04/21/08 12:34	1634-04-4	
Naphthalene	<7.4 ug/L		50.0	7.4	10		04/21/08 12:34	91-20-3	
n-Propylbenzene	<8.1 ug/L		10.0	8.1	10		04/21/08 12:34	103-65-1	
Styrene	<8.6 ug/L		10.0	8.6	10		04/21/08 12:34	100-42-5	
1,1,1,2-Tetrachloroethane	<9.2 ug/L		10.0	9.2	10		04/21/08 12:34	630-20-6	
1,1,2,2-Tetrachloroethane	<2.0 ug/L		6.7	2.0	10		04/21/08 12:34	79-34-5	
Tetrachloroethene	<4.5 ug/L		10.0	4.5	10		04/21/08 12:34	127-18-4	
Toluene	<6.7 ug/L		10.0	6.7	10		04/21/08 12:34	108-88-3	
1,2,3-Trichlorobenzene	<7.4 ug/L		10.0	7.4	10		04/21/08 12:34	87-61-6	
1,2,4-Trichlorobenzene	<9.7 ug/L		10.0	9.7	10		04/21/08 12:34	120-82-1	
1,1,1-Trichloroethane	18.6 ug/L		10.0	9.0	10		04/21/08 12:34	71-55-6	
1,1,2-Trichloroethane	<4.2 ug/L		14.0	4.2	10		04/21/08 12:34	79-00-5	
Trichloroethene	1060 ug/L		10.0	4.8	10		04/21/08 12:34	79-01-6	
Trichlorofluoromethane	<7.9 ug/L		10.0	7.9	10		04/21/08 12:34	75-69-4	
1,2,3-Trichloropropane	<9.9 ug/L		10.0	9.9	10		04/21/08 12:34	96-18-4	
1,2,4-Trimethylbenzene	<9.7 ug/L		10.0	9.7	10		04/21/08 12:34	95-63-6	
1,3,5-Trimethylbenzene	<8.3 ug/L		10.0	8.3	10		04/21/08 12:34	108-67-8	
Vinyl chloride	<1.8 ug/L		6.0	1.8	10		04/21/08 12:34	75-01-4	
m&p-Xylene	<18.0 ug/L		20.0	18.0	10		04/21/08 12:34	1330-20-7	
o-Xylene	<8.3 ug/L		10.0	8.3	10		04/21/08 12:34	95-47-6	
4-Bromofluorobenzene (S)	83 %		64-132		10		04/21/08 12:34	460-00-4	
Dibromofluoromethane (S)	91 %		68-122		10		04/21/08 12:34	1868-53-7	
Toluene-d8 (S)	91 %		73-127		10		04/21/08 12:34	2037-26-5	
335.4 Cyanide, Tot. Dissolved									
Analytical Method: EPA 335.4									
Cyanide	0.25 mg/L		0.020	0.0060	1		04/29/08 11:47	57-12-5	B

QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

QC Batch: MSV/1452 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 402787005, 402787006, 402787007, 402787008, 402787009, 402787010, 402787011, 402787012

METHOD BLANK: 17686

Associated Lab Samples: 402787005, 402787006, 402787007, 402787008, 402787009, 402787010, 402787011, 402787012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	0.67	
1,1,2-Trichloroethane	ug/L	<0.42	1.4	
1,1-Dichloroethane	ug/L	<0.75	1.0	
1,1-Dichloroethene	ug/L	<0.57	1.0	
1,1-Dichloropropene	ug/L	<0.75	1.0	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	
1,2-Dibromo-3-chloropropane	ug/L	<0.87	2.9	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.9	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	
1,2-Dichloroethane	ug/L	<0.36	1.0	
1,2-Dichloropropane	ug/L	<0.46	1.0	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	
1,3-Dichloropropane	ug/L	<0.61	2.0	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	
2,2-Dichloropropane	ug/L	<0.62	1.0	
2-Chlorotoluene	ug/L	<0.85	1.0	
4-Chlorotoluene	ug/L	<0.74	1.0	
Benzene	ug/L	<0.41	1.0	
Bromobenzene	ug/L	<0.82	1.0	
Bromochloromethane	ug/L	<0.97	1.0	
Bromodichloromethane	ug/L	<0.56	1.9	
Bromoform	ug/L	<0.94	3.1	
Bromomethane	ug/L	<0.91	3.0	
Carbon tetrachloride	ug/L	<0.49	1.0	
Chlorobenzene	ug/L	<0.41	1.0	
Chloroethane	ug/L	<0.97	1.0	
Chloroform	ug/L	<0.37	1.2	
Chloromethane	ug/L	<0.24	0.80	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	
cis-1,3-Dichloropropene	ug/L	<0.19	0.63	
Dibromochloromethane	ug/L	<0.81	1.0	
Dibromomethane	ug/L	<0.60	1.0	
Dichlorodifluoromethane	ug/L	<0.99	1.0	
Diisopropyl ether	ug/L	<0.76	1.0	
Ethylbenzene	ug/L	<0.54	1.0	
Hexachloro-1,3-butadiene	ug/L	<0.67	1.0	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	

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QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

METHOD BLANK: 17686

Associated Lab Samples: 402787005, 402787006, 402787007, 402787008, 402787009, 402787010, 402787011, 402787012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	
Methyl-tert-butyl ether	ug/L	<0.61	2.0	
Methylene Chloride	ug/L	<0.43	1.4	
n-Butylbenzene	ug/L	<0.93	1.0	
n-Propylbenzene	ug/L	<0.81	1.0	
Naphthalene	ug/L	<0.74	5.0	
o-Xylene	ug/L	<0.83	1.0	
p-Isopropyltoluene	ug/L	<0.67	1.0	
sec-Butylbenzene	ug/L	<0.89	1.0	
Styrene	ug/L	<0.86	1.0	
tert-Butylbenzene	ug/L	<0.97	1.0	
Tetrachloroethene	ug/L	<0.45	1.0	
Toluene	ug/L	<0.67	1.0	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	
trans-1,3-Dichloropropene	ug/L	<0.19	0.63	
Trichloroethene	ug/L	<0.48	1.0	
Trichlorofluoromethane	ug/L	<0.79	1.0	
Vinyl chloride	ug/L	<0.18	0.60	
4-Bromofluorobenzene (S)	%	84	64-132	
Dibromofluoromethane (S)	%	84	68-122	
Toluene-d8 (S)	%	90	73-127	

LABORATORY CONTROL SAMPLE & LCS: 17687

17688

Parameter	Units	Spike Conc.	LCS Result	LCS Result	LCS % Rec	LCS % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.0	50.3	104	101	75-128	3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	45.6	46.5	91	93	67-125	2	20	
1,1,2-Trichloroethane	ug/L	50	50.5	51.3	101	103	75-125	2	20	
1,1-Dichloroethane	ug/L	50	53.9	51.7	108	103	71-130	4	20	
1,1-Dichloroethene	ug/L	50	54.2	53.1	108	106	75-125	2	20	
1,2-Dichloroethane	ug/L	50	51.8	50.7	104	101	71-132	2	20	
1,2-Dichloropropane	ug/L	50	52.7	51.8	105	104	73-125	2	20	
Benzene	ug/L	50	52.0	51.4	104	103	75-125	1	20	
Bromodichloromethane	ug/L	50	48.8	47.4	98	95	75-125	3	20	
Bromoform	ug/L	50	48.1	48.9	96	98	75-125	2	20	
Bromomethane	ug/L	50	41.2	41.2	82	82	66-125	.05	20	
Carbon tetrachloride	ug/L	50	52.4	51.2	105	102	75-125	2	20	
Chlorobenzene	ug/L	50	51.0	50.8	102	102	75-125	.4	20	
Chloroethane	ug/L	50	47.1	46.3	94	93	72-126	2	20	
Chloroform	ug/L	50	50.2	49.8	100	100	75-125	.8	20	
Chloromethane	ug/L	50	38.8	38.1	78	76	46-143	2	20	
cis-1,2-Dichloroethene	ug/L	50	52.3	51.8	105	104	75-125	1	20	
cis-1,3-Dichloropropene	ug/L	50	54.0	52.9	108	106	75-125	2	20	
Dibromochloromethane	ug/L	50	47.7	48.5	95	97	75-125	2	20	
Ethylbenzene	ug/L	50	55.7	55.0	111	110	75-125	1	20	

QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

LABORATORY CONTROL SAMPLE & LCSD: 17687

Parameter	Units	17688		LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result								
m&p-Xylene	ug/L	100	112	112	111	112	111	75-125	1	20	
Methylene Chloride	ug/L	50	54.6	53.5	109	107	107	75-125	2	20	
o-Xylene	ug/L	50	55.7	55.8	111	112	112	75-125	.2	20	
Styrene	ug/L	50	48.3	47.9	97	96	96	75-125	.8	20	
Tetrachloroethene	ug/L	50	50.8	50.2	102	100	100	75-130	1	20	
Toluene	ug/L	50	54.5	53.3	109	107	107	75-125	2	20	
trans-1,2-Dichloroethene	ug/L	50	50.4	48.8	101	98	98	75-125	3	20	
trans-1,3-Dichloropropene	ug/L	50	52.7	53.4	105	107	107	75-125	1	20	
Trichloroethene	ug/L	50	54.6	52.4	109	105	105	75-125	4	20	
Vinyl chloride	ug/L	50	45.5	44.3	91	89	89	65-130	3	20	
4-Bromofluorobenzene (S)	%					85	86	64-132			
Dibromofluoromethane (S)	%					88	87	68-122			
Toluene-d8 (S)	%					91	92	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17819

Parameter	Units	402748001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
1,1,1-Trichloroethane	ug/L	<0.90	50	50	62.8	54.7	126	109	70-130	14	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	56.3	51.4	113	103	70-130	9	30	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	62.9	55.8	126	112	70-130	12	30	
1,1-Dichloroethane	ug/L	<0.75	50	50	63.5	55.8	127	112	70-130	13	30	
1,1-Dichloroethene	ug/L	<0.57	50	50	63.7	55.3	127	111	70-135	14	30	
1,2-Dichloroethane	ug/L	<0.36	50	50	61.4	53.1	123	106	70-130	15	30	
1,2-Dichloropropane	ug/L	<0.46	50	50	62.2	53.9	124	108	70-130	14	30	
Benzene	ug/L	<0.41	50	50	62.6	55.0	125	110	70-130	13	30	
Bromodichloromethane	ug/L	<0.56	50	50	59.0	49.6	118	99	70-130	17	30	
Bromoform	ug/L	<0.94	50	50	57.8	47.9	116	96	70-130	19	30	
Bromomethane	ug/L	<0.91	50	50	51.5	44.4	103	89	63-147	15	30	
Carbon tetrachloride	ug/L	<0.49	50	50	62.3	53.8	125	108	70-131	15	30	
Chlorobenzene	ug/L	<0.41	50	50	61.7	54.0	123	108	70-130	13	30	
Chloroethane	ug/L	<0.97	50	50	55.7	49.2	111	98	67-138	12	30	
Chloroform	ug/L	0.39J	50	50	60.8	53.3	121	106	70-130	13	30	
Chloromethane	ug/L	<0.24	50	50	44.9	39.7	90	79	43-150	12	30	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	63.2	55.3	126	111	70-130	13	30	
cis-1,3-Dichloropropene	ug/L	<0.19	50	50	64.7	54.4	129	109	70-130	17	30	
Dibromochloromethane	ug/L	<0.81	50	50	57.3	49.8	115	100	70-130	14	30	
Ethylbenzene	ug/L	0.89J	50	50	64.4	56.8	127	112	70-136	13	30	
m&p-Xylene	ug/L	<1.8	100	100	121	106	120	105	70-137	13	30	
Methylene Chloride	ug/L	<0.43	50	50	64.2	56.7	128	113	70-130	13	30	
o-Xylene	ug/L	<0.83	50	50	62.1	55.5	123	110	70-130	11	30	
Styrene	ug/L	<0.86	50	50	34.4	32.5	69	65	70-130	5	30	
Tetrachloroethene	ug/L	<0.45	50	50	60.6	52.6	121	105	70-130	14	30	
Toluene	ug/L	<0.67	50	50	62.9	55.3	125	110	70-130	13	30	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	58.6	52.8	117	106	70-130	10	30	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	62.4	54.2	125	108	70-130	14	30	
Trichloroethene	ug/L	<0.48	50	50	62.4	53.3	125	107	70-130	16	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17819 17820

Parameter	Units	402748001 Result	MS		MSD		% Rec		% Rec Limits	Max		Qual
			Spike Conc.	MS Result	MSD Result	% Rec	RPD	RPD				
Vinyl chloride	ug/L	<0.18	50	50	54.6	47.6	109	95	62-138	14	30	
4-Bromofluorobenzene (S)	%						87	86	64-132			
Dibromofluoromethane (S)	%						87	87	68-122			
Toluene-d8 (S)	%						91	91	73-127			

QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

QC Batch: ICP/1121 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 402787001, 402787002, 402787003, 402787004, 402787005, 402787006, 402787007, 402787008, 402787009, 402787010, 402787012

METHOD BLANK: 17853

Associated Lab Samples: 402787001, 402787002, 402787003, 402787004, 402787005, 402787006, 402787007, 402787008, 402787009, 402787010, 402787012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium	ug/L	<0.57	5.0	

LABORATORY CONTROL SAMPLE: 17854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	487	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17855 17856

Parameter	Units	402792001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Chromium	ug/L	<0.57	500	500	474	473	95	95	75-125	.1	20	

QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

QC Batch: WETA/1383 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 402787007, 402787008, 402787009, 402787012

METHOD BLANK: 21157

Associated Lab Samples: 402787007, 402787008, 402787009, 402787012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	0.0070J	0.020	

LABORATORY CONTROL SAMPLE: 21158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 21159 21160

Parameter	Units	402787009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.38	.6	.6	0.99	0.99	102	103	90-110	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 21161 21162

Parameter	Units	402860007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.064J	.6	.6	0.70	0.69	105	105	90-110	.3	20	

QUALIFIERS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402787

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.



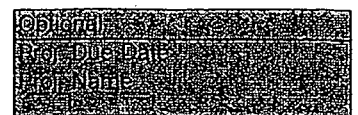
Sample Condition Upon Receipt

Client Name: OMNI Project # 402787

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

Cooler Temperature ROI Biological Tissue is Frozen: Yes No Date and Initials of person examining contents: 6/4/17/08
Temp should be above freezing to 6°C Comments: VMW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>1/14</u>
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>CA</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: [Signature] Date: 4/18/08

(Please Print Clearly)

Company Name: **OMNINI ASSOCIATES**
 Branch/Location: **APPLETON**
 Project Contact: **BRIAN WAYNER**
 Phone: **920/830-6141**
 Project Number: **N1866A05/003**
 Project Name: **MAUTHE**
 Project State: **WI**
 Sampled By (Print): **BRIAN WAYNER**
 Sampled By (Sign): *Brian D. Wayner*
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

SYN	Pick Letter	Matrix	Analysis Requested
X	N	N	CHROMIUM
D	B	G	VOC
			TOTAL CYANIDE

Quote #: **MAUTHE**
 Mail To Contact: **BRIAN WAYNER**
 Mail To Company: **OMNINI ASSOCIATES**
 Mail To Address: **ONE SYSTEMS DR.
APPLETON, WI 54911**
 Invoice To Contact: **BRIAN WAYNER**
 Invoice To Company: **OMNINI**
 Invoice To Address: **SAME**
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	CHROMIUM	VOC	TOTAL CYANIDE	LAB COMMENTS
		DATE	TIME						
001	MW-101	4/16/08	19:00	GW	X				1-250ml
002	MW-102		13:53		X				↓
003	MW-103		12:41		X				↓
004	MW-104		12:03		X				↓
005	MW-107		15:06		X	X			1-250ml ^D , 3-40ml
006	MW-109		15:49		X	X			↓
007	MW-110		18:22		X	X	X		2-250ml ^{D,G} , 3-40ml
008	MW-111		16:29		X	X	X		↓
009	MW-112		17:04		X	X	X		↓
010	MW-113		17:50		X	X			1-250ml ^D , 3-40ml
011	TRIP					X			2-40ml
012	DUPLICATE				X	X	X		2-250ml ^{D,G} , 3-40ml

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>Brian D. Wayner</i> Date/Time: <i>4/16/08 3:45pm</i>	Received By: <i>D. Muelke</i> Date/Time: <i>4/17/08 9:00</i>	PACE Project No. 402787
	Relinquished By: <i>D. Muelke</i> Date/Time: <i>4/17/08 14:05</i>	Received By: <i>[Signature]</i> Date/Time: <i>4/17/08 1405</i>	
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH OK / Adjusted
Email #1:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal Present / Not Present
Email #2:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Intact / Not Intact
Telephone:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	



INVOICE

Pace Analytical Services, Inc.
 1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 Phone: (920)469-2436

Invoice Number: 084001588
Date: 04/23/2008

Sold To:

Omni Associates, Inc.
 Omni Associates, Inc.
 One Systems Drive
 Appleton, WI 54914-1654
 (920) 830-6141

Please Remit To:

Pace Analytical Services, Inc.
 P.O. Box 684056
 Milwaukee, WI 53268-4056

Client Number/Client ID	Purchase Order No	Pace Project Mgr	Terms	Page
40-000578 / OMNI ASSOC.		Steven Mleczo	Net 30 Days	1

Client Project: N1866A05/003 MAUTHE
Pace Project No: 402943
Report Sent To: Brian Wayner, Omni Associates, Inc.
Comments:

Client Name: OMNI ASSOCIATES, INC.
Sample Received: 4/22/2008

ANALYTICAL CHARGES

Quantity	Unit	Description	Method	Matrix	Price	Total
1	Ea	7196 Chromium, Hexavalent	EPA 7196	Water	\$30.00	\$30.00
					Analytical Subtotal	\$30.00

Total Number of Charges 1

Total Invoice Amount \$30.00

*If you have any questions regarding this invoice, please contact Steven Mleczo at Pace.
 Phone: (920)469-2436 Email: steve.mleczo@pacelabs.com*

**1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS.
 PLEASE REFERENCE THE INVOICE NUMBER ON ALL REMITTANCE ADVICE.**

AN EQUAL OPPORTUNITY EMPLOYER

Please complete and return copy of invoice with your payment.

Method of Payment: Check / VISA / MasterCard / American Express (circle one) Phone #: _____ Fax #: _____

Credit Card Holder: (print) _____ Email Address: _____ Amount Paid: \$ _____

Credit Card Account No: _____ Exp Date: _____ Zip Code: _____ Check No: _____

Signature: _____ Customer Name: Omni Associates, Inc. Customer No: 40-000578 Invoice No: 084001588

INVOICE TOTAL \$30.00



Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2430

April 23, 2008

Brian Wayner
Omni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE
Pace Project No.: 402943

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 22, 2008. 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,

Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402943

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: N1866A05/003 MAUTHE
Pace Project No.: 402943

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402943001	OUTFALL 001	Water	04/22/08 07:05	04/22/08 15:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE
Pace Project No.: 402943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
402943001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: N1866A05/003 MAUTHE
Pace Project No.: 402943

Method: EPA 7196
Description: 7196 Chromium, Hexavalent
Client: OMNI ASSOCIATES, INC.
Date: April 23, 2008

General Information:

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 402943

Sample: **OUTFALL 001** Lab ID: **402943001** Collected: 04/22/08 07:05 Received: 04/22/08 15:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytical Method: EPA 7196								
Chromium, Hexavalent	0.87	mg/L	0.057	0.017	5		04/22/08 16:00	18540-29-9	

QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 402943

QC Batch: WETA/1358 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 402943001

METHOD BLANK: 19390
Associated Lab Samples: 402943001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.011	

LABORATORY CONTROL SAMPLE: 19391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.29	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 19392 19393

Parameter	Units	402943001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/L	0.87	1.5	1.5	2.4	2.4	102	103	90-110	1	20	

QUALIFIERS

Project: N1866A05/003 MAUTHE
Pace Project No.: 402943

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay



Sample Condition Upon Receipt

Client Name: Omni Assoc Project # 402943

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

Cooler Temperature ROT Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 4-22-08 cy

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Hex Chrome</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>SW</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 4/23/08

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)

(Please Print Clearly)

Company Name: OMNNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-6141
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian J. Wayner*
 PO #:



COC No.

031273

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested																	
N	A	HEXAVALENT CHROMIUM																	

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNNI
 Invoice To Address: SAME
 Invoice To Phone:
 CLIENT COMMENTS: LAB COMMENTS (Lab Use Only) Profile #
 1-250ml > A

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	OUTFALL 001	4/22/08	7:05	GW

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>Brian Wayner</i> Date/Time: 4/22/08 08:00 AM	Received By: <i>D. Muelke</i> Date/Time: 4/23/08 9:55	PACE Project No. 402943	
Relinquished By: <i>D. Muelke</i> Date/Time: 4/22/08 15:45	Received By: <i>C. J. Pace</i> Date/Time: 4/22/08 15:45		Receipt Temp = <i>ROT</i> °C
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____		Sample Receipt pH OK / Adjusted
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____		Cooler Custody Seal Present / Not Present Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

May 01, 2008

Brian Wayner
Omni Associates, Inc.
One Systems Drive
Appleton, WI 549141654

RE: Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2008. 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,



Steven Mleczo

steve.mleczo@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc
1241 Bellevue Street
Green Bay, WI 54302
(920)469-243

CERTIFICATIONS

Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

Lab ID	Sample ID	Matrix	Date Collected	Date Received
403190001	OUTFALL 001	Water	04/29/08 06:58	04/29/08 14:50

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SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
403190001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

Method: EPA 7196
Description: 7196 Chromium, Hexavalent
Client: OMNNI ASSOCIATES, INC.
Date: May 01, 2008

General Information:

1 sample was analyzed for EPA 7196. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1408

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403171001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 21930)
 - Chromium, Hexavalent
- MSD (Lab ID: 21931)
 - Chromium, Hexavalent

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS



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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

Sample: OUTFALL 001 Lab ID: 403190001 Collected: 04/29/08 06:58 Received: 04/29/08 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytical Method: EPA 7196								
Chromium, Hexavalent	0.51	mg/L	0.057	0.017	5		04/29/08 16:40	18540-29-9	



QUALITY CONTROL DATA

Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

QC Batch: WETA/1408 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 403190001

METHOD BLANK: 21928

Associated Lab Samples: 403190001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium, Hexavalent	mg/L	<0.0034	0.011	

LABORATORY CONTROL SAMPLE: 21929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.29	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 21930 21931

Parameter	Units	403171001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec		RPD	RPD	Qual
Chromium, Hexavalent	mg/L	ND	.3	.3	0.22	0.24	74	81	90-110	8	20	M0

QUALIFIERS

Project: N1866A05/003 MAUTHE
Pace Project No.: 403190

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Sample Condition Upon Receipt



Client Name: Oman/

Project # 403190

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

Cooler Temperature 201 Biological Tissue is Frozen: Yes No
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: ci 4/29/08

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>24-hr. Hex</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: [Signature]

Date: 4/29/08

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)

(Please Print Clearly)

031274

Company Name: OMNNI ASSOCIATES
 Branch/Location: APPLETON
 Project Contact: BRIAN WAYNER
 Phone: 920/830-641
 Project Number: N1866A05/003
 Project Name: MAUTHE
 Project State: WI
 Sampled By (Print): BRIAN WAYNER
 Sampled By (Sign): *Brian D. Wayner*
 PO #:



CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested																
N	A	HEXAVALENT CHROMIUM																

Quote #: MAUTHE
 Mail To Contact: BRIAN WAYNER
 Mail To Company: OMNNI ASSOCIATES
 Mail To Address: ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 Invoice To Contact: BRIAN WAYNER
 Invoice To Company: OMNNI
 Invoice To Address: SAME
 Invoice To Phone:
 CLIENT COMMENTS: LAB COMMENTS (Lab Use Only) Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested
		DATE	TIME		
001	OUTFALL 001	4/29/08	6:58	GW	X

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>B. D. Wayner</i> Date/Time: 4/29/08 7:40	Received By: <i>B. Kemper</i> Date/Time: 4/29/08 0915
Relinquished By: <i>B. Kemper</i> Date/Time: 4/29/08 1450	Received By: <i>R. D.</i> Date/Time: 4/29/08 1450
Relinquished By: Date/Time:	Received By: Date/Time:
Relinquished By: Date/Time:	Received By: Date/Time:
Relinquished By: Date/Time:	Received By: Date/Time:

PACE Project No. 4103190
 Receipt Temp = 201 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

ENGINEERING • ARCHITECTURE • ENVIRONMENTAL

OMNI
ASSOCIATES

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