

Operation and Maintenance Report

No. 59

**N.W. Mauthe Superfund Site
Appleton, Wisconsin**

November 12, 2019
Terracon Project No. 58117057
WDNR BRRTS No. 02-45-000127



Prepared for:
Wisconsin Department of Natural Resources
Oshkosh, Wisconsin

Prepared by:
Terracon Consultants, Inc.
Franklin, Wisconsin

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November 12, 2019



Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
625 East County Road Y, Suite 700
Oshkosh, Wisconsin 54901-9731

Attn: Ms. Jennifer Borski

Re: Operation and Maintenance Report No. 59
N.W. Mauthe Superfund Site
725 South Outagamie Street
Appleton, Wisconsin
WDNR BRRTS No. 02-45-000127
Terracon Project No. 58117057

Dear Ms. Borski:

Terracon Consultants, Inc. (Terracon) has prepared this Operation and Maintenance Report to summarize the activities that took place at the above-referenced site from October 1, 2018, through September 30, 2019. The report documents system operations and site conditions through the reporting period and recommends continued system operation without change.

Sincerely,
Terracon Consultants, Inc.

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Scott A. Hodgson, P.G.
Senior Project Manager

Blaine R. Schroyer
Blaine R. Schroyer, P.E.
Principal Office Manager

SAH/BRS:sah\P58WFS01\Data\Projects\2011\58117057\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Semi-Annual O _M Reports\58117057 O_M59.Oct.2019.final.docx

Copy to: File
Brian Kreski (City of Appleton Department of Utilities Environmental Programs Coordinator)



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Geotechnical



Environmental



Construction Materials



Facilities

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OPERATION AND MAINTENANCE REPORT NO. 59

N.W. MAUTHE SUPERFUND SITE
725 SOUTH OUTAGAMIE STREET
APPLETON, WISCONSIN

November 12, 2019
Terracon Project No. 58117057

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) was retained by the Wisconsin Department of Natural Resources (WDNR) to perform remedial system operation and maintenance services at the above-referenced site. The WDNR project contact is Ms. Jennifer Borski, Oshkosh Service Center.

2.0 BACKGROUND

2.1 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 NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 34, T21N, R17E, Outagamie County (Figure 1 – Site Location Map, Appendix A).

2.2 Site History

The Mauthe site is 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 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 the following.

- 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 milligrams per kilogram (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 (ARARs)
- 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 at 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 observation 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 showed contamination remained in the soil above ch. NR 720 Wisconsin Administrative Code (WAC) levels, in the groundwater above ch. NR 140 WAC enforcement standards, and in the groundwater above the applicable or relevant and appropriate requirements (ARARs) established for the Mauthe site. Groundwater did 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 wastewater treatment facility.

On October 13, 2007, MCO discontinued operational responsibilities of the system. OMNNI began operational responsibilities on October 14, 2007 and maintained responsibility through September 30, 2011. Terracon assumed system operation responsibilities on October 1, 2011.

2.3 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 (Figure 2 – Site Detail Map, Appendix A). 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. The current building onsite houses the treatment facility. Approximately half of the land immediately surrounding the site contains impervious structures or paved roads and parking areas.

2.4 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 feet in length. The central trench runs south of the site parallel to the railroad and is approximately 280 feet in length. The southeast trench runs along Second and Outagamie streets and is approximately 600 feet in length (Figure 2 – Site Detail Map, Appendix A).

The groundwater treatment system was designed to capture groundwater containing contaminants at concentrations greater than 1992 Chapter NR 140, WAC preventive 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.

Under normal operation, water levels are maintained at or near the bottom of the trenches. The trenches can provide storage and continue to act as a hydraulic barrier until the water in the trenches rises to the level of the water table. This storage capacity allows the hydraulic barrier to continue even when 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 manhole/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 manhole extends approximately 31 fbgs. The southeast trench collection piping enters Manhole 2 at a depth of approximately 17 fbgs, and the central trench collection piping enters Manhole 2 at a depth of approximately 28 fbgs. Groundwater from the manholes is piped to the treatment facility (Figure 2 – Site Detail Map, Appendix A).

2.5 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 6 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 approximately 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 was an air-operated, double-diaphragm pump with an 86 gpm capacity. The reaction tank feed pump was 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 allowed for the collection and transfer of sludge. The volume of water treated during a batch process was 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 were the primary parts in the treatment process. However, there were several other components necessary for the successful treatment of contaminated groundwater. They included a 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 were 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, auto dialer, PLC system, and uninterruptible power supply. The master control panel also sounds 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 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 City of Appleton industrial user permit 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.

The current Appleton Industrial User (Wastewater Discharge) permit was reissued on May 31, 2018 (Permit No. 18-21). The permit allows the continuation of groundwater direct discharge to the sanitary sewer as long as contaminant concentrations remain below discharge limits. Permit No. 18-21 expires at midnight, May 31, 2021.

2.6 Groundwater Monitoring Network

The groundwater monitoring wells (water table observation 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 11 observation wells constructed during the RI and the remedial action (RA) activities (W-2, W-8, W-15, and MW-101 through MW-108), 5 observation wells (MW-109 through MW-113) installed in May 2006, and 4 piezometers (PZ5 through PZ8) installed in May 2005 to evaluate the remaining source area (Figure 2 – Site Detail Map, Appendix A). The following descriptions are reflective of static groundwater conditions; however, pumping from the manholes/trenches affects site conditions such that static conditions are usually not observed.

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

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

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

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

Five observation wells (MW-109 through MW-113) installed in May 2006 are located at former source areas identified during the RI. They are described as follows.

- MW-109 is located at the west edge of the former chromium building between two historical 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 historical 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 an 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.

On May 10, 2004, four piezometers (PZ-01, PZ-02, PZ-03, and PZ-04) were removed. 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.

3.0 INFLUENT/EFFLUENT MONITORING AND REPORTING

Prior to October 2012, effluent samples were collected at the Outfall 001¹ sample collection port. The discharge valve from the storage tank was closed, typically one to three days prior to sampling, depending on the anticipated groundwater infiltration into the collection system. The storage tank was allowed to accumulate pumped water until the sampling event, typically Thursday morning. The discharge valve was opened and water was allowed to discharge for approximately 5 minutes. The Outfall 001 sampling port was opened and approximately 10 gallons of water was allowed to discharge from the sampling port prior to collecting a sample.

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.

On October 19, 2012, system plumbing changes were completed to improve the sampling method. Terracon contracted Ogden Plumbing to replumb the system effluent line so that a greater volume of water was retained within the equalization tank and to install a sampling port on the equalization tank Outfall 001 discharge pipe. Due to the improvement in the system plumbing, Terracon now collects a composite effluent sample from the sampling port on the equalization tank Outfall 001 discharge pipe. Samples are typically collected the first Thursday of the month.

3.1 Monthly Monitoring and Reporting

During the monthly monitoring events for this reporting period, unfiltered samples were collected from the equalization tank Outfall 001 sample port and analyzed for hexavalent chromium and total dissolved chromium. A pH value from the Outfall 001 sample was also determined on the samples collected by using an Oakton pHTestrs. Pace Analytical Services, Inc. (Pace) performed the laboratory analysis. Pace provided an electronic report of the analysis to Scott Hodgson, Terracon's project manager, who emailed the report to Jennifer Borski, WDNR project manager. A summary of the laboratory analysis can be found in Table 1 – Influent and Effluent Summary, Appendix B.

During the monthly monitoring events, an unfiltered sample was collected from the Manhole 1 influent sampling port and from the Manhole 2 influent sampling port. The presence of hexavalent chromium was measured in the Manhole 1 and 2 influent samples using a Hach test kit, model Pocket Colorimeter II, and pH values were determined using an Oakton pHTestrs. The pounds of total chromium removed by the system each month is shown in Table 1.

Total flows from Outfall 001, from Manhole 1, and from Manhole 2 were recorded on an Operator Log Sheet during the monthly sample collection. Total flows from Outfall 001, from Manhole 1, and from Manhole 2 are also recorded periodically throughout the month (Table 1 – Influent and Effluent Summary, Appendix B). A monthly email message was sent to the City of Appleton Department of Utilities Environmental Programs Coordinator and the WDNR project manager with the total flow that was recorded from Outfall 001.

The WDNR project manager was provided with a monthly status report summarizing operation and maintenance at the site. The monthly status reports included Terracon's invoice for services from the previous 28-day period, a copy of subcontractor invoices paid during the month, a copy of the Operator Log Sheets, a copy of the Inspection Sheet, and a copy of Table 1 – Influent and Effluent Summary Quarterly Monitoring and Reporting.

3.2 Quarterly Monitoring and Reporting

A quarterly compliance report was submitted by email to the City of Appleton Department of Utilities Environmental Projects Coordinator, Brian Kreski, and the WDNR project manager, Jennifer Borski, on October 2, 2018, (Third Quarter 2018), January 4, 2019 (Fourth Quarter 2018), April 2, 2019 (First Quarter 2019), and July 9, 2019 (Second Quarter 2019). Each quarterly compliance report included total metered discharge readings, pH measurements, and laboratory analytic test reports. There were no effluent limit exceedances during this reporting period.

3.3 Annual Monitoring and Reporting

Prior to 2019 the Monitoring Report was completed on a semi-annual basis, however, beginning in 2019 the two semi-annual monitoring reports will be condensed into one annual report. The annual reporting consists of this document, the Annual Operation and Maintenance Report, which is prepared for the WDNR project manager after receiving the laboratory data from the annual groundwater sampling or water level measurement/inspection event. The Annual Operation and Maintenance Report includes the Operation, Maintenance, Monitoring and Optimization Reporting of Soil and Groundwater Remediation Systems, Form 4400-194 (see Form 4400-194, Appendix D).

4.0 COMPLIANCE SAMPLING

Compliance sampling of the groundwater effluent is conducted twice per year by the City of Appleton and once per year by Terracon. The sample is collected at the sampling port for Outfall 001 at the storage tank. The effluent is analyzed for the parameters listed in Table 2 – City of Appleton Compliance Limits, Outfall 001, Appendix B. Compliance sampling was conducted by the City of Appleton on April 18, 2019 and September 18, 2019, and by Terracon on July 10, 2019, during this reporting period. During the Terracon July 10, 2019, sampling the lab forgot to pick up the collected samples, so that the hexavalent chromium sample could not be extracted within the 12-hour limit. As such, Terracon returned on July 11, 2019, to re-collect the hexavalent and total chromium samples.

A summary of the City of Appleton's compliance sampling analysis and Terracon's annual compliance sampling analysis can be found in Table 2 – City of Appleton Compliance Limits, Outfall 001, Appendix B.

In addition to the sampling events listed above, and as described in Section 3.0, total chromium and hexavalent chromium are currently analyzed monthly for a sample collected from the Outfall 001 sampling port on the equalizer tank (Table 1 – Influent and Effluent Summary, Appendix B).

5.0 GROUNDWATER SAMPLING

5.1 Groundwater Sampling Procedures

Three adjustments to the original monitoring plan have been requested since 1997. On December 3, 1999, Jennifer Huffman with the WDNR requested an adjustment that included the following.

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, except for continued cyanide sampling in monitoring wells MW-110, MW-111, and MW-112 and semi-annual VOC sampling rather than annual VOC sampling as requested.

On March 24, 2003, Jennifer Borski with the WDNR requested the following adjustment 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
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.

On September 19, 2018, Jennifer Borski with the WDNR requested the following adjustment to the monitoring plan.

1. Total (dissolved) chromium will be analyzed every two years in September at MW-101, MW-102, MW-103, MW-104, MW-107, MW-109, MW-110, MW-111, MW-112 and MW-113;
2. Total (dissolved) chromium will continue to be analyzed every four years in September at perimeter wells W-2, W-8, W-15, MW-105, MW-106 and MW-108;
3. Cyanide will be analyzed every two years in September at MW-110, MW-111 and MW-112
4. VOCs will be analyzed every two years in September at MW-107, MW-109, MW-110, MW-111, MW-112 and MW-113.

EPA approved the 2018 request on November 13, 2018. EPA recommended that for the wells sampled only during the 4-year event three well (casing) volumes should be purged and then the wells sampled using low-flow and stabilization parameters.

There are 20 groundwater monitoring wells including 16 water table observation wells and 4 piezometers associated with the Mauthe remediation system (see Figure 2 – Site Detail Map, Appendix A).

Groundwater samples were collected during this reporting period on September 25 and 26, 2019, as part of the comprehensive 4-year sampling event. During the sampling event, static groundwater levels were measured in each of the 14 site monitoring wells sampled including observation wells W-2, W-8, W-15, MW-101, MW-103, MW-104, and MW-106 through MW-113, prior to sampling. Groundwater levels were not measured in observation wells MW-102 and MW-105 because the flushmount cover bolts were bent and the well could not be opened. Historical groundwater elevations for the site are summarized in Table 3 – Groundwater Elevations, Appendix B, and presented graphically on Figure 3 – Groundwater Hydrographs, Appendix A. The groundwater elevation data from the observation wells was used to develop a groundwater contour map (Figure 4 – Groundwater Table Contour Map—September 2019, Appendix A). Groundwater flow was generally towards the collection trenches. The gradient immediately adjacent to the trenches is very steep because the groundwater elevation in the trench, in general, is at the elevation of the sump high float level (approximately 25 feet below surface grade) and low-conductivity clay soils exist in the area. As a result, the complex flow pattern and steep gradient near the trenches cannot be accurately depicted at the required map scale. As such, Terracon has used professional judgment to depict the groundwater elevation near the trench as an accessory contour on Figure 4, placed to show the general flow pattern near the trenches.

Down-well tubing was installed in monitoring points to be sampled. A peristaltic pump was attached to the down-well tubing and the monitoring points were micro-purged using low-flow techniques before collecting the sample(s). The sampling process utilized a flow-through cell where probes measured temperature, conductivity (specific conductance), pH, dissolved oxygen (DO), and oxidation/reduction potential (ORP) in each well. Flow through the cell was maintained at approximately 200 milliliters per minute (mL/min), utilizing a resister to control pump flow. Purging proceeded until parameters were stable to within 10% for 3 consecutive readings taken a minimum of 2 minutes apart. The six monitoring wells sampled only during the 4-year event that required purging of three well casing volumes were initially purged using a peristaltic pump set at the highest speed after first measuring the temperature, conductivity, pH, DO, and ORP under static conditions. The peristaltic pump speed was then reduced to approximately 200 mL/min to purge the last gallon prior to sampling. During purging of the final gallon, temperature, conductivity, pH, DO, and ORP were monitored and readings taken periodically. Purged water from the monitoring points was collected, taken into the treatment building, dumped into the floor

sump, and subsequently pumped into the equalizer tank to discharge to the Outfall 001 pipe leading to the City of Appleton sanitary sewer system.

Groundwater samples were collected for VOCs, dissolved iron, total chromium, manganese, and cyanide in accordance with the site monitoring plan after the monitoring points were purged as described above. Final temperature, conductivity (specific conductance), pH, dissolved oxygen, and oxidation/reduction potential were recorded just prior to sampling (see Table 4 – Groundwater Geochemical Parameters, Appendix B). The groundwater samples were collected in the order of VOC vials first (if applicable) and metal samples second. The chromium (metal) samples, dissolved iron, and manganese samples were field filtered with disposable 45-micron in-line filters. 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, dissolved iron, or manganese were preserved with nitric acid. The samples to be analyzed for total cyanide were preserved with sodium hydroxide. The samples were delivered to Pace Analytical Laboratory (Green Bay) by a Pace courier.

The groundwater elevations, purged groundwater volume, field testing data, and sample collection time for each well were recorded on a Groundwater Sampling Field Sheet (see Groundwater Sampling Field Sheets, Appendix C).

5.2 Groundwater Sampling Results

During the September 2019 sampling event, field measurements were taken on groundwater samples collected from monitoring wells W-2, W-8, W-15, MW-101, MW-103, MW-104, and MW-106 through MW-113 for temperature, conductivity (specific conductance), pH, dissolved oxygen, and oxidation/reduction potential. Observation wells MW-102 and MW-105 were not sampled because they could not be opened. A summary of the final field measurements after stabilization are contained in Table 4 – Groundwater Geochemical Parameters, Appendix B.

Groundwater from observation wells W-2, W-8, W-15, MW-101, MW-103, MW-104, MW-106 through MW-113 was analyzed for (filtered) total (dissolved) chromium, dissolved iron, and manganese. Groundwater from observation wells MW-107 and MW-109 through MW-113 was also analyzed for VOCs and groundwater from observation wells MW-110 through MW-112 was analyzed for total cyanide.

The laboratory analytical results indicated that levels of (filtered) total chromium exceeded the 1992 NR 140, WAC, groundwater PALs² in samples from monitoring wells MW-107 (1,300 µg/L),

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..."

MW-109 (339 µg/L), MW-111 (76.3 µg/L), MW-112 (305 µg/L), and MW-113 (759 µg/L). The laboratory analytical results indicated that cyanide was not detected in any of the monitoring wells. The laboratory analytical results indicated that levels of manganese exceeded the 1992 NR 140, WAC, groundwater PALs³ in samples from monitoring wells W-2 (271 µg/L), MW-104 (244 µg/L), MW-106 (55.2 µg/L), MW-108 (79.9 µg/L), MW-110 (542 µg/L), MW-112 (283 µg/L), and MW-113 (5,010 µg/L) (See Table 5 – Historical Groundwater Analytic Test Results -- Selected Metals, Appendix B, and laboratory report and chain-of-custody record, Appendix C). An isoconcentration map for (filtered) total chromium concentrations is shown on Figure 5 – Groundwater Table Total Chromium Isoconcentration Map - September 2019, Appendix A.

The laboratory analytical results indicate that levels of VOCs (at least one of the following analytes: 1,1-dichloroethene, 1,1,1-trichloroethane, and trichloroethene) exceed the 1992 NR 140, WAC, PALs in samples from monitoring wells MW-107 and MW-109 through MW-113 (see Table 6 – Historical Groundwater Analytic Test Results - Volatile Organic Compounds, Appendix B, and laboratory report and chain-of-custody record, Appendix C).

Groundwater hydrographs were prepared for monitoring wells MW-102, MW-103, MW-104, MW-107, MW-109, and MW-113 and are presented on Figure 3, Appendix A. Chromium concentration trend graphs were prepared for monitoring wells MW-103, MW-104, MW-107, and MW-109 through MW-113 and are presented as Figures 6 through 13, Appendix A. Chlorinated volatile organic compound (CVOC) concentration trend graphs for monitoring wells MW-107, MW-110, and MW-113 are presented as Figures 14 through 16, Appendix A.

6.0 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.

6.1 Monthly Operation and Maintenance Activities

On a monthly basis, either during the monthly sampling event of Outfall 001 or another time, the grounds, truck bay, office area, bathroom, treatment process area, and sample preparation area were inspected. The Inspection Sheet contains a listing of items to be checked during the monthly inspection.

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.

³ “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.

During the monthly sampling, general inspection of the building, grounds, and treatment equipment was conducted. Monthly building and grounds inspections were performed each month from October 2018 through September 2019.

A copy of the monthly inspection sheet was included with the corresponding monthly invoice status report.

6.2 Annual Operation and Maintenance Activities

During this reporting period, annual operation and maintenance activities included the heater inspection (November 2018), backflow preventer inspection (March 2018), and fire extinguisher/emergency light inspection (March 2018).

The heater inspection was performed on November 8, 2019, by Ogden Plumbing & Heating (Ogden). No issues were identified. The backflow preventer inspection was performed by Ogden on March 26, 2019. No violations were found. Ogden filed the inspection report on March 26, 2019. The fire extinguisher/emergency light inspection was performed by Ahern on March 26, 2019. There were no issues identified.

6.3 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 has taken over grounds maintenance at the N.W. Mauthe site through an intergovernmental agreement between the City of Appleton and WDNR. City staff provided lawn maintenance.
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.
4. Terracon met City of Appleton personnel at the site on April 18 and September 18, 2019, to collect their semi-annual effluent compliance sample.

6.4 Significant Operation and Maintenance Activities

The residence at 801 South Outagamie Street had reported ongoing issues with water seeping into the basement since Spring 2017. Water seeped into the basement mainly from the west side, flowed across the floor and accumulated in the sump pit. According to available records, the sump discharge line was supposed to be connected to the groundwater collection trench to the east but details of that connection were not known. The water flowing into the sump pit did not drain from the sump pit as it was designed. Because the drain tile at the residence was connected to the groundwater collection trench, WDNR took the responsibility to determine if the connection to the system was a source of the problem. After attempts to video the drain tile and connection to the groundwater collection trench failed to identify a specific problem or exactly how the drain tile was connected to the groundwater collection trench, WDNR decided to excavate and install a new hard polyvinyl chloride (PVC) gravity discharge line connected directly to the Manhole 2 sump pit in the northeast corner of the property.

Excavation began on November 12, 2018, at the southeast corner of the house to expose the existing foundation drain tile and to determine how to connect the new gravity drain piping to the foundation drain tile. However, as excavation proceeded, a hard PVC lateral pipe was discovered that was connected into the foundation drain and that led eastward toward the groundwater collection trench.

The lateral was south of the foundation corner and approximately 1.5 feet deeper than the foundation drain. A camera was used to verify the that the lateral pipe was connected to foundation drain and that there were roots and an obstruction in the lateral to the east. After verifying that the lateral



was connected to the foundation drain, it was decided to cut the lateral and connect the new hard PVC gravity discharge line into the lateral near where it connected to the foundation drain. The vertical discharge line cleanout requested by the City of Appleton Plumbing Inspector was placed at the connection point. The lateral piping was excavated and exposed to the east until backfill in the groundwater collection trench was encountered. A backflow preventer check valve was found to be inline but was not functioning properly due to tree roots and sediment. At the groundwater collection trench the lateral pipe had a 90 degree elbow downward but the elbow was open-ended and not connected into the groundwater collection trench piping. The elbow was clogged with tree roots, organic matter, and sediment. The old



lateral piping was removed and the new lateral was laid in the same location until turning north toward Manhole 2.

The new discharge line was laid towards the north and then east to connect to Manhole 2. Sand fill from the central groundwater collection trench (going westward from Manhole 2) was encountered as trenching approached Manhole 2. Because the piping was deeper than originally anticipated and because of the sand fill encountered near Manhole 2, a trench box had to be used for safety purposes but was not originally planned as encountering that quantity of sand backfill was another unforeseen circumstance.

The connection to Manhole 2 was made at approximately 9 feet below grade where a hole was cored through the Manhole 2 sidewall. Typically, the walls of concrete rings used in the construction of Manhole 2 are approximately 4 to 6-inches thick; however, the concrete wall of Manhole 2 proved to be approximately 27-inches thick.

The connection to Manhole 2 was completed on November 16, 2018. Upon consultation with the WDNR, Jennifer Borski determined that the sand backfill from the central groundwater trench needed to be replaced with similar material wrapped in a water-permeable geotextile fabric as backfilling proceeded. This was not originally planned. Backfilling the pit near Manhole 2 with sand was completed on November 16, 2018.



Ogden returned to the site on Monday November 19, 2018, to clean up and restore the site to a condition that it could be left for the winter. Ogden also placed 10-foot extensions on the southeast and west roof drains that direct the runoff out into the lawn 10 feet from the house and plugged the sump pit discharge line in the basement. The sump pit discharge was plugged with hydraulic cement.

Ogden returned to the site on Monday November 19, 2018, to clean up and restore the site to a condition that it could be left for the winter. Ogden also placed 10-foot extensions on the southeast and west roof drains that direct the runoff out into the lawn 10 feet from the house and plugged the sump pit discharge line in the basement. The sump pit discharge was plugged with hydraulic cement.

Because more soil was generated during the excavation than was anticipated due to deeper excavation, replacement of soil beneath the driveway with gravel to minimize settling, and no room to manage the additional soil onsite, several truckloads of soil were hauled offsite to the excavator contractor (Kavanaugh Excavating) facility located at N3335 County Road J, Freedom, WI. The soil pile was managed as if contaminated and was covered with plastic. Because the soil was potentially contaminated, characterization samples were collected and analyzed for both total chromium and hex chromium. Terracon visited the site to inspect and potentially sample the soil stockpile initially on November 27, 2018. The soil stockpile was found to be approximately 75 feet long by 15 feet wide by an estimated average height of 5.5 feet (or roughly 115 cubic yards/7 truckloads) and was securely covered with anchored plastic. However, because of cold weather the soil was solidly frozen and could not be sampled.



Terracon returned on November 30, 2018, when it was above freezing to attempt sampling again. At that time with the assistance of Kavanaugh Excavating and a backhoe, the soil stockpile was

uncovered and inspected. Inspection indicated that due to the initial excavation and management at 801 South Outagamie; subsequent loading, hauling, and dumping at N3335 County Road J, and moving the soil around at that location, the soil was well mixed and specific areas of sand or topsoil could not be distinguished. As such, eight test pits were dug along the top of the soil stockpile and composite samples were collected from each test pit (stockpile #1 through stockpile #8). The soil pile was re-covered with plastic and secured.

The composite soil samples were submitted to Pace Analytical laboratory in Green Bay, Wisconsin, for analysis of total chromium and hexavalent chromium. The results indicated no detect of hexavalent chromium in each of the samples. Total chromium ranged from 16.5 to 26.5 milligrams per kilogram.

Ogden returned to the site in June 2019 after the ground thawed and sufficiently warmed to complete site restoration including adding additional fill in areas where subsidence occurred, placing topsoil, reseeding disturbed areas of lawn and adjacent terrace at 801 South Outagamie Street, and replacing the concrete sidewalk and driveway where necessary.

6.5 Emergency Operations and Shut Downs

While onsite for the COA compliance sampling on July 22, 2019, Terracon observed that the pumps had not run in 57 hours. Although the pump light was lit, there was no power to other parts of the control panel. The audible alarm was sounding. Terracon checked breakers and panel but found no immediate problem. The water level in man hole #2 was approximately 25 feet bgs, which was well below the foundation drain tile elevation of the residences connected to the recovery trench and so was not an urgent problem.

On July 23, 2019, Terracon met Suburban Electric onsite to further investigate the pumps. It was found that the pumps did not malfunction. When the power went out, the battery backup kicked in. The power was out for so long that the backup battery went dead. When the power came back on it did not automatically go back to auto power. After unplugging the battery, the system kicked in and pumps were running in auto mode.

Terracon returned to the site later that day and confirmed that the system was running correctly. Terracon also replaced the system backup battery.

Due to these circumstances and the fact that the programmable logic controller is obsolete such that parts will soon no longer be available, WDNR engaged Suburban Electric to develop options for replacing the control system with a more efficient modern system.

7.0 FACILITY MEETINGS/REVIEWS

Jennifer Borski, WDNR project manager, has periodically communicated with the City of Appleton's Parks & Recreation Department to confirm the Cooperative Agreement conditions are being followed and the arrangement is still satisfactory to both parties. The existing Cooperative Agreement was renewed on May 4, 2017, and expires on May 4, 2022.

The City of Appleton Fire Department performed their annual inspection of the facility on May 6, 2019. No issues were noted.

On July 12, 2018, Brian Kreski, City of Appleton Department of Utilities Program Environmental Programs Coordinator, met Terracon at the site to discuss operations and perform the annual inspection of the facility. No issues were noted.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the laboratory analysis from the September 2019 sampling event indicate that the groundwater continues to exceed the 1992 NR 140, WAC, PALs for chromium and several VOCs, although in general, concentrations have decreased compared to September 2018.

The containment trenches appear to be, in general, operating as designed, but as they have exceeded their design life, they appear to be less efficient at collecting and transmitting groundwater to the sumps than in the past. The groundwater laboratory analysis and the groundwater elevations indicate that the groundwater plume is, in general, being controlled horizontally by the groundwater containment trenches.

Approximately 1,054,354 gallons of groundwater were extracted from the containment trenches from October 1, 2018, through September 30, 2019 (average 2,889 gallons per day). The groundwater was discharged to the City of Appleton sanitary sewer system under the Industrial User (Wastewater Discharge) Permit Number 18-21. There were no exceedances of the compliance limits during this reporting period.

Approximately 3.165 pounds of chromium were removed by the system during this reporting period.

Based on the laboratory analysis from the September 2019 annual groundwater sampling event and the laboratory analysis from the Outfall 001 during the reporting period, Terracon recommends continued operation of the groundwater extraction system with direct discharge to the City of Appleton sanitary sewer system.

During the annual groundwater monitoring event in September 2019, observation wells MW-102 and MW-105 were found to be damaged and could not be accessed. For both wells, a bolt on the lid of the flushmount protective cover was bent and could not be removed and the flushmount cover was damaged. Observation well MW-102 may have been damaged during the excavation activities in November 2018 at 801 South Outagamie Street whereas MW-105 may have been damaged by a snow plow. Terracon recommends both wells be repaired in Spring 2020, which likely would require replacing the entire flushmount cover.

Terracon further recommends that WDNR continue to work with Suburban Electric to replace the current system controls with a more modern system that is accessible remotely and more efficient.

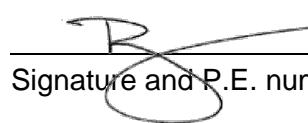
9.0 GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from the system operation and maintenance activities and laboratory chemical analyses at the indicated locations or from other information discussed in this report. This report does not reflect variations in subsurface stratigraphy, hydrogeology, and contaminant distribution that may occur across the site. Actual subsurface conditions may vary and may not become evident without further assessment.

This report was prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental engineering practices. No warranties, express or implied are intended or made. In the event any changes in the nature or location of suspected sources of contamination as outlined in this report are observed, the conclusions and recommendations contained in this report shall not be valid unless these changes are reviewed and the opinions of this report are modified or verified in writing by Terracon.

10.0 CERTIFICATIONS

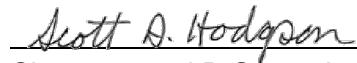
I, Blaine R. Schroyer, P.E., hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. 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.

 E-31505
Signature and P.E. number

Project Engineer
Title



I, Scott A. Hodgson, P.G., hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, 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.

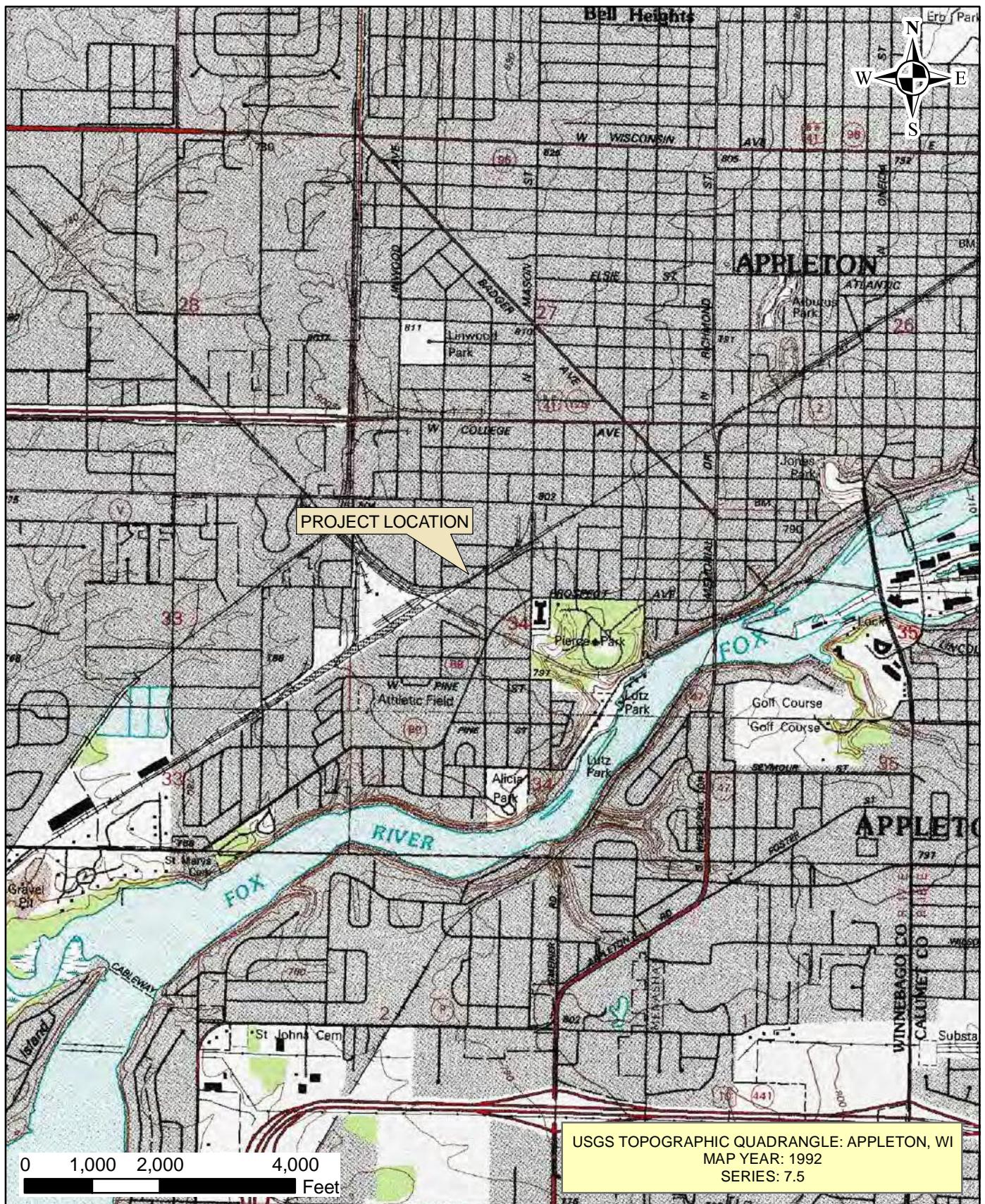
 PG-1229
Signature and P.G. number

Date 11/12/2019

Project Geologist
Title

Appendix A

Figures 1 to 16



| | |
|---------------|------------|
| Project Mngr: | PAL |
| Drawn By: | LES |
| Checked By: | PAL |
| Project No: | 58117057 |
| Date: | 03/21/2012 |

Terracon
Consulting Engineers & Scientists
9856 South 57th Street Franklin, WI 53132
(414) 423 0255 (414) 423 0566

SITE LOCATION MAP
N.W. MAUTHE SITE
725 SOUTH OUTAGAMIE STREET
APPLETON WISCONSIN

FIGURE
1

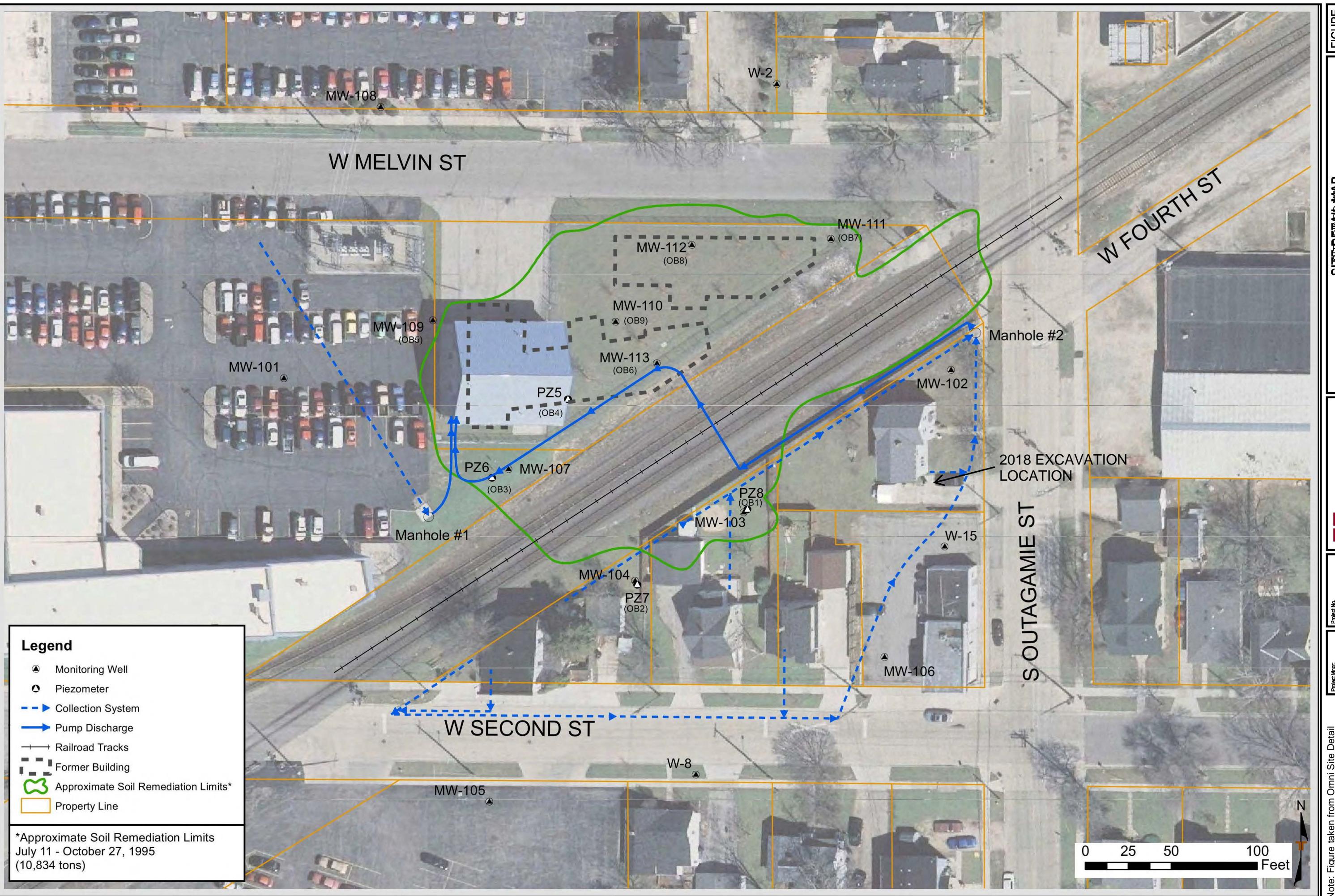


FIGURE 2

SITE DETAILED MAP

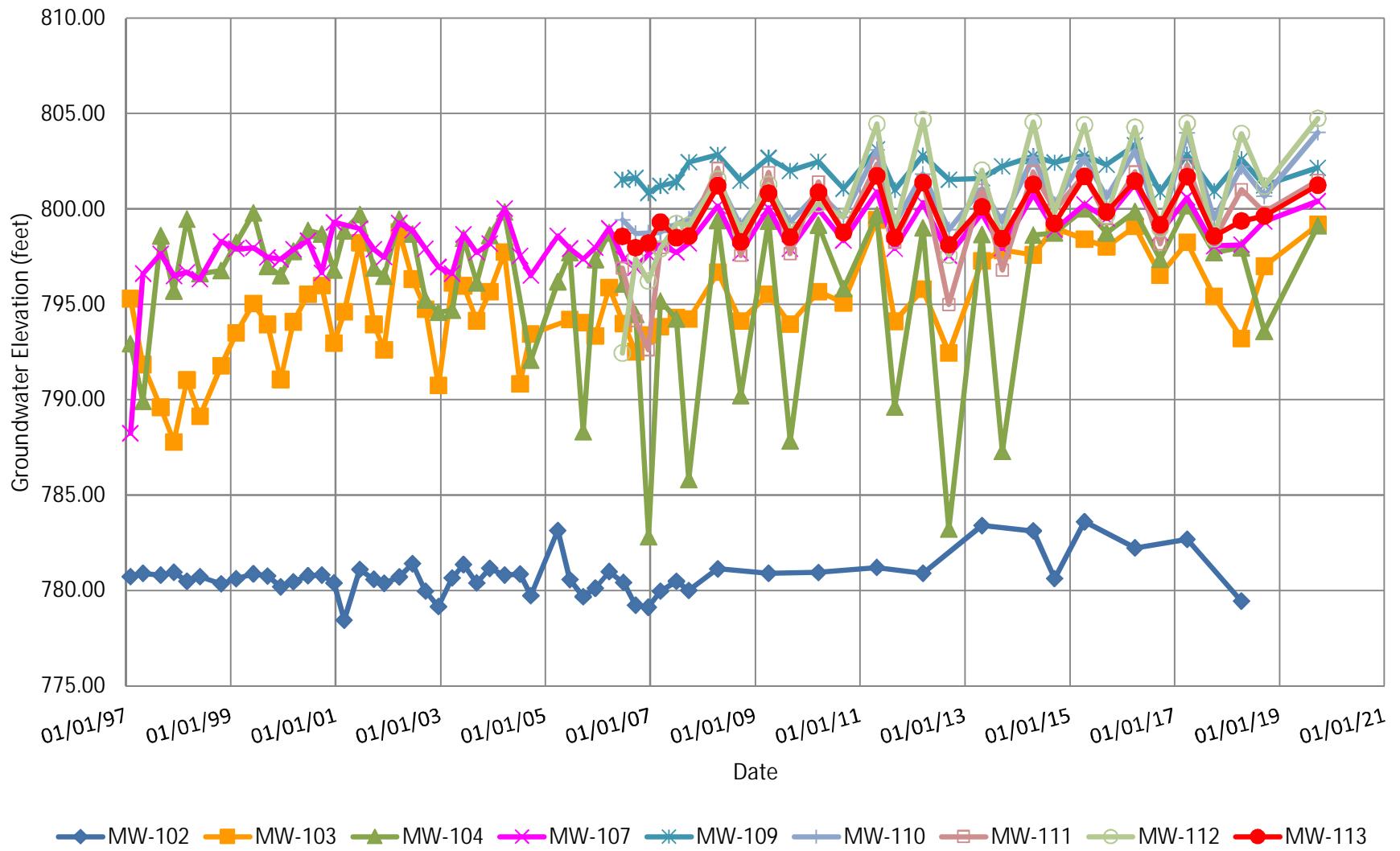
N.W. MAUTHE SITE
725 SOUTH OUTAGAMIE STREET
APPLETON

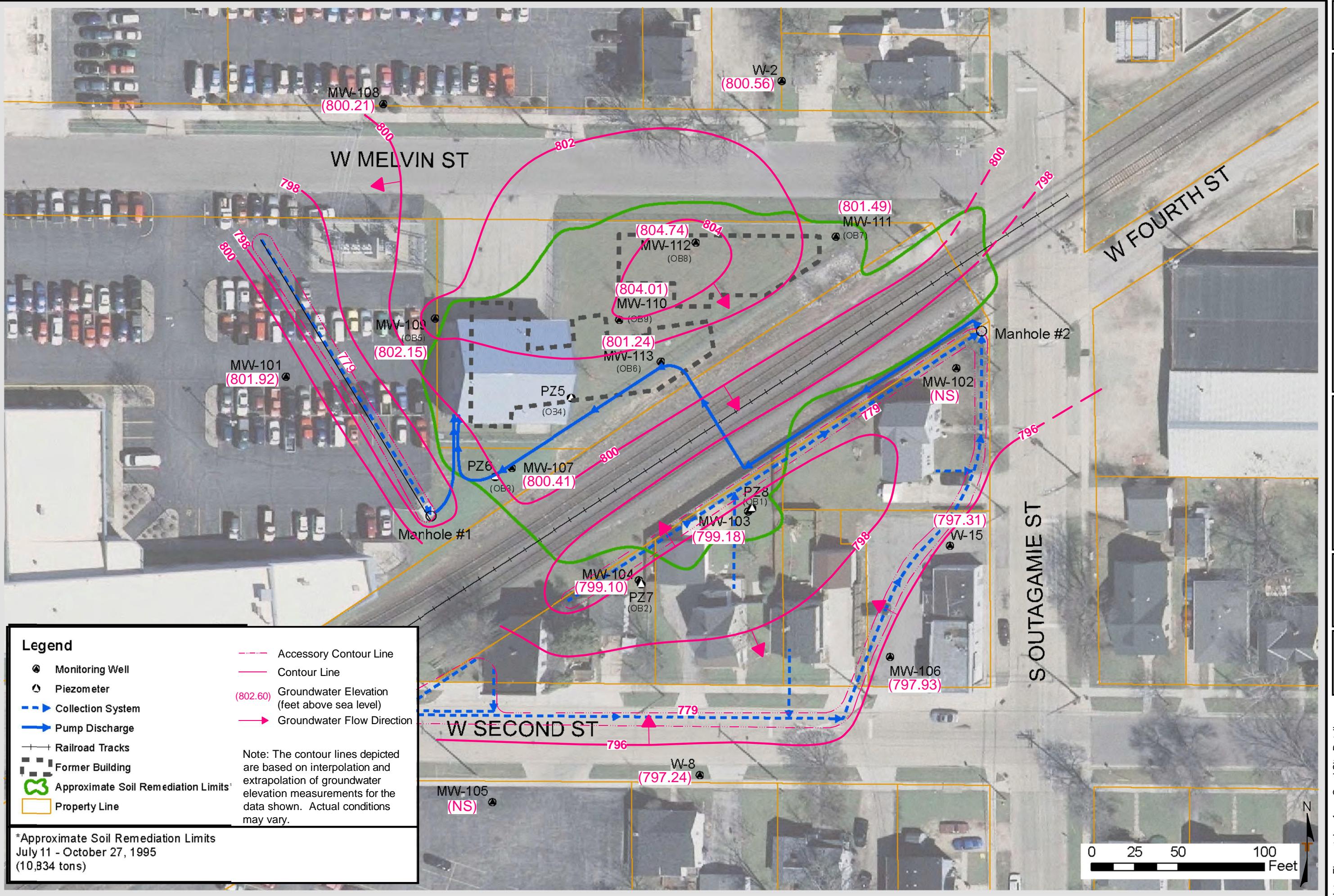
Terracon
Consulting Engineers and Scientists
985 South 77th Street
Franklin, WI 53132
FAX (414) 423-0255
PH. (414) 423-0255
03/20/2012

| | |
|-----------------------|---------------------------------------|
| Project No.: 58117057 | PAL |
| Scale: | As Shown |
| Drawn By: | LES |
| Checked By: | File No. 58117057 MW Location Map.dwg |
| Approved By: | Date: 03/20/2012 |

Note: Figure taken from Omni Site Detail Map, January 2011

FIGURE 3
Groundwater Hydrographs
N.W. Mauthe Superfund Site





N.W. MAUTHE SITE
725 SOUTH OUTAGAMIE STREET

Map, January 2011

Consulting Engineers and Scientists
356 South 57th Street
(414) 423-0255
Franklin, WI 53132
FAX (414) 423-0566

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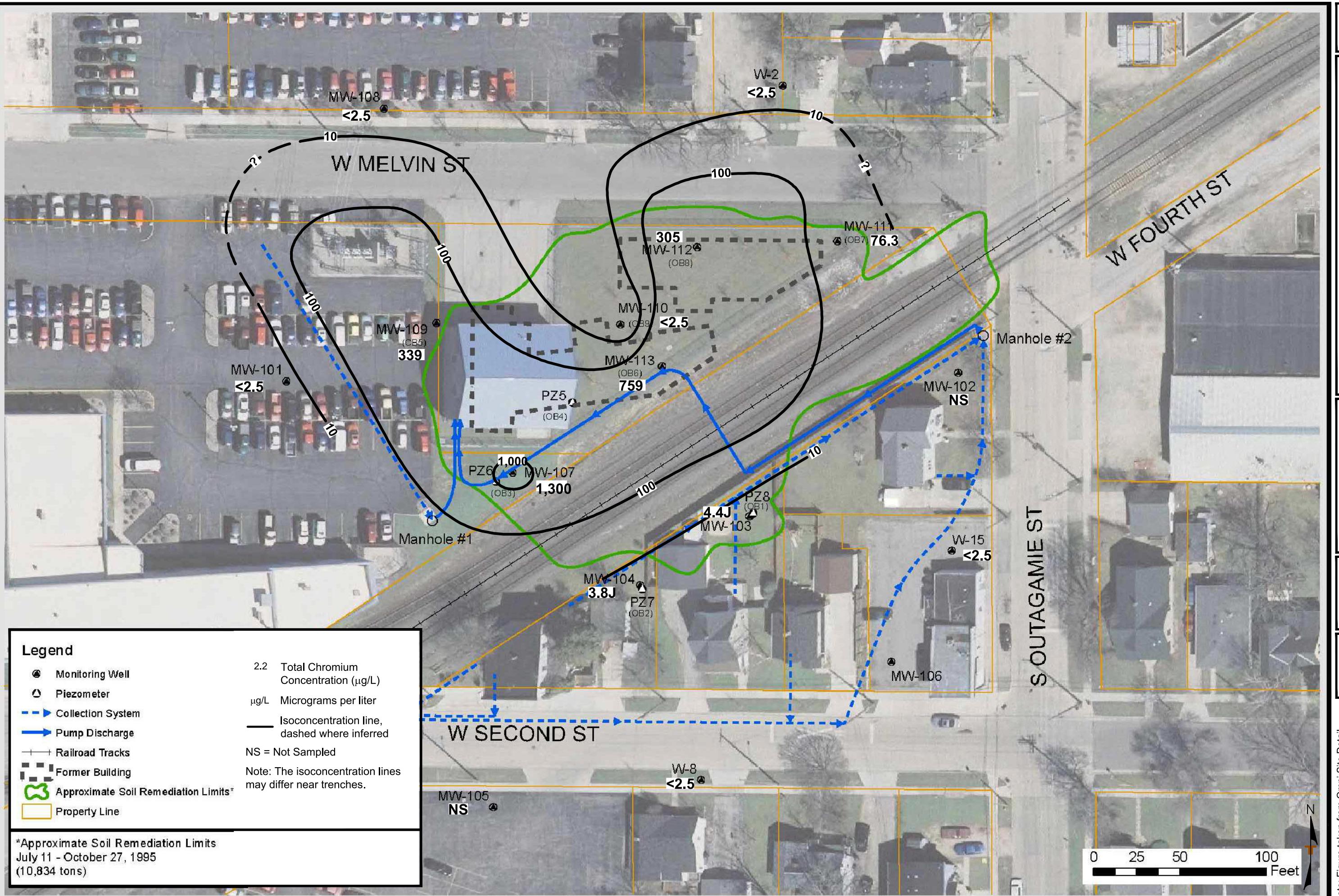


FIGURE 5

GROUNDWATER TOTAL CHROMIUM ISOCONCENTRATION MAP - SEPTEMBER 2019

WISCONSIN

N.W. MAUTHE SITE
725 SOUTH OUTAGAMIE STREET
APPLETON

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Franklin, WI 53132
PH: (414) 423-0255
FAX: (414) 423-5656

| | |
|-------------|--------------|
| Project No. | 58117057 |
| Scale: | As Shown |
| File No. | 58117057C2R2 |
| Date: | 10/2019 |

| | |
|--------------|-----|
| Project Mgr: | SAH |
| Drawn By: | JMN |
| Checked By: | KLK |
| Approved By: | SAH |

Note: Figure taken from Omni Site Detail
Map, January 2011

FIGURE 6
MW-103 Total Chromium Concentration Trends
N.W. Mauthe Superfund Site

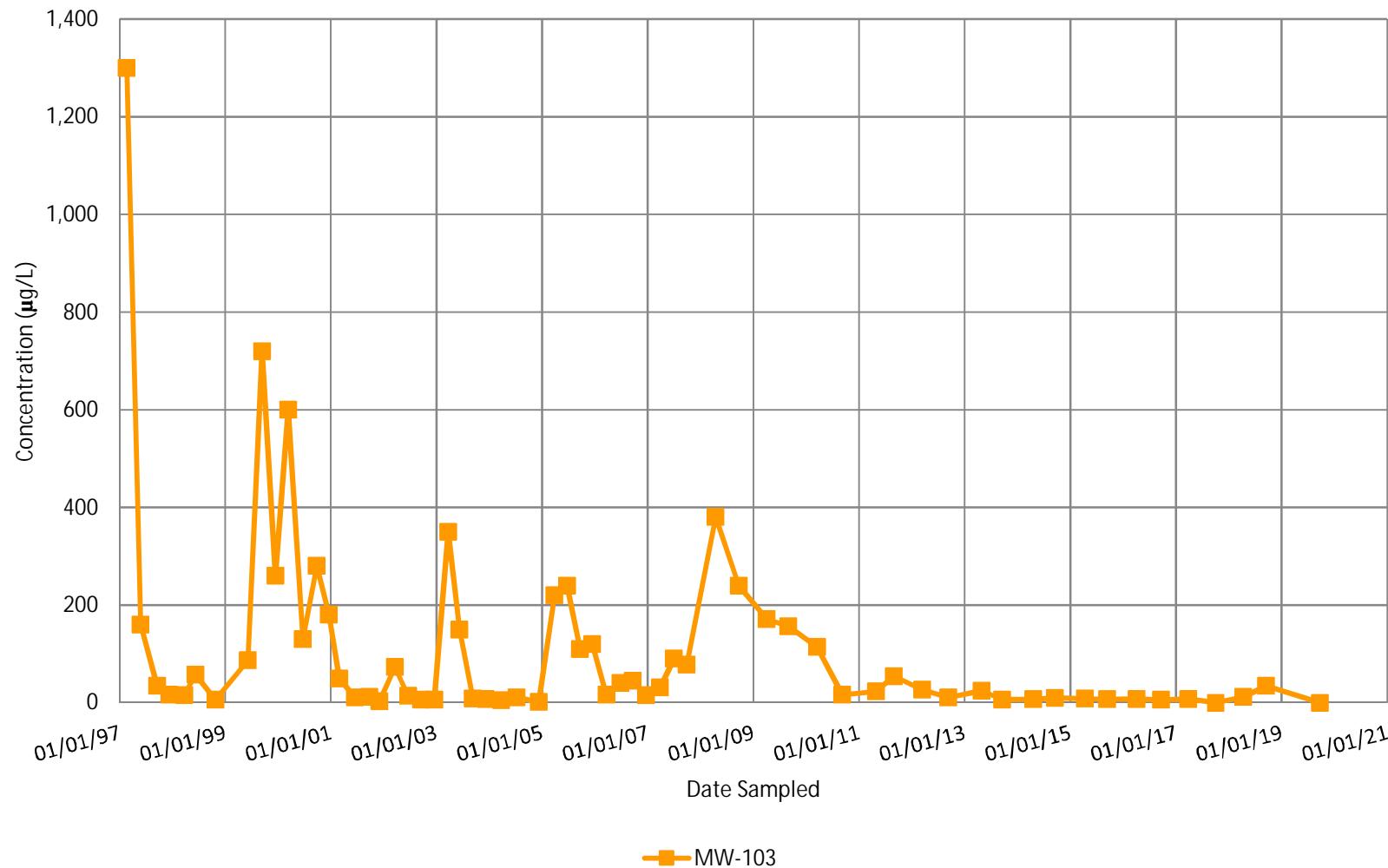


FIGURE 7
MW-104 Total Chromium Concentration Trends
N.W. Mautha Superfund Site

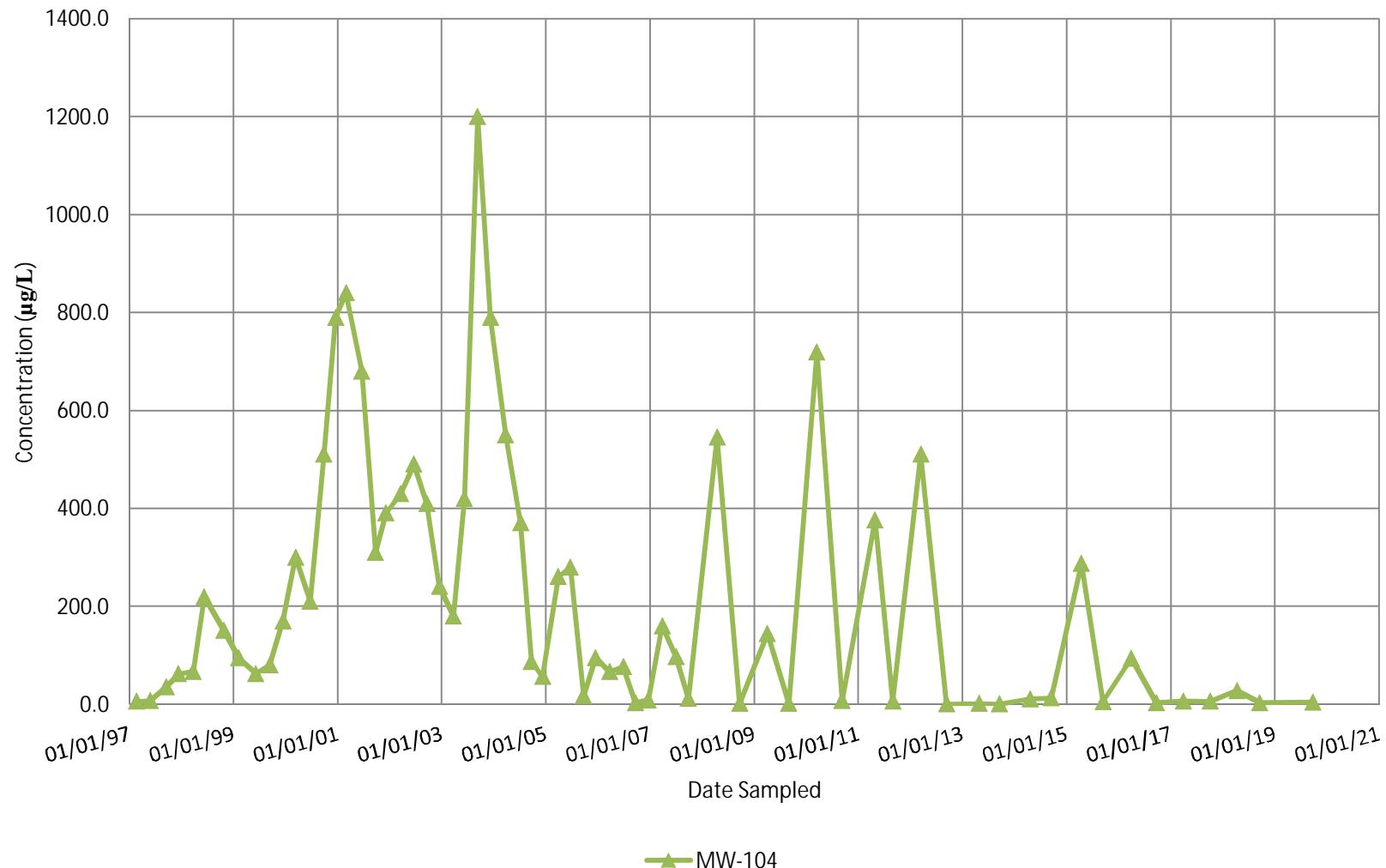


FIGURE 8
MW-107 Total Chromium Concentration Trends
N.W. Mautha Superfund Site

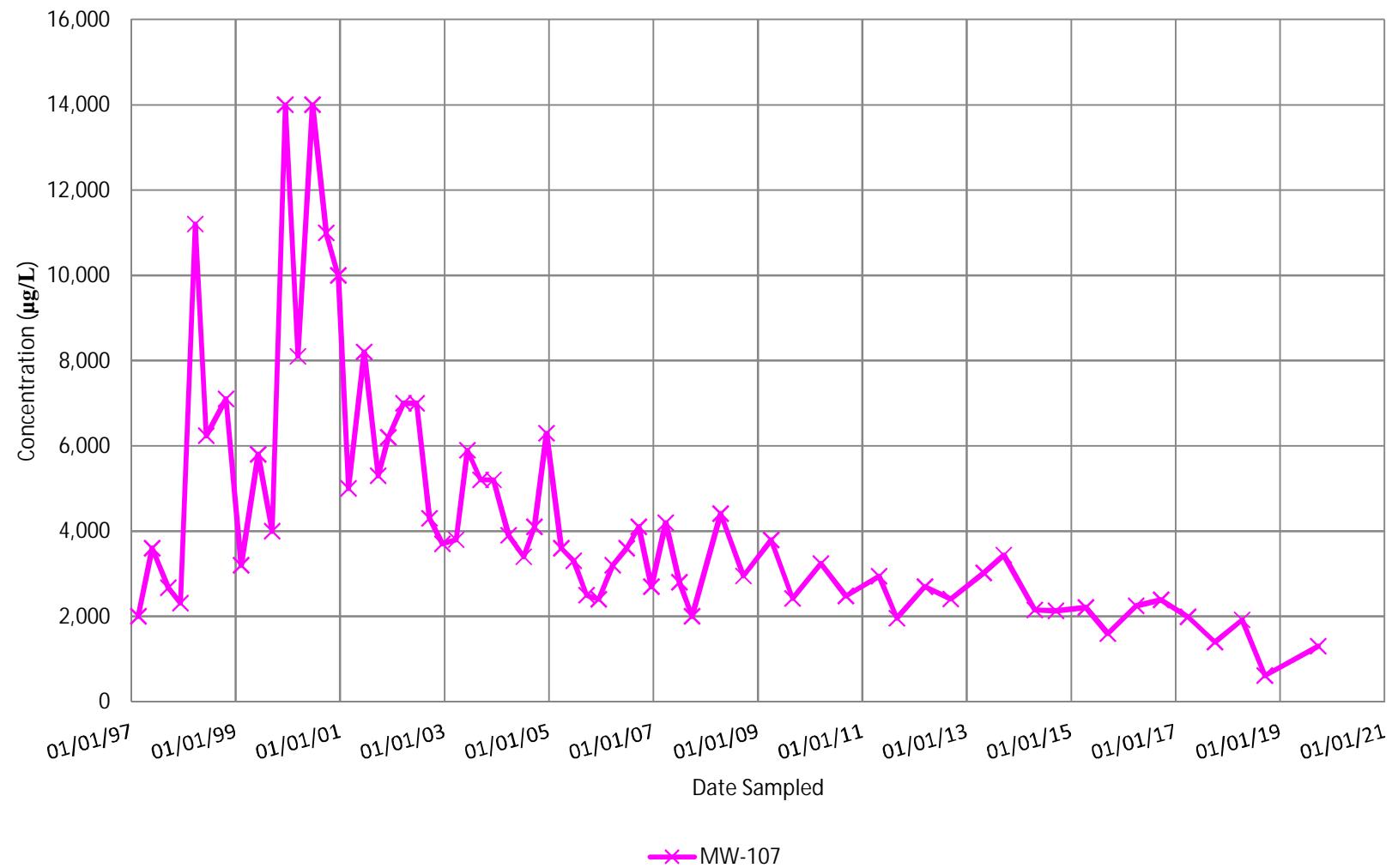


FIGURE 9
MW-109 Total Chromium Concentration Trends
N.W. Mautha Superfund Site

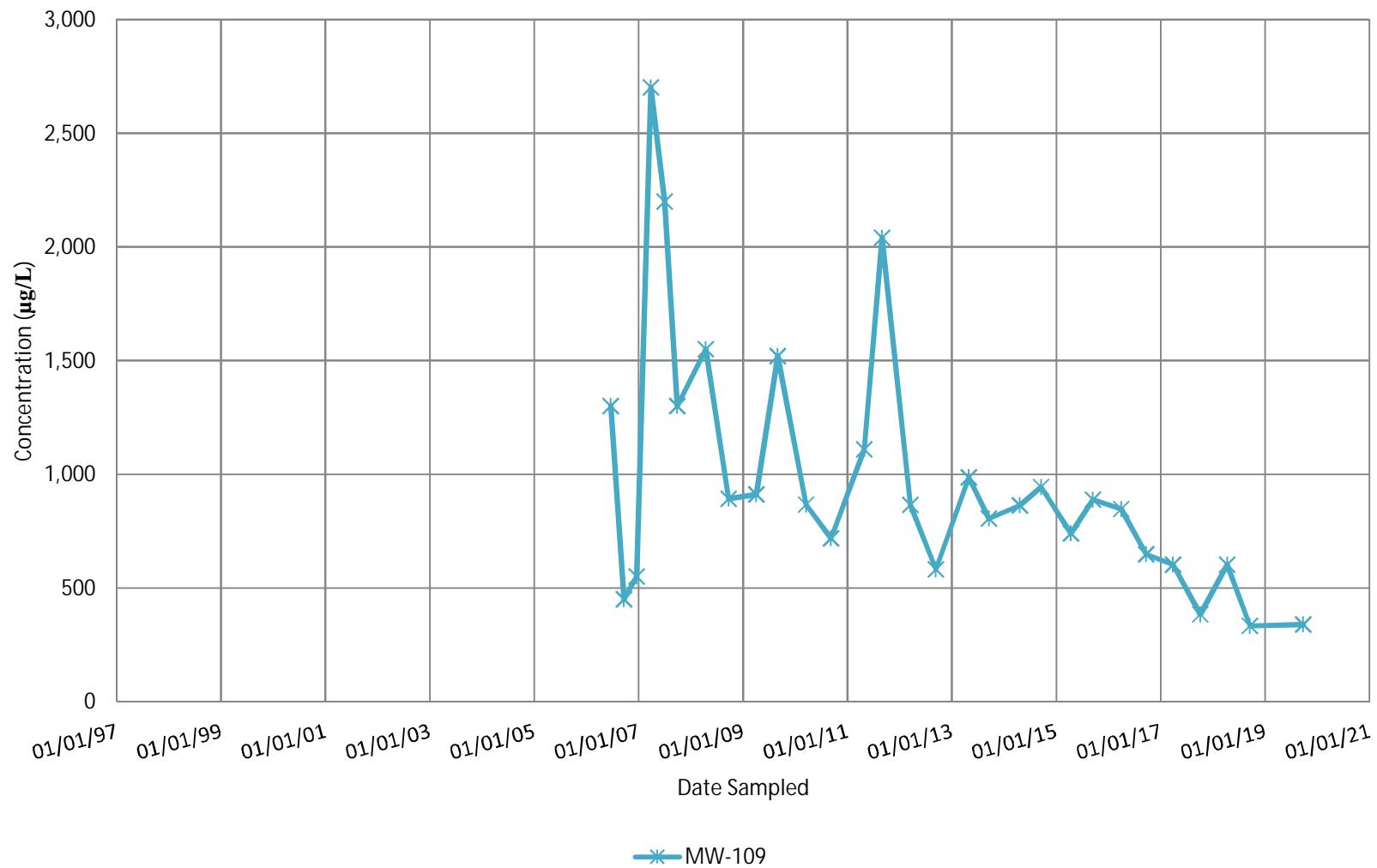


FIGURE 10
MW-110 Total Chromium Concentration Trends
N.W. Mautha Superfund Site

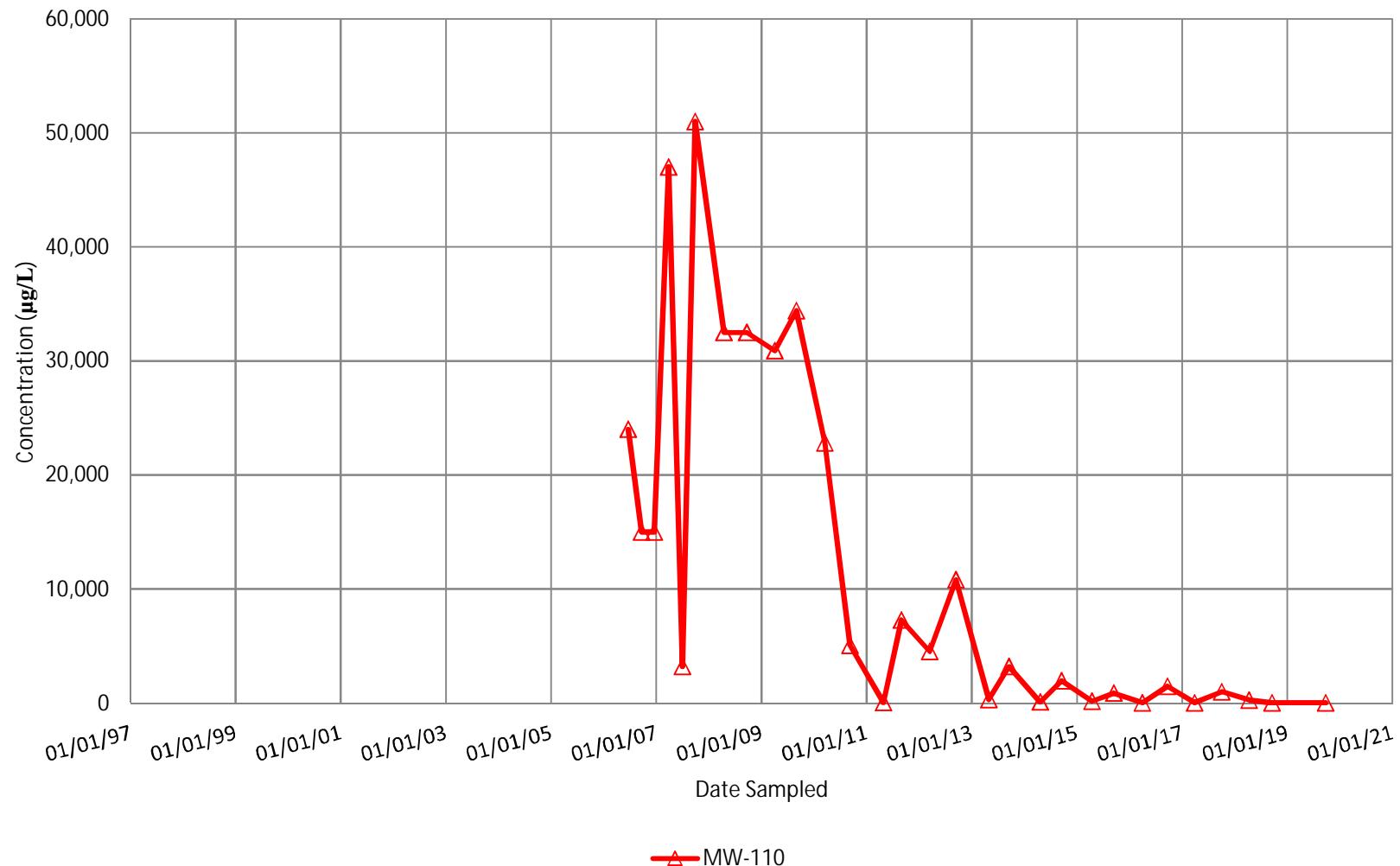


FIGURE 11
MW-111 Total Chromium Concentration Trends
N.W. Mauthe Superfund Site

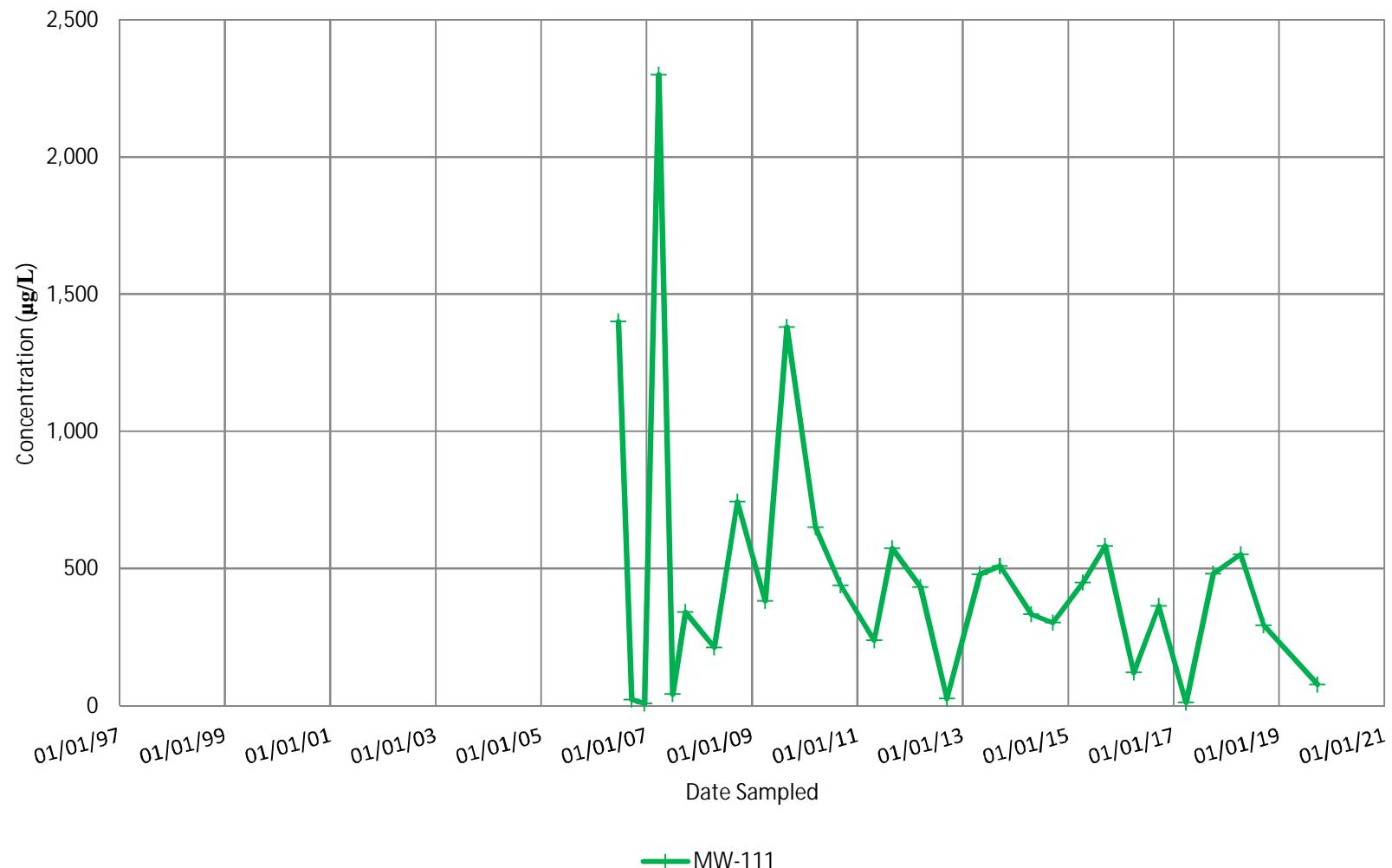


FIGURE 12
MW-112 Total Chromium Concentration Trends
N.W. Mautha Superfund Site

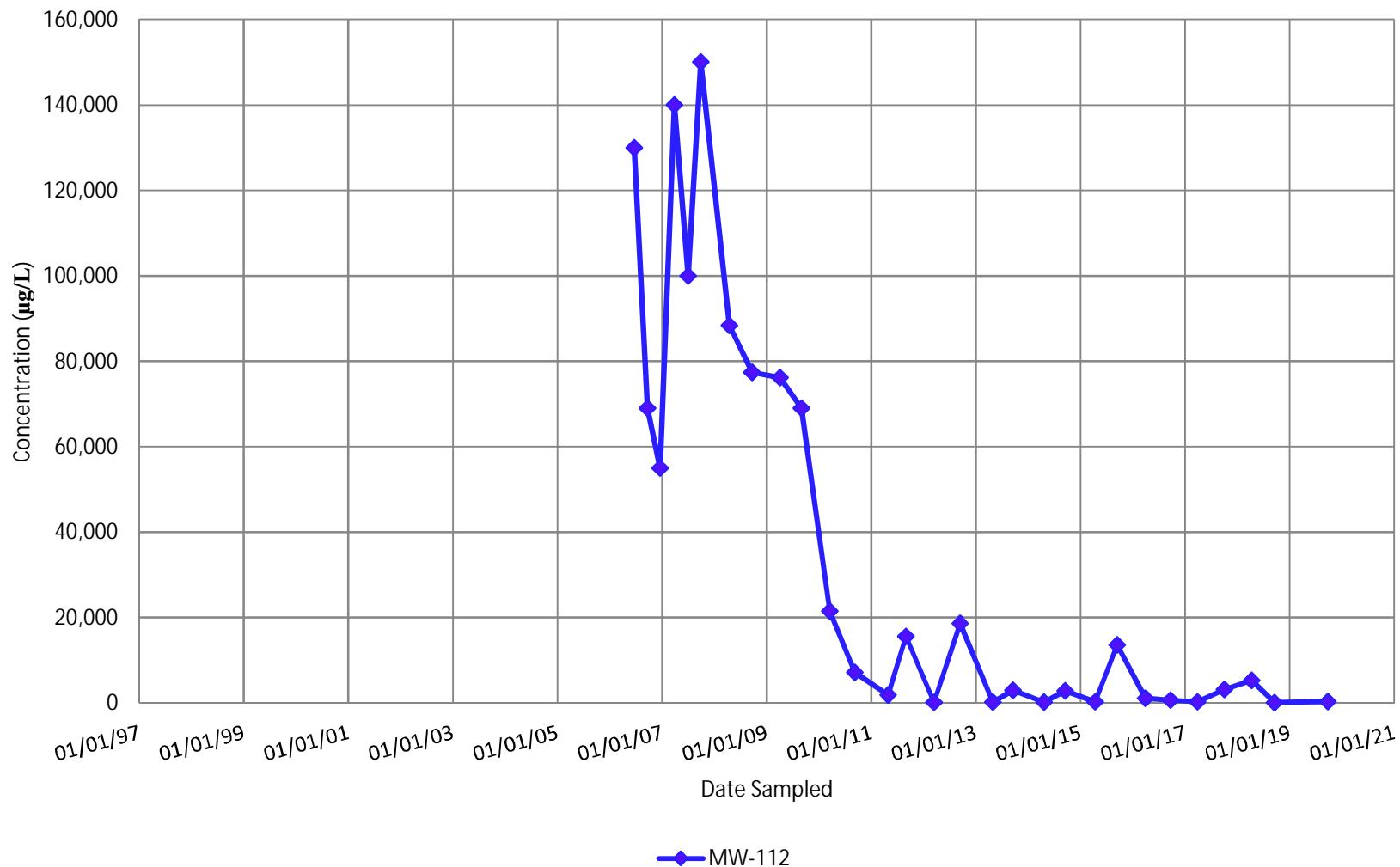


FIGURE 13
MW-113 Total Chromium Concentration Trends
N.W. Mauthe Superfund Site

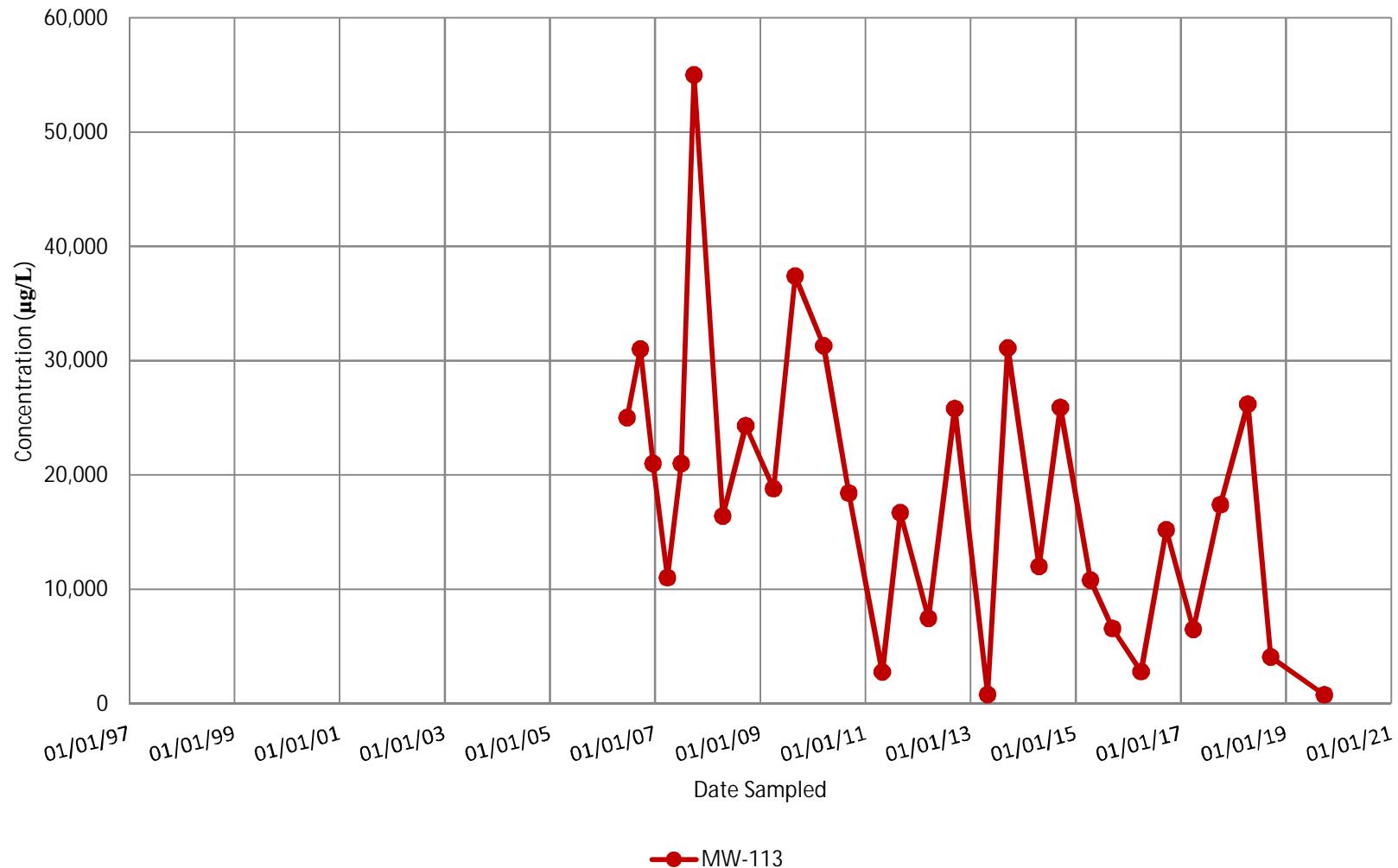


FIGURE 14
MW-107 CVOC Concentration Trends
N.W. Mauthe Superfund Site

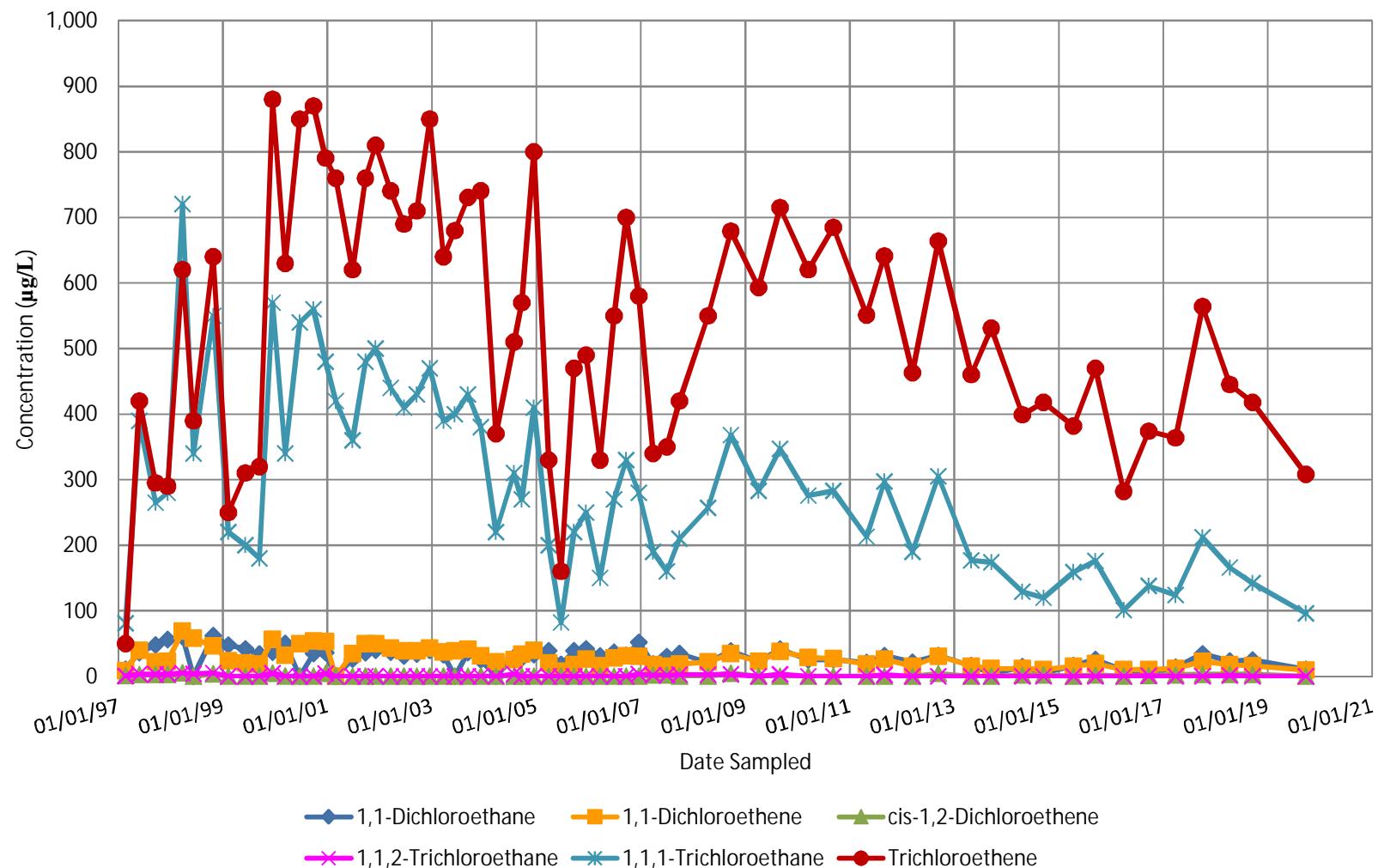


FIGURE 15
MW-110 CVOC Concentration Trends
N.W. Mautha Superfund Site

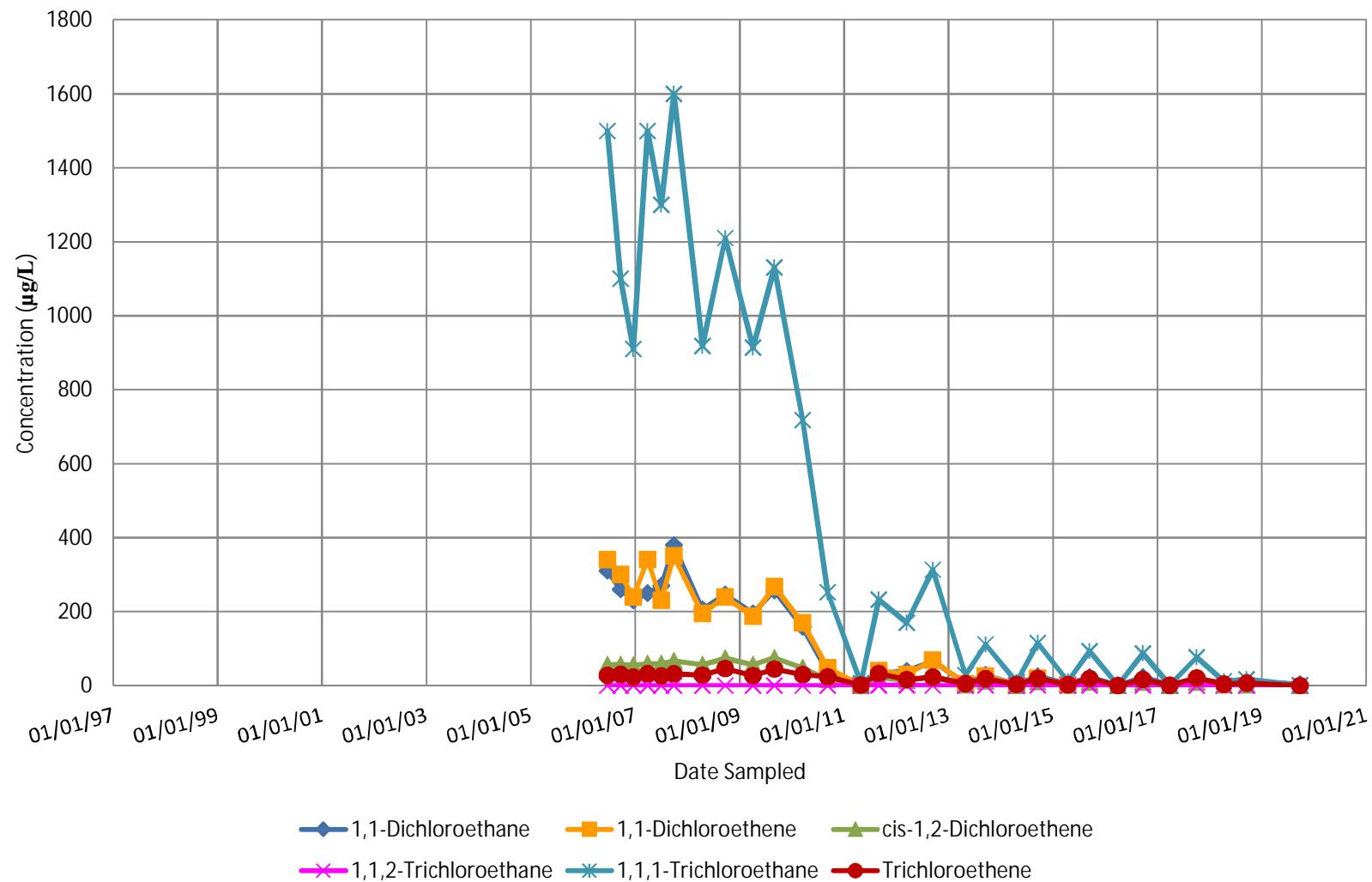
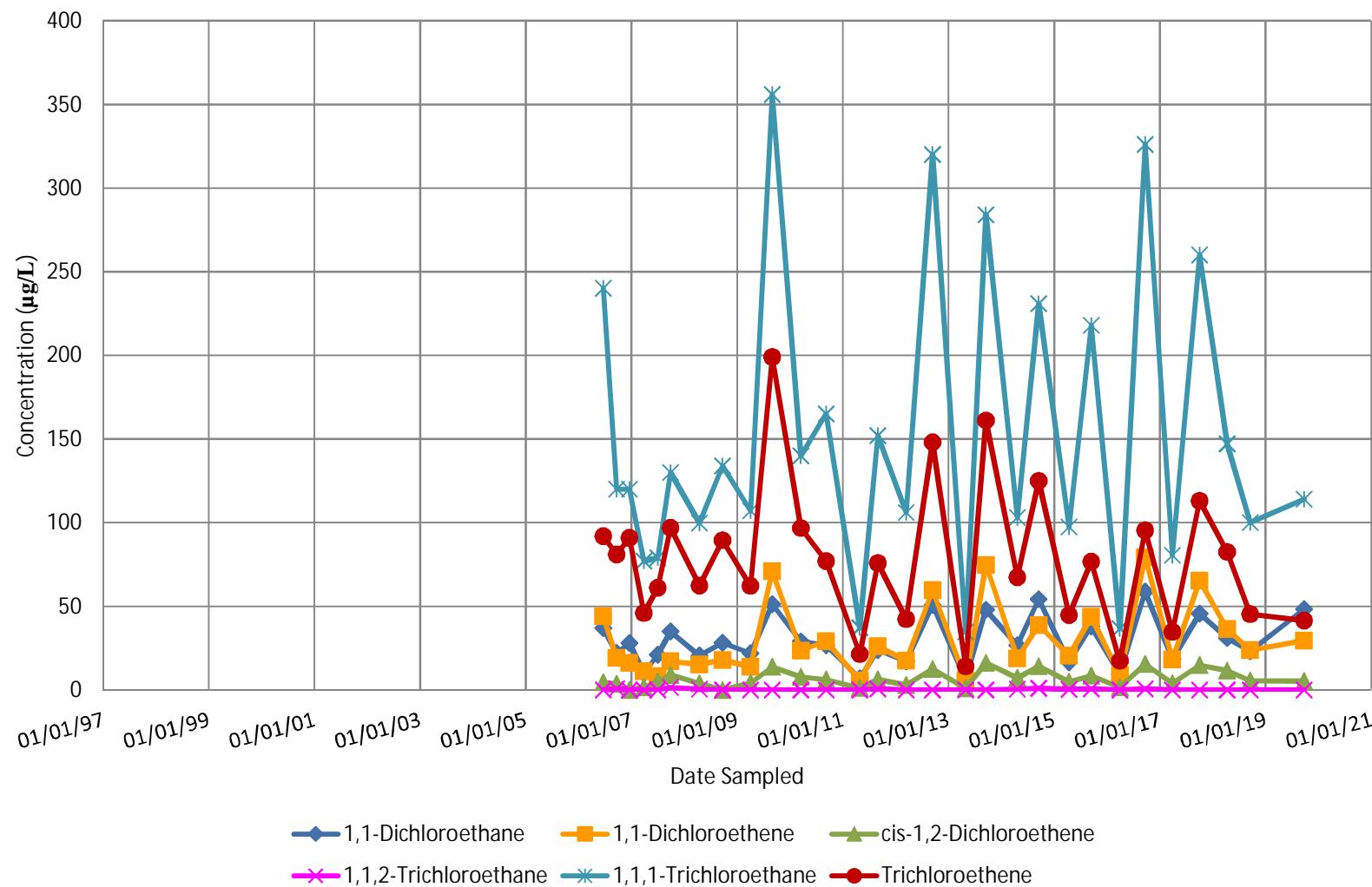


FIGURE 16
MW-113 CVOC Concentration Trends
N.W. Mauthe Superfund Site



Appendix B

Tables 1 to 6

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|------|--|-------------------------------------|------|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| 09/25/07 | | 8,290,363 | | | | | | | | | | | |
| | 10/01/07 | 8,300,685 | | | | | | | | | | | |
| 10/01/07 | | 8,301,251 | 10,888 | | | | | | | | | | |
| 10/02/07 | | 8,301,251 | 0 | | 7.7 | | | | | | | | |
| 10/15/07 | | 8,324,675 | 23,424 | | | | | | | | | | |
| 10/16/07 | | 8,324,675 | 0 | | 7.4 | 1.700 | | | 6.93 | 3.9 | | 7.30 | 0.60 |
| 10/22/07 | | 8,355,957 | 31,282 | | | | | | | | | | |
| 10/23/07 | | 8,355,957 | 0 | | 7.5 | 1.500 | | | 7.04 | 3.75 | NA | NA | |
| 10/29/07 | | 8,370,413 | 14,456 | October | | | | | | | | | |
| 10/30/07 | | 8,370,413 | 0 | 71,891 | 7.4 | 1.900 | | | NA | NA | NA | NA | |
| | 11/01/07 | 8,372,575 | | | | | | | | | | | |
| 11/05/07 | | 8,377,912 | 7,499 | | | | | | | | | | |
| 11/06/07 | | 8,377,912 | 0 | November | 8.3 | 1.900 | 1.300 | | 7.8 | 4.30 | | 8.2 | 0.18 |
| 11/16/07 | | 8,386,583 | 8,671 | 21,587 | | | | | | | | | |
| | 12/01/07 | 8,394,162 | | | | | | | | | | | |
| 12/03/07 | | 8,395,372 | 8,789 | | | | | | | | | | |
| 12/04/07 | | 8,395,372 | 0 | | 8.6 | 3.100 | 2.500 | | 8.4 | 4.60 | | 8.6 | 0.16 |
| 12/12/07 | | 8,399,522 | 4,150 | December | | | | | | | | | |
| 12/21/07 | | 8,402,508 | 2,986 | 25,977 | | | | | | | | | |
| | 01/01/08 | 8,420,139 | | | | | | | | | | | |
| 01/01/08 | | 8,420,868 | 18,360 | | | | | | | | | | |
| 01/02/08 | | 8,420,868 | 0 | | 8.7 | 1.300 | 1.200 | | 8.4 | 4.50 | | 8.7 | 0.62 |
| 01/02/08 | | 8,421,628 | 760 | | | | | | | | | | |
| 01/10/08 | | 8,459,333 | 37,705 | | | | | | | | | | |
| 01/15/08 | | 8,479,244 | 19,911 | January | | | | | | | | | |
| 01/25/08 | | 8,497,063 | 17,819 | 84,612 | | | | | | | | | |
| | 02/01/08 | 8,504,750 | | | | | | | | | | | |
| 02/01/08 | | 8,505,562 | 8,499 | | | | | | | | | | |
| 02/03/08 | | 8,507,408 | 1,846 | February | | | | | | | | | |
| 02/04/08 | | 8,507,408 | 0 | 22,861 | 8.9 | 1.700 | 1.600 | | 8.7 | 2.60 | | 8.8 | 0.70 |
| | 03/01/08 | 8,527,611 | | | | | | | | | | | |
| 03/02/08 | | 8,528,931 | 21,523 | March | 9.0 | 2.9 | 2.500 | | 8.7 | 3.60 | | 8.8 | 2.50 |
| 03/31/08 | | 8,653,211 | 124,280 | 128,713 | | | | | | | | | |
| | 04/01/08 | 8,656,324 | | | | | | | | | | | |
| 04/01/08 | | 8,657,629 | 4,418 | | 9.0 | 1.6 | 1.530 | | 8.7 | 1.60 | | 8.9 | 1.45 |
| 04/01/08 | | 8,661,298 | 3,669 | | | | | | | | | | |
| 04/04/08 | | 8,682,788 | 21,490 | | | | | | | | | | |
| 04/07/08 | | 8,697,084 | 14,296 | | | | | | | | | | |
| 04/08/08 | | 8,697,084 | 0 | | 9.1 | 0.063 | | | 8.7 | 1.40 | | 8.9 | 0.54 |
| 04/14/08 | | 8,790,128 | 93,044 | | | | | | | | | | |
| 04/15/08 | | 8,790,128 | 0 | | 9.1 | 0.36 | | | 8.7 | 0.90 | | 8.8 | 0.17 |
| 04/15/08 | | 8,797,710 | 7,582 | | | | | Installed | | | Installed | | |
| 04/16/08 | | 8,804,525 | 6,815 | | | | | 1,074 | | | 2,804 | | |
| 04/16/08 | | 8,806,972 | 2,447 | | | | | 1,589 | | | 3,661 | | |
| 04/21/08 | | 8,826,834 | 19,862 | | | | | 5,176 | | | 11,176 | | |
| 04/22/08 | | 8,826,834 | 0 | | 9.1 | 0.87 | | 5,649 | 8.8 | 0.95 | 12,292 | 8.9 | 0.55 |
| 04/28/08 | | 8,860,276 | 33,442 | April | | | | 13,291 | | | 36,802 | | |
| 04/29/08 | | 8,860,276 | 0 | 212,193 | 9.1 | 0.51 | | 14,721 | 8.8 | 0.96 | 40,534 | 9.1 | 0.43 |
| | 05/01/08 | 8,868,577 | | | | | | | | | | | |
| 05/05/08 | | 8,890,994 | 30,718 | | | | | 22,372 | | | 59,203 | | |
| 05/06/08 | | 8,890,994 | 0 | | 9.1 | 0.95 | 0.679 | 22,844 | 8.7 | 1.14 | 60,259 | 8.8 | 0.62 |
| 05/12/08 | | 8,907,573 | 16,579 | | | | | 28,018 | | | 70,853 | | |
| 05/13/08 | | 8,907,573 | 0 | | 9.2 | 0.69 | | 28,487 | 8.8 | 1.00 | 71,555 | 9.0 | 0.34 |
| 05/19/08 | | 8,920,045 | 12,472 | | | | | 32,756 | | | 79,328 | | |
| 05/20/08 | | 8,920,045 | 0 | | 9.1 | 0.74 | | 33,225 | 8.8 | 0.96 | 80,376 | 8.9 | 0.27 |
| 05/26/08 | | 8,929,582 | 9,537 | May | | | | 36,557 | | | 85,277 | | |
| 05/27/08 | | 8,929,582 | 0 | 66,866 | 9.0 | 0.60 | | 37,025 | 8.9 | 1.04 | 85,979 | 8.9 | 0.16 |
| | 06/01/08 | 8,935,384 | | | | | | | | | | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| 06/02/08 | | 8,936,965 | 7,383 | | | | | 39,411 | | | 90,202 | | |
| 06/03/08 | | 8,936,965 | 0 | | 9.3 | 0.90 | 0.824 | 39,876 | 9.0 | 1.06 | 90,901 | 9.0 | 0.54 |
| 06/09/08 | | 8,951,078 | 14,113 | | | | | 43,187 | | | 101,102 | | |
| 06/10/08 | | 8,951,078 | 0 | | 9.2 | 0.85 | | 44,118 | 9.0 | 1.53 | 106,505 | 9.0 | 0.38 |
| 06/11/08 | | 8,960,258 | 9,180 | | | | | 45,176 | | | 112,396 | | |
| 06/16/08 | | 8,999,813 | 39,555 | | | | | 52,865 | | | 140,673 | | |
| 06/16/08 | | 8,999,813 | 0 | | | | | 52,865 | | | 141,398 | | |
| 06/17/08 | | 8,999,813 | 0 | | 9.2 | 1.4 | | 53,808 | 9.1 | 3.40 | 143,560 | 9.1 | 0.33 |
| 06/18/08 | | 9,007,718 | 7,905 | | | | | 54,790 | | | 146,825 | | |
| 06/23/08 | | 9,016,923 | 9,205 | | | | | 57,605 | | | 153,557 | | |
| 06/24/08 | | 9,016,923 | 0 | | 9.3 | 0.20 | | 58,074 | 9.1 | 2.50 | 154,613 | 9.0 | 0.14 |
| 06/30/08 | | 9,026,850 | 9,927 | June | | | | 61,392 | | | 160,227 | | |
| 06/30/08 | | 9,026,850 | 0 | 91,466 | | | | 61,392 | | | 160,573 | | |
| 07/01/08 | | 9,026,850 | | | | | | | | | | | |
| 07/01/08 | | 9,026,850 | 0 | | 9.3 | 1.4 | 1.290 | 61,861 | 9.0 | 2.45 | 161,266 | 9.1 | 0.58 |
| 07/07/08 | | 9,035,952 | 9,102 | | | | | 64,701 | | | 166,481 | | |
| 07/08/08 | | 9,035,952 | 0 | | 9.4 | 1.2 | | 65,168 | 9.1 | 1.90 | 167,518 | 9.2 | 1.05 |
| 07/10/08 | | 9,041,071 | 5,119 | | | | | 66,138 | | | 170,315 | | |
| 07/14/08 | | 9,054,932 | 13,861 | | | | | 68,973 | | | 182,057 | | |
| 07/15/08 | | 9,054,932 | 0 | | 9.4 | 0.82 | | 69,444 | 9.0 | 1.80 | 184,517 | 9.2 | 0.54 |
| 07/21/08 | | 9,083,663 | 28,731 | | | | | 74,198 | | | 206,929 | | |
| 07/22/08 | | 9,083,663 | 0 | | 9.4 | 0.74 | | 75,898 | 9.2 | 2.52 | 211,453 | 9.2 | 0.31 |
| 07/25/08 | | 9,114,297 | 30,634 | | | | | 81,242 | | | 230,374 | | |
| 07/28/08 | | 9,121,075 | 6,778 | | | | | 83,136 | | | 235,668 | | |
| 07/29/08 | | 9,121,075 | 0 | | | 7.4 | 0.70 | 83,609 | 7.2 | 3.30 | 237,073 | 7.2 | 0.30 |
| 07/29/08 | | 9,123,409 | 2,334 | July | | | | 83,646 | | | 237,455 | | |
| 08/01/08 | | 9,127,730 | | 100,880 | | | | | | | | | |
| 08/04/08 | | 9,137,140 | 13,731 | | | | | 87,426 | | | 248,221 | | |
| 08/05/08 | | 9,137,140 | 0 | | 7.6 | 1.30 | 1.260 | 87,426 | 7.2 | 2.72 | 250,342 | 7.2 | 0.41 |
| 08/05/08 | | 9,141,581 | 4,441 | | | | | 87,938 | | | 252,120 | | |
| 08/09/08 | | 9,151,886 | 10,305 | | | | | 90,785 | | | 260,213 | | |
| 08/11/08 | | 9,154,723 | 2,837 | | | | | 91,732 | | | 262,298 | | |
| 08/12/08 | | 9,154,723 | 0 | | 7.5 | 1.2 | | 92,206 | 7.2 | 2.45 | 263,337 | 7.3 | 0.25 |
| 08/13/08 | | 9,157,388 | 2,665 | | | | | 92,710 | | | 264,058 | | |
| 08/18/08 | | 9,162,704 | 5,316 | | | | | 94,604 | | | 267,897 | | |
| 08/19/08 | | 9,162,704 | 0 | | 7.5 | 0.98 | | 95,077 | 7.2 | 2.08 | 268,595 | 7.2 | 0.20 |
| 08/19/08 | | 9,163,932 | 1,228 | | | | | 95,106 | | | 268,623 | | |
| 08/21/08 | | 9,166,109 | 2,177 | | | | | 96,049 | | | 270,020 | | |
| 08/24/08 | | 9,168,274 | 2,165 | | | | | 96,993 | | | 271,417 | | |
| 08/26/08 | | 9,168,274 | 0 | August | 7.5 | 1.1 | | 97,465 | 7.1 | 2.25 | 272,112 | 7.1 | 0.22 |
| 09/01/08 | | 9,173,323 | | 45,593 | | | | | | | | | |
| 09/01/08 | | 9,173,586 | 5,312 | | | | | 99,390 | | | 274,587 | | |
| 09/02/08 | | 9,173,586 | 0 | | 7.6 | 1.4 | 1.290 | 99,863 | 7.3 | 2.50 | 274,936 | 7.3 | 0.21 |
| 09/02/08 | | 9,174,445 | 859 | | | | | 99,894 | | | 274,962 | | |
| 09/06/08 | | 9,176,960 | 2,515 | | | | | 100,837 | | | 276,718 | | |
| 09/08/08 | | 9,176,960 | 0 | | 7.5 | 1.3 | | 101,310 | 7.2 | 2.25 | 277,071 | 7.3 | 0.16 |
| 09/15/08 | | 9,182,218 | 5,258 | | | | | 103,257 | | | 279,911 | | |
| 09/16/08 | | 9,182,218 | 0 | | 7.6 | 1.3 | | 103,731 | 7.3 | 2.60 | 280,611 | 7.6 | 0.37 |
| 09/18/08 | | 9,185,245 | 3,027 | | | | | 104,715 | | | 281,689 | | |
| 09/22/08 | | 9,187,538 | 2,293 | | | | | 105,663 | | | 283,095 | | |
| 09/23/08 | | 9,187,538 | 0 | | 7.5 | 1.6 | | 106,137 | 7.3 | 3.05 | 283,475 | 7.5 | 0.17 |
| 09/28/08 | | 9,191,553 | 4,015 | | | | | 107,560 | | | 285,589 | | |
| 09/30/08 | | 9,191,553 | 0 | September | 7.6 | 1.8 | | 108,035 | 7.4 | 3.70 | 285,942 | 7.4 | 0.18 |
| 10/01/08 | | 9,192,867 | | 19,545 | | | | | | | | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| 10/05/08 | | 9,195,280 | 3,727 | | | | | 109,500 | | | 287,383 | | |
| 10/07/08 | | 9,195,280 | 0 | | 7.7 | 2.2 | 2.000 | 109,975 | 7.4 | 4.38 | 288,093 | 7.8 | 0.12 |
| 10/07/08 | | 9,196,521 | 1,241 | | | | | 110,012 | | | 288,124 | | |
| 10/10/08 | | 9,200,017 | 3,496 | | | | | 110,965 | | | 290,943 | | |
| 10/12/08 | | 9,200,017 | 0 | | | | | 111,919 | | | 291,644 | | |
| 10/14/08 | | 9,200,017 | 0 | | 7.8 | 1.9 | | 112,396 | 7.5 | 3.48 | 292,698 | 7.8 | 0.27 |
| 10/16/08 | | 9,204,404 | 4,387 | | | | | 112,906 | | | 293,436 | | |
| 10/18/08 | | 9,206,201 | 1,797 | | | | | 113,861 | | | 294,504 | | |
| 10/21/08 | | 9,206,201 | 0 | | 7.8 | | | 114,337 | 7.5 | 4.02 | 295,563 | 7.9 | 0.28 |
| 10/22/08 | | 9,208,980 | 2,779 | | | | | 114,848 | | | 296,250 | | |
| 10/26/08 | | 9,211,601 | 2,621 | | | | | 116,279 | | | 297,676 | | |
| 10/28/08 | | 9,211,601 | 0 | October | 7.9 | 2.0 | | 116,756 | 7.7 | 3.96 | 298,743 | 8.2 | 0.26 |
| | 11/01/08 | 9,214,938 | | 22,071 | | | | | | | | | |
| 11/01/08 | | 9,215,379 | 3,778 | | | | | 117,743 | | | 300,201 | | |
| 11/04/08 | | 9,215,379 | 0 | | 8.0 | 2.1 | 1.880 | 118,698 | 7.7 | 4.32 | 301,273 | 8.1 | 0.20 |
| 11/04/08 | | 9,217,467 | 2,088 | | | | | 118,732 | | | 301,305 | | |
| 11/07/08 | | 9,219,330 | 1,863 | | | | | 119,685 | | | 302,376 | | |
| 11/10/08 | | 9,220,422 | 1,092 | | | | | 120,162 | | | 303,090 | | |
| 11/20/08 | | 9,229,031 | 8,609 | | | | | 123,506 | | | 309,112 | | |
| 11/24/08 | | 9,231,935 | 2,904 | | | | | 124,939 | | | 310,833 | | |
| 11/24/08 | | 9,232,260 | 325 | | | | | 124,939 | | | 311,189 | | |
| 11/26/08 | | 9,233,464 | 1,204 | | | | | 125,702 | | | 311,660 | | |
| 11/28/08 | | 9,234,926 | 1,462 | November | | | | 126,192 | | | 312,744 | | |
| | 12/01/08 | 9,234,926 | | 19,988 | | | | | | | | | |
| 12/02/08 | | 9,234,926 | 0 | | 8.2 | 2.3 | 2.190 | 127,656 | 7.8 | 3.57 | 314,118 | 8.3 | 0.18 |
| 12/12/08 | | 9,242,670 | 7,744 | | | | | 130,122 | | | 316,912 | | |
| 12/17/08 | | 9,247,587 | 4,917 | December | | | | 131,563 | | | 320,808 | | |
| | 01/01/09 | 9,266,230 | | 31,304 | | | | | | | | | |
| 01/02/09 | | 9,268,140 | 20,553 | | | | | 136,435 | | | 338,229 | | |
| 01/06/09 | | 9,268,140 | 0 | | 7.8 | 2.5 | 2.430 | 137,894 | 7.7 | 4.48 | 341,351 | 7.8 | 1.05 |
| 01/12/09 | | 9,277,419 | 9,279 | January | | | | 139,384 | | | 344,897 | | |
| | 02/01/09 | 9,287,182 | | 20,952 | | | | | | | | | |
| 02/01/09 | | 9,287,326 | 9,907 | | | | | 143,256 | | | 351,798 | | |
| 02/03/09 | | 9,287,326 | 0 | | 7.8 | 3.3 | 2.900 | 143,738 | 7.9 | 4.69 | 352,143 | 8.2 | 0.34 |
| 02/05/09 | | 9,288,848 | 1,522 | February | | | | 143,772 | | | 352,912 | | |
| | 03/01/09 | 9,334,332 | | 47,151 | | | | | | | | | |
| 03/01/09 | | 9,335,249 | 46,401 | | | | | 153,077 | | | 393,568 | | |
| 03/03/09 | | 9,335,249 | 0 | | 7.6 | 2.4 | 1.970 | 153,561 | 7.9 | 4.24 | 394,973 | 8.2 | 0.87 |
| 03/11/09 | | 9,355,734 | 20,485 | | | | | 156,519 | | | 412,282 | | |
| 03/30/09 | | 9,463,572 | 107,838 | | | | | 182,357 | | | 500,471 | | |
| 03/31/09 | | 9,463,572 | 0 | March | | | | 183,323 | | | 501,935 | | |
| | 04/01/09 | 9,467,680 | | 133,348 | | | | | | | | | |
| 04/01/09 | | 9,469,538 | 5,966 | | | | | 184,290 | | | 504,856 | | |
| 04/03/09 | | 9,478,305 | 8,767 | | | | | 187,194 | | | 511,375 | | |
| 04/06/09 | | 9,485,542 | 7,237 | | | | | 189,607 | | | 516,807 | | |
| 04/07/09 | | 9,485,542 | 0 | | 7.7 | 0.84 | 0.730 | 190,569 | 7.9 | 1.14 | 518,251 | 8.1 | 0.52 |
| 04/13/09 | | 9,498,358 | 12,816 | | | | | 194,432 | | | 525,799 | | |
| 04/14/09 | | 9,498,358 | 0 | | 7.7 | 0.59 | | 194,908 | 8.0 | 1.20 | 525,799 | 8.2 | 0.27 |
| 04/20/09 | | 9,507,740 | 9,382 | | | | | 198,262 | | | 532,295 | | |
| 04/21/09 | | 9,507,740 | 0 | | 7.8 | 1.0 | | 198,262 | 8.0 | 0.96 | 533,364 | 8.3 | 1.74 |
| 04/27/09 | | 9,545,303 | 37,563 | | | | | 208,646 | | | 561,846 | | |
| 04/28/09 | | 9,545,303 | 0 | | 8.0 | 1.2 | | 210,663 | 7.7 | 1.89 | 566,157 | 7.5 | 0.28 |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | | |
|----------|-------------|-------------------------------|-------------------------------------|--|-----------------------------|------|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date Actual | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 05/01/09 | 9,568,209 | | | April | | | | | | | | | |
| 05/01/09 | | 9,574,025 | 28,722 | 100,528 | | | | | 217,567 | | | 582,471 | | |
| 05/04/09 | | 9,582,624 | 8,599 | | | | | | 220,929 | | | 588,270 | | |
| 05/05/09 | | 9,582,624 | 0 | | 7.6 | 0.76 | 0.724 | | 221,884 | 8.0 | 1.29 | 589,714 | 8.0 | 0.33 |
| 05/11/09 | | 9,599,171 | 16,547 | | | | | | 227,170 | | | 599,566 | | |
| 05/12/09 | | 9,599,171 | 0 | | 8.0 | 0.89 | | | 228,124 | 7.6 | 0.84 | 600,996 | 7.9 | 0.24 |
| 05/18/09 | | 9,613,720 | 14,549 | | | | | | 232,921 | | | 609,305 | | |
| 05/19/09 | | 9,613,720 | 0 | | 7.4 | 0.79 | | | 233,874 | 7.0 | 0.84 | 610,378 | 7.2 | 0.38 |
| 05/19/09 | | 9,615,798 | 2,078 | | | | | | 233,908 | | | 610,421 | | |
| 05/19/09 | | 9,616,122 | 324 | | | | | | 233,908 | | | 610,775 | | |
| 05/25/09 | | 9,624,219 | 8,097 | | | | | | 237,697 | | | 615,786 | | |
| 05/26/09 | | 9,624,219 | 0 | | 7.3 | 0.58 | | | 238,168 | 7.1 | 1.08 | 616,149 | 7.0 | 0.16 |
| | 06/01/09 | 9,650,519 | | | May | | | | | | | | | |
| 06/01/09 | | 9,652,323 | 28,104 | 82,310 | | | | | 245,914 | | | 637,378 | | |
| 06/02/09 | | 9,652,323 | 0 | | 7.3 | 0.23 | 0.648 | | 246,871 | 6.9 | 1.05 | 638,835 | 7.2 | 0.26 |
| 06/03/09 | | 9,658,104 | 5,781 | | | | | | 248,350 | | | 641,072 | | |
| 06/15/09 | | 9,701,735 | 43,631 | | | | | | 261,249 | | | 674,466 | | |
| | 07/01/09 | 9,727,520 | | | June | | | | | | | | | |
| 07/01/09 | | 9,727,975 | 26,240 | 77,001 | | | | | 272,082 | | | 691,914 | | |
| 07/05/09 | | 9,732,032 | 4,057 | | | | | | 273,967 | | | 694,431 | | |
| 07/07/09 | | 9,732,032 | 0 | | 7.4 | 0.96 | 0.878 | | 274,443 | 7.1 | 2.20 | 695,508 | 7.1 | 0.20 |
| 07/20/09 | | 9,742,289 | 10,257 | | | | | | 278,743 | | | 700,527 | | |
| | 08/01/09 | 9,748,231 | | | July | | | | | | | | | |
| 08/03/09 | | 9,749,397 | 7,108 | 20,712 | | | | | 282,543 | | | 704,414 | | |
| 08/04/09 | | 9,749,397 | 0 | | 7.5 | 1.9 | 1.680 | | 283,019 | 7.1 | 2.80 | 704,768 | 7.3 | 0.14 |
| 08/08/09 | | 9,752,139 | 2,742 | | | | | | 284,005 | | | 706,115 | | |
| 08/08/09 | | 9,753,763 | 1,624 | | | | | | 284,480 | | | 707,282 | | |
| 08/09/09 | | 9,757,508 | 3,745 | | | | | | 284,962 | | | 710,677 | | |
| 08/10/09 | | 9,761,572 | 4,064 | | | | | | 285,930 | | | 714,131 | | |
| 08/10/09 | | 9,762,328 | 756 | | | | | | 286,411 | | | 714,491 | | |
| 08/12/09 | | 9,765,851 | 3,523 | | | | | | 287,368 | | | 717,355 | | |
| 08/13/09 | | 9,767,253 | 1,402 | | | | | | 287,846 | | | 718,430 | | |
| 08/17/09 | | 9,771,256 | 4,003 | | | | | | 289,758 | | | 720,916 | | |
| 08/30/09 | | 9,785,737 | 14,481 | | | | | | 295,976 | | | 730,538 | | |
| | 09/01/09 | 9,787,043 | | | August | | | | | | | | | |
| 09/01/09 | | 9,787,352 | 1,615 | 38,811 | 7.6 | 1.6 | 1.320 | | 296,492 | 7.1 | 2.85 | 731,650 | 7.4 | 0.53 |
| 09/10/09 | | 9,794,060 | 6,708 | | | | | | 299,850 | | | 735,572 | | |
| 09/21/09 | | 9,800,194 | 6,134 | | | | | | 303,204 | | | 738,803 | | |
| 09/22/09 | | 9,800,194 | 0 | | | | | | 303,684 | | | 739,163 | | |
| | 10/01/09 | 9,806,949 | | | September | | | | | | | | | |
| 10/01/09 | | 9,807,491 | 7,297 | 19,906 | | | | | 306,569 | | | 743,395 | | |
| 10/05/09 | | 9,811,856 | 4,365 | | | | | | 308,500 | | | 746,224 | | |
| 10/06/09 | | 9,811,856 | 0 | | 6.9 | 1.8 | 1.700 | | 308,983 | 6.8 | 2.48 | 746,576 | 7.1 | 0.55 |
| 10/15/09 | | 9,827,819 | 15,963 | | | | | | 314,838 | | | 757,329 | | |
| 10/18/09 | | 9,830,464 | 2,645 | | | | | | 316,288 | | | 758,757 | | |
| | 11/01/09 | 9,871,202 | | | October | | | | | | | | | |
| 11/02/09 | | 9,875,106 | 44,642 | 64,253 | | | | | 329,981 | | | 793,417 | | |
| 11/03/09 | | 9,875,106 | 0 | | 7.4 | 1.2 | 1.150 | | 330,961 | 7.0 | 2.60 | 795,595 | 7.2 | 0.46 |
| 11/04/09 | | 9,880,551 | 5,445 | | | | | | 331,974 | | | 797,084 | | |
| 11/05/09 | | 9,882,809 | 2,258 | | | | | | 332,950 | | | 798,526 | | |
| 11/11/09 | | 9,891,712 | 8,903 | | | | | | 337,309 | | | 803,889 | | |
| 11/12/09 | | 9,893,927 | 2,215 | | | | | | 338,274 | | | 805,324 | | |
| 11/16/09 | | 9,896,880 | 2,953 | | | | | | 339,720 | | | 807,132 | | |
| 11/17/09 | | 9,897,695 | 815 | | | | | | 340,200 | | | 807,495 | | |
| 11/20/09 | | 9,899,892 | 2,197 | | | | | | 341,164 | | | 808,946 | | |
| 11/30/09 | | 9,914,595 | 14,703 | | | | | | 346,476 | | | 819,664 | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | | |
|----------|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-------|--|--|-------------------------------------|-----------|--|-------------------------------------|------|--|
| | Date Actual | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | | 12/01/09 | 9,914,595 | | November | | | | | | | | | |
| 12/01/09 | | 9,914,595 | 0 | 43,393 | 7.6 | 1.7 | 1.500 | 347,446 | 7.3 | 2.25 | 820,740 | 7.8 | 0.67 | |
| 12/15/09 | | 9,931,024 | 16,429 | | | | | 354,237 | | | 829,781 | | | |
| 12/18/09 | | 9,933,254 | 2,230 | | | | | 355,200 | | | 831,213 | | | |
| | | 01/01/10 | 9,956,004 | | December | | | | | | | | | |
| 01/03/10 | | 9,960,070 | 26,816 | 41,409 | | | | 362,443 | | | 853,235 | | | |
| 01/05/10 | | 9,960,070 | 0 | 6.9 | 2.3 | 2.220 | 362,924 | 7.2 | 5.36 | 855,045 | 7.2 | 0.68 | | |
| 01/14/10 | | 9,969,979 | 9,909 | | | | 365,847 | | | 860,488 | | | | |
| 01/18/10 | | 9,972,503 | 2,524 | | | | 366,807 | | | 862,304 | | | | |
| 01/31/10 | | 9,991,034 | 18,531 | | | | 370,664 | | | 878,832 | | | | |
| | | 02/01/10 | 9,991,034 | | January | | | | | | | | | |
| 02/02/10 | | 9,991,034 | 0 | 35,030 | 7.4 | 1.6 | 1.460 | 371,145 | 7.2 | 4.05 | 880,637 | 7.2 | 0.46 | |
| 02/03/10 | | 9,994,392 | 3,358 | | | | 371,664 | | | 881,364 | | | | |
| 02/16/10 | | 10,002,996 | 8,604 | | | | 374,543 | | | 887,937 | | | | |
| 02/28/10 | | 10,009,542 | 6,546 | | | | 376,928 | | | 892,655 | | | | |
| | | 03/01/10 | 10,009,542 | | February | | | | | | | | | |
| 03/02/10 | | 10,009,542 | 0 | 18,508 | 7.6 | 1.6 | 1.340 | 376,928 | 7.4 | 2.70 | 893,732 | 7.4 | 1.41 | |
| 03/06/10 | | 10,015,341 | 5,799 | | | | 377,919 | | | 898,085 | | | | |
| 03/13/10 | | 10,048,616 | 33,275 | | | | 383,764 | | | 927,938 | | | | |
| 03/17/10 | | 10,065,891 | 17,275 | | | | 388,140 | | | 942,069 | | | | |
| 03/23/10 | | 10,077,601 | 11,710 | | | | 392,478 | | | 950,481 | | | | |
| 03/31/10 | | 10,088,487 | 10,886 | | | | 396,786 | | | 958,091 | | | | |
| | | 04/01/10 | 10,088,725 | | March | | | | | | | | | |
| 04/01/10 | | 10,088,817 | 330 | 79,183 | | | | 396,786 | | | 958,456 | | | |
| 04/04/10 | | 10,092,465 | 3,648 | | | | 398,207 | | | 961,014 | | | | |
| 04/06/10 | | 10,092,465 | 0 | 7.4 | 1.3 | 1.180 | 399,166 | 7.2 | 2.00 | 962,110 | 7.2 | 0.20 | | |
| 04/19/10 | | 10,151,166 | 58,701 | | | | 416,846 | | | 1,005,028 | | | | |
| | | 05/01/10 | 10,189,439 | | April | | | | | | | | | |
| 05/03/10 | | 10,196,869 | 45,703 | 100,715 | | | 432,284 | | | 1,038,553 | | | | |
| 05/04/10 | | 10,196,869 | 0 | 7.3 | 0.98 | 0.902 | 433,730 | 7.1 | 1.12 | 1,040,370 | 7.2 | 0.37 | | |
| 05/17/10 | | 10,258,463 | 61,594 | | | | 453,256 | | | 1,083,344 | | | | |
| 06/01/10 | | 10,294,510 | 36,047 | | | | 466,168 | | | 1,109,480 | | | | |
| | | 06/01/10 | 10,294,510 | | May | | | | | | | | | |
| 06/01/10 | | 10,294,510 | 0 | 105,071 | 7.6 | 0.85 | 0.762 | 467,117 | 7.2 | 1.44 | 1,110,569 | 7.3 | 0.28 | |
| 06/21/10 | | 10,372,589 | 78,079 | | | | 488,138 | | | 1,171,628 | | | | |
| 06/30/10 | | 10,400,340 | 27,751 | | | | 495,720 | | | 1,193,925 | | | | |
| 06/30/10 | | 10,400,889 | 549 | | | | 496,193 | | | 1,194,286 | | | | |
| | | 07/01/10 | 10,401,954 | | June | | | | | | | | | |
| 07/01/10 | | 10,402,536 | 1,647 | 107,444 | | | 496,664 | | | 1,195,375 | | | | |
| 07/05/10 | | 10,409,431 | 6,895 | | | | 499,493 | | | 1,200,058 | | | | |
| 07/06/10 | | 10,409,431 | 0 | 7.3 | 1.1 | 0.988 | 499,963 | 7.3 | 1.92 | 1,200,783 | 7.5 | 0.41 | | |
| 07/12/10 | | 10,426,614 | 17,183 | | | | 504,247 | | | 1,213,873 | | | | |
| 07/21/10 | | 10,506,902 | 80,288 | | | | 525,545 | | | 1,275,358 | | | | |
| 07/22/10 | | 10,515,567 | 8,665 | | | | 527,488 | | | 1,282,668 | | | | |
| 07/23/10 | | 10,532,459 | 16,892 | | | | 531,679 | | | 1,283,332 | | | | |
| | | 08/01/10 | 10,586,662 | | July | | | | | | | | | |
| 08/02/10 | | 10,594,781 | 62,322 | 184,709 | | | 549,129 | | | 1,283,332 | | | | |
| 08/03/10 | | 10,594,781 | 0 | 7.8 | 0.54 | 0.515 | 549,601 | 7.4 | 1.20 | 1,283,332 | 7.5 | 0.20 | | |
| 08/04/10 | | 10,599,046 | 4,265 | | | | 550,588 | | | 1,283,332 | | | | |
| 08/04/10 | | 10,599,046 | 0 | | | | 550,588 | | | 1,283,358 | | | | |
| 08/04/10 | | 10,599,046 | 0 | | | | 550,588 | | | 1,283,358 | | | | |
| 08/05/10 | | 10,600,937 | 1,891 | | | | 551,531 | | | 1,284,413 | | | | |
| 08/06/10 | | 10,602,372 | 1,435 | | | | 552,002 | | | 1,285,481 | | | | |
| 08/07/10 | | 10,604,242 | 1,870 | | | | 552,943 | | | 1,286,560 | | | | |
| 08/12/10 | | 10,621,705 | 17,463 | | | | 558,442 | | | 1,299,650 | | | | |
| 08/18/10 | | 10,644,322 | 22,617 | | | | 565,095 | | | 1,317,296 | | | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 09/01/10 | 10,664,511 | | August | | | | | | | | | |
| 09/06/10 | | 10,672,363 | 28,041 | 77,849 | | | | 575,879 | | | 1,336,978 | | |
| 09/07/10 | | 10,672,363 | 0 | | 7.7 | 0.64 | 0.588 | 575,879 | 7.2 | 1.28 | 1,337,698 | 7.4 | 0.19 |
| 09/09/10 | | 10,675,017 | 2,654 | | | | | 576,846 | | | 1,338,823 | | |
| 09/09/10 | | 10,675,348 | 331 | | | | | 576,846 | | | 1,339,184 | | |
| 09/15/10 | | 10,681,923 | 6,575 | | | | | 579,656 | | | 1,343,454 | | |
| 09/20/10 | | 10,688,747 | 6,824 | | | | | 582,004 | | | 1,348,431 | | |
| 09/28/10 | | 10,712,898 | 24,151 | | | | | 588,142 | | | 1,368,075 | | |
| 09/28/10 | | 10,713,225 | 327 | | | | | 588,142 | | | 1,368,432 | | |
| | 10/01/10 | 10,717,803 | | September | | | | | | | | | |
| 10/01/10 | | 10,718,374 | 5,149 | 53,291 | | | | 590,497 | | | 1,371,651 | | |
| 10/03/10 | | 10,721,339 | 2,965 | | | | | 591,909 | | | 1,373,451 | | |
| 10/05/10 | | 10,721,339 | 0 | | 7.6 | 0.80 | 0.763 | 592,849 | 7.3 | 1.32 | 1,374,902 | 7.5 | 0.10 |
| 10/15/10 | | 10,733,086 | 11,747 | | | | | 597,097 | | | 1,380,767 | | |
| 10/17/10 | | 10,734,957 | 1,871 | | | | | 598,030 | | | 1,381,848 | | |
| 10/31/10 | | 10,760,102 | 25,145 | | | | | 605,549 | | | 1,401,547 | | |
| | 11/01/10 | 10,760,102 | | October | | | | | | | | | |
| 11/02/10 | | 10,760,102 | 0 | 42,299 | 7.8 | 0.65 | 0.639 | 606,486 | 7.6 | 1.44 | 1,403,369 | 7.9 | 0.20 |
| 11/11/10 | | 10,773,294 | 13,192 | | | | | 611,203 | | | 1,410,005 | | |
| 11/14/10 | | 10,775,484 | 2,190 | | | | | 612,137 | | | 1,411,471 | | |
| 11/17/10 | | 10,778,424 | 2,940 | | | | | 613,539 | | | 1,413,301 | | |
| 11/28/10 | | 10,790,717 | 12,293 | | | | | 618,231 | | | 1,422,421 | | |
| | 12/01/10 | 10,794,632 | | November | | | | | | | | | |
| 12/04/10 | | 10,800,013 | 9,296 | 34,530 | | | | 622,006 | | | 1,428,648 | | |
| 12/07/10 | | 10,800,013 | 0 | | 7.6 | 1.0 | 0.989 | 623,423 | 7.8 | 1.80 | 1,430,482 | 7.9 | 0.24 |
| 12/15/10 | | 10,811,058 | 11,045 | | | | | 627,228 | | | 1,435,313 | | |
| 12/20/10 | | 10,814,659 | 3,601 | | | | | 628,621 | | | 1,437,887 | | |
| 12/23/10 | | 10,816,825 | 2,166 | | | | | 629,558 | | | 1,439,358 | | |
| | 01/01/11 | 10,827,569 | | December | | | | | | | | | |
| 01/02/11 | | 10,829,348 | 12,523 | 32,938 | | | | 632,850 | | | 1,449,967 | | |
| 01/04/11 | | 10,829,348 | 0 | | 8.0 | 1.6 | 1.500 | 633,803 | 7.9 | 5.31 | 1,452,901 | 8.0 | 0.53 |
| 01/17/11 | | 10,845,438 | 16,090 | | | | | 638,076 | | | 1,462,175 | | |
| 01/28/11 | | 10,852,203 | 6,765 | | | | | 640,437 | | | 1,467,352 | | |
| 01/30/11 | | 10,853,317 | 1,114 | | | | | 640,910 | | | 1,468,093 | | |
| | 02/01/11 | 10,853,317 | | January | | | | | | | | | |
| 02/01/11 | | 10,853,317 | 0 | 25,748 | 7.9 | 2.1 | 2.100 | 641,382 | 7.7 | 4.90 | 1,468,834 | 7.6 | 0.18 |
| 02/02/11 | | 10,854,899 | 1,582 | | | | | 641,426 | | | 1,469,273 | | |
| 02/14/11 | | 10,859,963 | 5,064 | | | | | 643,318 | | | 1,472,988 | | |
| 02/21/11 | | 10,876,100 | 16,137 | | | | | 646,167 | | | 1,488,233 | | |
| 02/21/11 | | 10,876,705 | 605 | | | | | 646,167 | | | 1,488,978 | | |
| 02/24/11 | | 10,880,277 | 3,572 | | | | | 647,105 | | | 1,491,974 | | |
| 02/27/11 | | 10,883,601 | 3,324 | | | | | 648,128 | | | 1,494,713 | | |
| | 03/01/11 | 10,883,601 | | February | | | | | | | | | |
| 03/01/11 | | 10,883,601 | 0 | 30,284 | 7.8 | 1.8 | 1.530 | 648,594 | 7.7 | 4.95 | 1,496,572 | 7.8 | 0.52 |
| 03/21/11 | | 10,957,602 | 74,001 | | | | | 664,834 | | | 1,558,957 | | |
| | 04/01/11 | 11,023,291 | | March | | | | | | | | | |
| 04/04/11 | | 11,045,838 | 88,236 | 139,690 | | | | 687,442 | | | 1,632,177 | | |
| 04/05/11 | | 11,045,838 | 0 | | 8.0 | 0.40 | 0.380 | 688,903 | 7.8 | 1.10 | 1,637,351 | 7.7 | 0.21 |
| 04/16/11 | | 11,138,592 | 92,754 | | | | | 710,138 | | | 1,708,997 | | |
| 04/26/11 | | 11,216,566 | 77,974 | | | | | 731,830 | | | 1,771,918 | | |
| 04/29/11 | | 11,258,391 | 41,825 | | | | | 743,289 | | | 1,804,105 | | |
| 04/29/11 | | 11,262,451 | 4,060 | | | | | 744,757 | | | 1,807,043 | | |
| | 05/02/11 | 11,274,169 | | April | | | | | | | | | |
| 05/02/11 | | 11,277,586 | 15,135 | 250,878 | | | | 750,559 | | | 1,818,009 | | |
| 05/03/11 | | 11,277,586 | 0 | | 7.8 | 0.37 | 0.338 | 751,514 | 7.6 | 0.68 | 1,819,601 | 7.8 | 0.20 |
| 05/16/11 | | 11,310,055 | 32,469 | | | | | 763,336 | | | 1,841,085 | | |
| 05/17/11 | | 11,311,520 | 1,465 | | | | | 763,807 | | | 1,842,263 | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 06/01/11 | 11,344,383 | | May | | | | | | | | | |
| 06/02/11 | | 11,347,664 | 36,144 | 70,214 | | | | 778,512 | | | 1,868,238 | | |
| 06/06/11 | | 11,354,057 | 6,393 | | | | | 781,832 | | | 1,872,152 | | |
| 06/07/11 | | 11,354,057 | 0 | | 7.7 | 0.46 | 0.447 | 782,305 | 7.6 | 0.85 | 1,872,545 | 7.7 | 0.14 |
| 06/17/11 | | 11,368,867 | 14,810 | | | | | 788,961 | | | 1,881,915 | | |
| 06/20/11 | | 11,373,134 | 4,267 | | | | | 790,860 | | | 1,884,626 | | |
| | 07/01/11 | 11,419,112 | | June | | | | | | | | | |
| 07/04/11 | | 11,434,679 | 61,545 | 74,729 | | | | 811,146 | | | 1,932,424 | | |
| 07/05/11 | | 11,434,679 | 0 | | 7.9 | 0.78 | 0.752 | 811,621 | 7.6 | 1.50 | 1,933,199 | 7.5 | 0.19 |
| 07/18/11 | | 11,450,616 | 15,937 | | | | | 818,915 | | | 1,942,544 | | |
| 07/27/11 | | 11,470,412 | 19,796 | | | | | 825,753 | | | 1,958,375 | | |
| 07/28/11 | | 11,473,213 | 2,801 | | | | | 826,666 | | | 1,960,688 | | |
| | 08/01/11 | 11,483,192 | | July | | | | | | | | | |
| 08/01/11 | | 11,484,004 | 10,791 | 64,080 | | | | 830,795 | | | 1,968,801 | | |
| 08/02/11 | | 11,484,004 | 0 | | 7.9 | 0.86 | 0.800 | 831,711 | 7.5 | 1.26 | 1,970,342 | 7.5 | 0.42 |
| 08/04/11 | | 11,492,474 | 8,470 | | | | | 834,025 | | | 1,975,014 | | |
| 08/05/11 | | 11,493,370 | 896 | | | | | 834,506 | | | 1,975,820 | | |
| 08/15/11 | | 11,509,618 | 16,248 | | | | | 841,800 | | | 1,986,618 | | |
| 08/31/11 | | 11,524,004 | 14,386 | | | | | 849,495 | | | 1,994,794 | | |
| | 09/01/11 | 11,524,179 | | August | | | | | | | | | |
| 09/01/11 | | 11,524,431 | 427 | 40,987 | | | | 849,948 | | | 1,994,794 | | |
| 09/03/11 | | | | | | | | 850,953 | | | 1,997,262 | | |
| 09/05/11 | | 11,533,935 | 9,504 | | | | | 852,322 | | | 2,003,014 | | |
| 09/06/11 | | 11,533,935 | 0 | | 8.0 | 1.2 | 1.180 | 852,778 | 7.7 | 1.65 | 2,004,161 | 7.7 | 0.55 |
| 09/08/11 | | 11,538,054 | 4,119 | | | | | 854,174 | | | 2,005,726 | | |
| 09/19/11 | | 11,547,336 | 9,282 | | | | | 859,158 | | | 2,011,134 | | |
| 09/20/11 | | 11,548,416 | 1,080 | | | | | 859,611 | | | 2,011,902 | | |
| 09/28/11 | | 11,562,993 | 14,577 | | | | | 863,696 | | | 2,024,247 | | |
| | 10/01/11 | 11,568,104 | | September | | | | | | | | | |
| 10/03/11 | | 11,572,412 | 9,419 | 43,925 | | | | 867,344 | | | 2,031,123 | | |
| 10/04/11 | | 11,574,566 | 2,154 | | | | | 868,253 | | | 2,032,650 | | |
| 10/05/11 | | 11,574,566 | 0 | | | | | 868,707 | | | 2,033,029 | | |
| 10/06/11 | | 11,574,566 | 0 | | | | | 869,161 | | | 2,033,785 | | |
| 10/08/11 | | 11,579,097 | 4,531 | | | | | 870,519 | | | 2,036,082 | | |
| 10/10/11 | | 11,579,097 | 0 | | 7.5 | 1.2 | 1.090 | 870,972 | 7.4 | 2.15 | 2,036,082 | 7.5 | 0.22 |
| 10/26/11 | | 11,603,315 | 24,218 | | | | | 879,056 | | | 2,054,141 | | |
| 10/30/11 | | 11,606,358 | 3,043 | | | | | 880,416 | | | 2,055,759 | | |
| | 11/01/11 | 11,607,509 | | October | | | Pounds Cr | | | | | | |
| 11/01/11 | | 11,608,102 | 1,744 | 39,405 | | | 0.358 | 881,323 | | | 2,055,759 | | |
| 11/02/11 | | 11,608,233 | 131 | | | | | 881,362 | | | 2,055,792 | | |
| 11/03/11 | | 11,608,233 | 0 | | 8.2 | 1.3 | 1.220 | 881,378 | 8.1 | 2.46 | 2,055,818 | 8.0 | 0.03 |
| 11/05/11 | | 11,611,395 | 3,162 | | | | | 882,340 | | | 2,059,467 | | |
| 11/06/11 | | 11,614,756 | 3,361 | | | | | 883,608 | | | 2,062,594 | | |
| 11/07/11 | | 11,616,924 | 2,168 | | | | | 883,718 | | | 2,063,343 | | |
| 11/08/11 | | 11,618,636 | 1,712 | | | | | 884,345 | | | 2,065,014 | | |
| 11/12/11 | | 11,651,616 | 32,980 | | | | | 890,384 | | | 2,094,235 | | |
| 11/15/11 | | 11,662,529 | 10,913 | | | | | 894,135 | | | 2,102,462 | | |
| 11/23/11 | | 11,677,899 | 15,370 | | | | | 900,936 | | | 2,112,833 | | |
| 11/29/11 | | 11,687,640 | 9,741 | | | | Pounds Cr | 905,028 | | | 2,119,690 | | |
| | 12/01/11 | 11,689,609 | | November | | | 0.834 | | | | | | |
| 12/01/11 | | 11,687,640 | 0 | 82,100 | 7.4 | 1.7 | 1.700 | 905,938 | 7.8 | 2.65 | 2,119,690 | 8.0 | 0.72 |
| 12/06/11 | | 11,706,691 | 19,051 | | | | | 910,893 | | | 2,134,888 | | |
| 12/15/11 | | 11,724,224 | 17,533 | | | | | 918,198 | | | 2,147,141 | | |
| 12/26/11 | | 11,737,368 | 13,144 | | | | | 924,102 | | | 2,155,863 | | |
| 12/31/11 | | 11,742,107 | 4,739 | | | | | 926,371 | | | 2,158,911 | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|------|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 01/01/12 | 11,742,204 | | December | | Pounds Cr | | | | | | | |
| 01/04/12 | | 11,744,667 | 2,560 | 52,595 | | 0.745 | 927,731 | | | | 2,158,911 | | |
| 01/05/12 | | 11,744,667 | 0 | | 6.9 | 0.98 | 0.862 | 928,184 | 7.5 | 1.84 | 2,161,198 | 7.3 | 0.27 |
| 01/19/12 | | 11,754,619 | 9,952 | | | | 932,303 | | | | 2,166,977 | | |
| 01/27/12 | | 11,758,987 | 4,368 | | | | 934,572 | | | | 2,169,652 | | |
| 01/31/12 | | 11,761,124 | 2,137 | | | Pounds Cr | 935,480 | | | | 2,171,180 | | |
| | 02/01/12 | 11,761,228 | | January | | 0.137 | | | | | | | |
| 02/02/12 | | 11,761,124 | 0 | 19,024 | 7.4 | 2.1 | 1.860 | 936,191 | 7.7 | 2.50 | 2,172,687 | 7.7 | 6.1 |
| 02/07/12 | | 11,763,586 | 2,358 | | | | 938,043 | | | | 2,176,546 | | 1.71 |
| 02/22/12 | | 11,778,355 | 14,769 | | | | 941,736 | | | | 2,183,827 | | |
| 02/24/12 | | 11,780,157 | 16,571 | | | | 942,642 | | | | 2,184,964 | | |
| 02/28/12 | | 11,782,379 | 18,793 | | | Pounds Cr | 943,547 | | | | 2,186,478 | | |
| | 03/01/12 | 11,783,379 | | February | | 0.329 | | | | | | | |
| 03/01/12 | | 11,782,379 | 0 | 21,255 | 7.1 | 2.6 | 2.560 | 944,002 | 7.3 | 3.45 | 2,186,478 | 7.6 | 2.04 |
| 03/14/12 | | 11,824,851 | 41,472 | | | | 956,400 | | | | 2,221,364 | | |
| 03/21/12 | | 11,839,925 | 15,074 | | | | 962,783 | | | | 2,231,770 | | |
| 03/25/12 | | 11,848,965 | 9,040 | | | | 965,591 | | | | 2,239,149 | | |
| | 04/01/12 | 11,865,023 | | March | | Pounds Cr | | | | | | | |
| 04/03/12 | | 11,871,806 | 22,841 | 81,644 | | 1.740 | 973,817 | | | | 2,256,557 | | |
| 04/05/12 | | 11,871,806 | 6,783 | | 7.6 | 0.83 | 0.730 | 975,189 | 7.9 | 1.28 | 2,258,866 | 7.8 | 0.48 |
| 04/18/12 | | 11,896,899 | 25,093 | | | | 984,322 | | | | 2,273,887 | | |
| 04/21/12 | | 11,906,449 | 9,550 | | | | 986,147 | | | | 2,282,902 | | |
| | 05/01/12 | 11,923,538 | | April | | Pounds Cr | | | | | | | |
| 05/02/12 | | 11,930,935 | 24,486 | 58,515 | | 0.356 | 996,194 | | | | 2,300,258 | | |
| 05/03/12 | | 11,933,848 | 2,913 | | | | 997,107 | | | | 2,302,572 | | |
| 05/09/12 | | 11,989,964 | 56,116 | | | | 1,010,822 | | | | 2,349,979 | | |
| 05/14/12 | | 12,005,061 | 15,097 | | | | 1,016,338 | | | | 2,361,277 | | |
| 05/16/12 | | 12,005,061 | 0 | | 6.5 | 0.67 | 0.581 | 1,018,169 | 7.4 | 0.63 | 2,363,951 | 7.6 | 0.15 |
| 05/20/12 | | 12,016,709 | 11,648 | | | | 1,021,100 | | | | 2,368,989 | | |
| 05/22/12 | | 12,018,570 | 1,861 | | | | 1,022,007 | | | | 2,370,141 | | |
| 05/24/12 | | 12,021,249 | 2,679 | | | | 1,023,245 | | | | 2,372,066 | | |
| 05/31/12 | | 12,028,808 | 7,559 | | | | 1,027,317 | | | | 2,378,556 | | |
| | 06/01/12 | 12,029,342 | | May | | Pounds Cr | | | | | | | |
| 06/02/12 | | 12,030,994 | 2,186 | 105,804 | | 0.512 | 1,027,317 | | | | 2,378,556 | | |
| 06/05/12 | | 12,033,617 | 2,623 | | | | 1,028,676 | | | | 2,380,101 | | |
| 06/07/12 | | 12,033,617 | 0 | | 6.8 | 0.55 | 0.507 | 1,029,581 | 7.4 | 0.99 | 2,381,259 | 7.7 | 0.17 |
| 06/19/12 | | 12,046,851 | 13,234 | | | | 1,034,134 | | | | 2,389,253 | | |
| 06/29/12 | | 12,056,747 | 9,896 | | | | 1,038,653 | | | | 2,395,689 | | |
| | 07/01/12 | 12,057,998 | | June | | Pounds Cr | | | | | | | |
| 07/03/12 | | 12,059,332 | 1,334 | 28,656 | | 0.121 | 1,040,009 | | | | 2,397,210 | | |
| 07/05/12 | | 12,059,332 | 0 | | 6.1 | 0.98 | 0.906 | 1,040,913 | 6.2 | 1.24 | 2,397,969 | 6.6 | 0.19 |
| 07/10/12 | | 12,064,003 | 4,671 | | | | 1,042,739 | | | | 2,402,552 | | |
| 07/20/12 | | 12,069,263 | 5,260 | | | | 1,045,446 | | | | 2,402,552 | | |
| | 08/01/12 | 12,078,083 | | July | | Pounds Cr | | | | | | | |
| 08/01/12 | | 12,078,359 | 9,096 | 20,085 | | 0.152 | 1,049,510 | | | | 2,408,561 | | |
| 08/02/12 | | 12,078,359 | 0 | | 6.2 | 1.20 | 1,049,969 | 6.2 | 1.72 | | 2,408,954 | 6.0 | 0.56 |
| 08/07/12 | | 12,082,510 | 4,151 | | | | 1,051,808 | | | | 2,410,869 | | |
| 08/16/12 | | 12,098,108 | 15,598 | | | | 1,056,800 | | | | 2,423,447 | | |
| | 09/01/12 | 12,111,167 | | August | | Pounds Cr | | | | | | | |
| 09/01/12 | | 12,111,772 | 13,664 | 33,084 | | 0.309 | 1,063,135 | | | | 2,432,088 | | |
| 09/09/12 | | 12,116,611 | 4,839 | | | | 1,065,875 | | | | 2,434,745 | | |
| 09/11/12 | | 12,117,783 | 1,172 | | | 1.70 | 1,066,747 | 6.4 | 0.72 | | 2,435,127 | 6.3 | 0.21 |
| 09/18/12 | | 12,121,226 | 3,443 | | | | 1,068,577 | | | | 2,437,061 | | |
| 09/26/12 | | 12,125,024 | 3,798 | | | | 1,070,837 | | | | 2,438,957 | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|------|--|--|-------------------------------------|------|--|-------------------------------------|------|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 10/01/12 | 12,126,164 | | September | | Pounds Cr | | | | | | | |
| 10/04/12 | | 12,127,304 | 2,280 | 14,997 | | 0.190 | 1,072,193 | | | 2,440,091 | | | |
| 10/04/12 | | 12,127,304 | 1,140 | | 1.50 | 1.370 | 1,072,193 | 6.4 | 1.44 | 2,440,091 | 6.2 | 0.32 | |
| 10/05/12 | | 12,129,085 | 1,781 | | | | 1,073,276 | | | 2,440,999 | | | |
| 10/09/12 | | 12,129,791 | 706 | | | | 1,073,696 | | | 2,441,370 | | | |
| 10/19/12 | | 12,163,907 | 34,116 | | | | 1,081,043 | | | 2,471,345 | | | |
| 10/30/12 | | 12,189,653 | 25,746 | | | | 1,092,239 | | | 1,289,448 | | | |
| | 11/01/12 | 12,191,094 | | October | | Pounds Cr | | | | | | | |
| 11/06/12 | | 12,196,769 | 7,116 | 64,930 | | 0.741 | 1,096,343 | | | 2,493,654 | | | |
| 11/09/12 | | 12,198,437 | 1,668 | | NA | 1.1 | 1.040 | 1,097,450 | NA | 1.34 | 2,494,750 | NA | 0.21 |
| 11/22/12 | | 12,212,741 | 14,304 | | | | 1,103,179 | | | 2,504,679 | | | |
| 11/30/12 | | 12,218,011 | 5,270 | | | | 1,106,155 | | | 2,507,598 | | | |
| | 12/01/12 | 12,218,663 | | November | | Pounds Cr | | | | | | | |
| 12/03/12 | | 12,219,752 | 1,089 | 27,569 | | 0.239 | 1,107,006 | | | 2,508,689 | | | |
| 12/10/12 | | 12,223,289 | 3,537 | | 8.0 | 1.00 | 1,109,121 | 7.7 | 1.60 | 2,510,506 | 8.0 | 0.27 | |
| 12/26/12 | | 12,234,632 | 11,343 | | | | 1,114,683 | | | 2,517,462 | | | |
| 12/31/12 | | 12,239,248 | 4,616 | | | | 1,117,237 | | | 2,520,012 | | | |
| | 01/01/13 | 12,239,543 | | December | | Pounds Cr | | | | | | | |
| 01/01/13 | | 12,239,958 | 710 | 20,880 | | 0.191 | 1,117,663 | | | 2,520,377 | | | |
| 01/10/13 | | 12,246,590 | 6,632 | | | 1.90 | 1,120,640 | 7.7 | 1.68 | 2,524,770 | 8.0 | 1.32 | |
| 01/24/13 | | 12,278,928 | 32,338 | | | | 1,130,141 | | | 2,550,847 | | | |
| 01/28/13 | | 12,282,035 | 3,107 | | | | 1,131,414 | | | 2,553,042 | | | |
| 01/31/13 | | 12,287,892 | 5,857 | | | | 1,132,425 | | | 2,558,715 | | | |
| | 02/01/13 | 12,288,247 | | January | | Pounds Cr | | | | | | | |
| 02/01/13 | | 12,289,018 | 1,126 | 48,644 | | 0.697 | 1,132,680 | | | 2,559,456 | | | |
| 02/07/13 | | 12,293,874 | 4,856 | | 7.9 | 0.82 | 0.663 | 1,134,376 | 7.6 | 1.35 | 2,563,137 | 8.0 | 0.22 |
| 02/20/13 | | 12,308,445 | 14,571 | | | | 1,038,672 | | | 2,575,057 | | | |
| 02/27/13 | | 12,313,181 | 19,307 | | | | 1,140,359 | | | 2,578,725 | | | |
| | 03/01/13 | 12,314,165 | | February | | Pounds Cr | | | | | | | |
| 03/03/13 | | 12,315,958 | 2,777 | 25,918 | | 0.143 | 1,141,206 | | | 2,580,927 | | | |
| 03/07/13 | | 12,318,024 | 2,066 | | 7.9 | 0.83 | 0.753 | 1,142,054 | 7.7 | 1.44 | 2,582,395 | 7.8 | 0.27 |
| 03/18/13 | | 12,361,201 | 43,177 | | | | 1,151,536 | | | 2,619,703 | | | |
| 03/20/13 | | 12,365,136 | 3,935 | | | | 1,153,250 | | | 2,622,317 | | | |
| 03/27/13 | | 12,378,442 | 13,306 | | | | 1,159,233 | | | 2,630,884 | | | |
| 03/31/13 | | 12,400,821 | 22,379 | | | | 1,164,838 | | | 2,649,804 | | | |
| | 04/01/13 | 12,403,728 | | March | | Pounds Cr | | | | | | | |
| 04/01/13 | | 12,407,465 | 3,737 | 89,563 | | 0.562 | 1,165,570 | | | 2,655,346 | | | |
| 04/11/13 | | 12,461,497 | 54,032 | | 7.4 | 0.42 | 0.431 | 1,180,148 | 7.0 | 0.60 | 2,700,747 | 7.4 | 0.14 |
| 04/17/13 | | 12,522,138 | 60,641 | | | | 1,196,092 | | | 2,749,790 | | | |
| | 05/01/13 | 12,570,545 | | April | | Pounds Cr | | | | | | | |
| 05/01/13 | --- | --- | --- | 166,817 | | 0.599 | | | | | | | |
| 05/01/13 | | 12,571,333 | 49,195 | | 8.1 | 0.56 | 0.553 | 1,215,096 | 7.3 | 0.38 | 2,785,968 | 7.8 | 0.09 |
| 05/19/13 | | 12,623,298 | 51,965 | | | | | 1,235,753 | | | 2,823,953 | | |
| | 06/01/13 | 12,647,282 | | May | | Pounds Cr | | | | | | | |
| | | | | 76,737 | | 0.353 | | | | | | | |
| 06/06/13 | | 12,657,605 | 34,307 | | 7.6 | 0.96 | 0.826 | 1,251,551 | 7.4 | 0.47 | 2,849,502 | 7.8 | 0.73 |
| 06/12/13 | | 12,669,485 | 11,880 | | | | | 1,256,351 | | | 2,857,966 | | |
| 06/17/13 | | 12,680,642 | 11,157 | | | | | 1,259,722 | | | 2,867,078 | | |
| | 07/01/13 | 12,727,950 | | June | | Pounds Cr | | | | | | | |
| | | | | 80,668 | | 0.555 | | | | | | | |
| 07/18/13 | | 12,767,116 | 86,474 | | 7.4 | 0.73 | 0.694 | 1,286,165 | 6.7 | 0.73 | 2,938,280 | 7.5 | 0.07 |
| 07/31/13 | | 12,780,876 | 13,760 | | | | | 1,293,015 | | | 2,947,351 | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|------|--|--|-------------------------------------|------|--|-------------------------------------|------|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 08/01/13 | 12,781,814 | | July | | | Pounds Cr | | | | | | |
| | | | | 53,864 | | 0.311 | | | | | | | |
| 08/04/13 | | 12,784,628 | 3,752 | | | | 1,293,015 | | | 2,947,351 | | | |
| 08/07/13 | | 12,786,184 | 1,556 | | | | 1,295,588 | | | 2,951,110 | | | |
| 08/08/13 | | 12,786,555 | 371 | 7.5 | 0.83 | 0.775 | 1,296,442 | 6.8 | 0.68 | 2,951,801 | 7.2 | 0.16 | |
| 08/19/13 | | 12,795,058 | 8,503 | | | | 1,298,966 | | | 2,954,811 | | | |
| 08/21/13 | | 12,795,638 | 580 | | | | 1,300,287 | | | 2,956,243 | | | |
| 08/26/13 | | 12,797,295 | 1,657 | | | | 1,301,154 | | | 2,957,147 | | | |
| 08/28/13 | | 12,800,434 | 3,139 | | | | 1,302,541 | | | 2,958,987 | | | |
| | 09/01/13 | 12,803,511 | | August | | | Pounds Cr | | | | | | |
| | | | | 21,697 | | 0.140 | | | | | | | |
| 09/01/13 | | 12,803,511 | 6,216 | | | | 1,303,580 | | | 2,961,265 | | | |
| 09/05/13 | | 12,808,096 | 4,585 | | | | 1,305,282 | | | 2,964,435 | | | |
| 09/09/13 | | 12,811,883 | 8,372 | | | | 1,306,947 | | | 2,966,675 | | | |
| 09/11/13 | | 12,815,166 | 7,070 | | | | 1,309,139 | | | 2,968,968 | | | |
| 09/14/13 | | 12,818,151 | 6,268 | | | | 1,310,005 | | | 2,970,501 | | | |
| 09/18/13 | | 12,822,283 | 7,117 | 7.3 | 1.3 | 1.170 | 1,311,729 | 7.1 | 0.99 | 2,973,533 | 7.3 | 0.19 | |
| 09/30/13 | | 12,833,637 | 11,354 | | | | 1,317,815 | | | 2,980,475 | | | |
| | 10/01/13 | 12,834,025 | | September | | | Pounds Cr | | | | | | |
| 10/01/13 | | 12,834,025 | 388 | 30,514 | | 0.297 | | | | | | | |
| 10/08/13 | | 12,843,796 | 9,771 | | | | 1,318,244 | | | 2,980,475 | | | |
| 10/16/13 | | 12,852,554 | 8,758 | | | | 1,321,693 | | | 2,988,064 | | | |
| 10/18/13 | | 12,855,027 | 2,473 | | 7.7 | 1.20 | 1,320,005 | | | 2,994,143 | | | |
| | 11/01/13 | 12,867,815 | | October | | | Pounds Cr | | | | | | |
| 11/01/13 | | 12,867,815 | 12,788 | 33,790 | | 0.315 | | | | | | | |
| 11/05/13 | | 12,876,841 | 9,026 | | | | 1,332,902 | | | 3,004,777 | | | |
| 11/13/13 | | 12,903,367 | 26,526 | | 7.8 | 1.00 | 1,335,488 | | | 3,012,422 | | | |
| 11/20/13 | | 12,924,566 | 21,199 | | | | 1,345,039 | 8.1 | 0.66 | 3,033,152 | 7.9 | 0.11 | |
| | 12/01/13 | 12,940,971 | | November | | | Pounds Cr | | | 3,051,316 | | | |
| 12/02/13 | | 12,944,252 | 19,686 | 73,156 | | 0.560 | | | | | | | |
| 12/10/13 | | 12,954,971 | 10,719 | | 7.6 | 1.4 | 1,360,688 | | | 3,063,995 | | | |
| 12/12/13 | | 12,957,411 | 2,440 | | | | 1,365,411 | 7.4 | 2.70 | 3,071,689 | 7.1 | 0.07 | |
| 12/23/13 | | 12,965,941 | 8,530 | | | | 1,366,744 | | | 3,073,244 | | | |
| 12/31/13 | | 12,970,459 | 4,518 | | | | 1,371,029 | | | 3,078,956 | | | |
| | 01/01/14 | 12,970,599 | | December | | | Pounds Cr | | | 3,081,611 | | | |
| 01/01/14 | | 12,970,772 | 313 | 29,628 | | 0.326 | | | | | | | |
| 01/15/14 | | 12,976,884 | 6,112 | | 7.5 | 1.2 | 1,373,592 | | | 3,081,991 | | | |
| 01/31/14 | | 12,983,061 | 6,177 | | | | 1,376,582 | 7.1 | 2.20 | 3,086,176 | 7.6 | 0.11 | |
| | 02/01/14 | 12,983,265 | | January | | | Pounds Cr | | | 3,090,406 | | | |
| 02/02/14 | | 12,983,747 | 686 | 12,666 | | 0.111 | | | | | | | |
| 02/13/14 | | 12,987,155 | 3,408 | | 8.0 | 1.8 | 1,380,032 | | | 3,090,789 | | | |
| 02/28/14 | | 12,993,603 | 6,448 | | | | 1,381,726 | 8.1 | 2.88 | 3,093,093 | 8.3 | 0.19 | |
| | 03/01/14 | 12,993,783 | | February | | | Pounds Cr | | | | | | |
| 03/01/14 | | 12,993,909 | 306 | 10,518 | | 0.141 | | | | | | | |
| 03/13/14 | | 13,005,882 | 11,973 | | 7.6 | 0.38 | 1,385,639 | 7.7 | 5.80 | 3,112,477 | 8.0 | 0.30 | |
| 03/31/14 | | 13,059,539 | 53,657 | | | | 1,386,605 | | | | | | |
| | 04/01/14 | 13,059,979 | | March | | | Pounds Cr | | | | | | |
| 04/01/14 | | 13,061,650 | 2,111 | 66,196 | | 0.239 | | | | | | | |
| 04/12/14 | | 13,091,485 | 29,835 | | | | 1,399,014 | | | 3,165,447 | | | |
| 04/13/14 | | 13,099,571 | 8,086 | | | | 1,411,117 | | | 3,187,701 | | | |
| 04/15/14 | | 13,135,912 | 36,341 | | | | 1,412,822 | | | 3,195,631 | | | |
| 04/18/14 | | 13,165,955 | 30,043 | | | | 1,424,711 | | | 3,224,028 | | | |
| 04/22/14 | | 13,210,016 | 44,061 | | 7.6 | 0.44 | 1,434,115 | | | 3,247,300 | | | |
| | 05/01/14 | 13,211,258 | | April | | | Pounds Cr | | | 3,258,396 | 7.5 | 0.31 | |
| 05/01/14 | | 13,211,345 | 1,329 | 151,279 | | 0.475 | | | | | | | |
| 05/13/14 | | 13,267,656 | 56,311 | | 7.5 | 0.28 | 1,451,524 | | | 3,282,450 | | | |
| 05/14/14 | | 13,280,912 | 13,256 | | | | 1,471,868 | 7.3 | 0.73 | 3,326,392 | 7.4 | 0.20 | |
| 05/15/14 | | 13,286,754 | 5,842 | | | | 1,475,015 | | | 3,337,773 | | | |
| 05/20/14 | | 13,304,068 | 17,314 | | | | 1,476,780 | | | 3,342,511 | | | |
| | 06/01/14 | 13,332,599 | | May | | | Pounds Cr | | | 3,355,729 | | | |
| 06/02/14 | | 13,336,115 | 32,047 | 121,341 | | 0.276 | | | | 3,382,176 | | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| 06/12/14 | | 13,372,027 | 35,912 | | 7.9 | 0.40 | 0.381 | 1,508,756 | 7.6 | 0.60 | 3,410,073 | 7.8 | 0.20 |
| 06/14/14 | | 13,374,936 | 2,909 | | | | | 1,510,080 | | | 3,412,070 | | |
| 06/17/14 | | 13,379,348 | 4,412 | | | | | 1,512,220 | | | 3,415,268 | | |
| 06/19/14 | | 13,394,274 | 14,926 | | | | | 1,514,826 | | | 3,429,626 | | |
| 06/20/14 | | 13,401,646 | 7,372 | | | | | 1,517,014 | | | 3,436,003 | | |
| 06/30/14 | | 13,444,046 | 42,400 | | | | | 1,531,745 | | | 3,470,067 | | |
| 07/01/14 | 07/01/14 | 13,445,046 | | June | | | Pounds Cr | 1,532,601 | | | 3,472,302 | | |
| 07/01/14 | | 13,446,138 | 2,092 | 112,447 | | | 0.357 | | | | | | |
| 07/02/14 | | 13,449,088 | 2,950 | | | | | 1,533,460 | | | 3,475,127 | | |
| 07/09/14 | | 13,463,816 | 14,728 | | 7.7 | 0.68 | 0.689 | 1,539,906 | 7.4 | 1.0 | 3,486,800 | 7.4 | 1.0 |
| 07/14/14 | | 13,472,104 | 8,288 | | | | | 1,543,805 | | | 3,492,830 | | |
| 07/28/14 | | 13,480,642 | 8,538 | July | | | Pounds Cr | 1,551,065 | | | 3,501,179 | | |
| 08/01/14 | 08/01/14 | 13,481,746 | | 36,700 | | | 0.211 | | | | | | |
| 08/01/14 | | 13,481,837 | 1,195 | | | | | 1,552,341 | | | 3,502,760 | | |
| 08/13/14 | | 13,495,032 | 13,195 | | 7.9 | 0.681 | 0.72 | 1,557,877 | 7.5 | 1.16 | 3,511,069 | 7.7 | 0.92 |
| 08/17/14 | | 13,502,593 | 7,561 | | | | | 1,560,483 | | | 3,517,406 | | |
| 08/19/14 | | 13,509,446 | 6,853 | | | | | 1,562,278 | | | 3,523,163 | | |
| 08/20/14 | | 13,517,300 | 7,854 | | | | | 1,563,989 | | | 3,530,111 | | |
| 08/22/14 | | 13,525,676 | 8,376 | | | | | 1,567,014 | | | 3,536,533 | | |
| 08/25/14 | | 13,534,424 | 8,748 | | | | | 1,571,333 | | | 3,542,173 | | |
| 08/29/14 | | 13,539,488 | 5,064 | | | | | 1,573,914 | | | 3,545,371 | | |
| 08/30/14 | | 13,542,314 | 2,826 | August | | | Pounds Cr | 1,575,198 | | | 3,547,361 | | |
| 09/01/14 | 09/01/14 | 13,543,999 | | 62,253 | | | 0.37 | | | | | | |
| 09/02/14 | | 13,546,601 | 4,287 | | | | | 1,577,338 | | | 3,550,419 | | |
| 09/05/14 | | 13,550,482 | 3,881 | | | | | 1,579,481 | | | 3,553,370 | | |
| 09/08/14 | | 13,562,709 | 12,227 | | | | | 1,582,918 | | | 3,564,025 | | |
| 09/17/14 | | 13,579,703 | 16,994 | | 7.9 | 0.60 | 0.546 | 1,589,348 | 7.6 | 1.16 | 3,577,644 | 7.3 | 0.36 |
| 09/24/14 | | 13,593,114 | 13,411 | September | | | Pounds Cr | 1,595,011 | | | 3,577,644 | | |
| 10/01/14 | 10/01/14 | 13,602,541 | | 58,542 | | | 0.27 | 1,600,155 | | | 3,577,644 | | |
| 10/01/14 | | 13,603,009 | 9,895 | | | | | 1,600,155 | | | 3,577,644 | | |
| 10/16/14 | | 13,633,400 | 30,391 | | 7.3 | 0.67 | 0.596 | 1,610,440 | 7.8 | 1.28 | 3,619,044 | 7.4 | 0.36 |
| 10/28/14 | | 13,658,462 | 25,062 | October | | | Pounds Cr | 1,621,724 | | | 3,636,660 | | |
| 11/01/14 | 11/01/14 | 13,662,568 | | 60,027 | | | 0.298 | | | | | | |
| 11/01/14 | | 13,663,621 | 5,159 | | | | | 1,624,238 | | | 3,640,194 | | |
| 11/12/14 | | 13,672,756 | 9,135 | | 8.1 | 1.1 | 0.980 | 1,629,780 | 7.6 | 1.62 | 3,648,121 | 8.1 | 1.08 |
| 11/30/14 | | 13,695,977 | 23,221 | | | | | 1,640,533 | | | 3,663,353 | | |
| 12/01/14 | 12/01/14 | 13,696,416 | | November | | | Pounds Cr | | | | | | |
| 12/01/14 | | 13,697,118 | 1,141 | 37,515 | | | 0.306 | 1,640,533 | | | 3,663,353 | | |
| 12/04/14 | | 13,701,386 | 4,268 | | | | | 1,643,108 | | | 3,666,947 | | |
| 12/08/14 | | 13,705,980 | 4,594 | | | | | 1,645,245 | | | 3,670,118 | | |
| 12/12/14 | | 13,709,486 | 3,506 | | 8.1 | 1.5 | 1.320 | 1,646,957 | 7.7 | 2.72 | 3,672,490 | 8.5 | 0.35 |
| 12/31/14 | | 13,768,265 | 58,779 | | | | | 1,666,522 | | | 3,720,581 | | |
| 01/01/15 | 01/01/15 | 13,769,665 | | December | | | Pounds Cr | | | | | | |
| 01/01/15 | | 13,770,654 | 2,389 | 73,249 | | | 0.805 | 1,667,388 | | | 3,722,195 | | |
| 01/12/15 | | 13,785,790 | 15,136 | | 8.2 | 0.65 | 0.597 | 1,674,271 | 7.8 | 1.36 | 3,733,018 | 7.3 | 0.20 |
| 01/31/15 | | 13,798,407 | 12,617 | | | | | 1,679,866 | | | 3,742,191 | | |
| 02/01/15 | 02/01/15 | 13,798,602 | | January | | | Pounds Cr | | | | | | |
| 02/01/15 | | 13,798,727 | 320 | 28,937 | | | 0.144 | 1,679,866 | | | 3,742,588 | | |
| 02/04/15 | | 13,800,127 | 1,400 | | 8.1 | 0.74 | 0.721 | 1,680,719 | 7.9 | 1.48 | 3,743,379 | 7.1 | 0.17 |
| 02/16/15 | | 13,804,943 | 4,816 | | | | | 1,682,892 | | | 3,746,962 | | |
| 02/20/15 | | 13,805,957 | 1,014 | | | | | 1,683,320 | | | 3,747,752 | | |
| 02/24/15 | | 13,806,974 | 1,017 | | | | | 1,683,745 | | | 3,748,542 | | |
| 02/28/15 | | 13,808,369 | 1,395 | | | | | 1,684,600 | | | 3,749,334 | | |
| 03/01/15 | 03/01/15 | 13,808,507 | | February | | | Pounds Cr | | | | | | |
| 03/01/15 | | 13,808,690 | 321 | 9,905 | | | 0.059 | 1,684,600 | | | 3,749,728 | | |
| 03/18/15 | | 13,815,075 | 6,385 | | 8.2 | 0.80 | 0.713 | 1,687,150 | 7.2 | 1.00 | 3,757,618 | 8.0 | 0.34 |
| 03/23/15 | | 13,815,928 | 853 | | | | | 1,688,046 | | | 3,759,604 | | |
| 03/25/15 | | 13,816,332 | 404 | | | | | 1,688,901 | | | 3,759,889 | | |
| 03/26/15 | | 13,816,697 | 365 | | | | | 1,689,329 | | | 3,760,382 | | |
| 04/01/15 | 04/01/15 | 13,822,714 | | March | | | Pounds Cr | | | | | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| 04/07/15 | | 13,823,071 | 6,374 | 14,207 | | | 0.084 | 1,694,467 | | | 3,765,931 | | |
| 04/15/15 | | 13,856,854 | 33,783 | | 7.4 | 0.92 | 0.858 | 1,704,938 | 7.7 | 1.92 | 3,792,943 | 7.0 | 0.25 |
| 04/30/15 | | 13,885,187 | 28,333 | | | | | 1,718,370 | | | 3,812,262 | | |
| 05/01/15 | 13,885,585 | | | April | | | Pounds Cr | | | | | | |
| 05/04/15 | | 13,889,467 | 4,280 | 62,871 | | | 0.449 | 1,720,520 | | | 3,815,063 | | |
| 05/13/15 | | 13,898,048 | 8,581 | | 8.0 | 0.60 | 0.554 | 1,724,812 | 7.8 | 0.92 | 3,820,667 | 8.1 | 0.37 |
| 05/18/15 | | 13,905,897 | 7,849 | | | | | 1,727,444 | | | 3,827,133 | | |
| 05/19/15 | | 13,909,365 | 3,468 | | | | | 1,728,740 | | | 3,830,304 | | |
| 05/23/15 | | 13,914,964 | 5,599 | | | | | 1,731,329 | | | 3,834,357 | | |
| 05/25/15 | | 13,920,921 | 5,957 | | | | | 1,733,052 | | | 3,839,818 | | |
| 05/28/15 | | 13,937,530 | 16,609 | | | | | 1,736,965 | | | 3,854,997 | | |
| 06/01/15 | 13,958,452 | | | May | | | Pounds Cr | | | | | | |
| 06/02/15 | | 13,967,174 | 29,644 | 72,867 | | | 0.336 | 1,746,201 | | | 3,878,793 | | |
| 06/03/15 | | 13,970,819 | 3,645 | | | | | 1,747,948 | | | 3,881,197 | | |
| 06/10/15 | | 13,986,712 | 15,893 | | 7.4 | 0.60 | 0.547 | 1,755,299 | 7.1 | 0.66 | 3,892,044 | 7.2 | 0.27 |
| 06/16/15 | | 14,018,102 | 31,390 | | | | | 1,765,062 | | | 3,917,649 | | |
| 06/19/15 | | 14,042,191 | 24,089 | | | | | 1,772,128 | | | 3,937,351 | | |
| 06/28/15 | | 14,066,780 | 24,589 | | | | | 1,781,741 | | | 3,956,167 | | |
| 06/30/15 | | 14,069,200 | 2,420 | | | | | 1,783,061 | | | 3,957,962 | | |
| 07/01/15 | 14,069,642 | | | June | | | Pounds Cr | | | | | | |
| 07/01/15 | | 14,069,914 | 714 | 111,190 | | | 0.506 | 1,783,061 | | | 3,957,962 | | |
| 07/08/15 | | 14,077,301 | 7,387 | | 7.7 | 0.37 | 0.351 | 1,787,623 | 7.2 | 0.68 | 3,963,593 | 7.5 | 0.23 |
| 07/14/15 | | 14,085,720 | 8,419 | | | | | 1,790,678 | | | 3,970,192 | | |
| 07/29/15 | | 14,114,029 | 28,309 | | | | | 1,804,056 | | | 3,993,110 | | |
| 08/01/15 | 14,115,454 | | | July | | | Pounds Cr | | | | | | |
| 08/05/15 | | 14,117,883 | 3,854 | 45,812 | | | 0.134 | 1,807,395 | | | 3,995,776 | | |
| 08/12/15 | | 14,131,529 | 13,646 | | | 0.41 | 0.371 | 1,812,749 | 7.2 | 0.51 | 4,006,460 | 7.1 | 0.19 |
| 08/17/15 | | 14,137,372 | 5,843 | | | | | 1,816,582 | | | 4,010,201 | | |
| 08/18/15 | | 14,138,406 | 1,034 | | | | | 1,817,349 | | | 4,011,060 | | |
| 08/27/15 | | 14,145,800 | 7,394 | | | | | 1,822,802 | | | 4,016,771 | | |
| 09/01/15 | 14,151,425 | | | August | | | Pounds Cr | | | | | | |
| 09/04/15 | | 14,155,393 | 9,593 | 35,971 | | | 0.111 | 1,828,088 | | | 4,025,183 | | |
| 09/09/15 | | 14,175,870 | 20,477 | | 7.6 | 0.23 | 0.208 | 1,833,613 | 7.2 | 0.72 | 4,041,266 | 7.0 | 0.14 |
| 09/18/15 | | 14,191,902 | 16,032 | | | | | 1,843,839 | | | 4,055,798 | | |
| 09/28/15 | | 14,211,188 | 19,286 | | | | | 1,852,031 | | | 4,069,063 | | |
| 09/29/15 | | 14,211,559 | 371 | | | | | 1,852,459 | | | 4,069,894 | | |
| 10/01/15 | 14,212,577 | | | September | | | Pounds Cr | | | | | | |
| 10/01/15 | | 14,212,781 | 1,222 | 61,152 | | | 0.106 | 1,853,738 | | | 4,071,365 | | |
| 10/07/15 | | 14,220,473 | 7,692 | | | 0.72 | 0.661 | 1,856,721 | 7.2 | 1.26 | 4,071,365 | 7.3 | 0.16 |
| 10/13/15 | | 14,226,617 | 6,144 | | | | | 1,859,329 | | | 4,079,148 | | |
| 10/21/15 | | 14,233,700 | 7,083 | | | | | 1,863,168 | | | 4,082,924 | | |
| 10/27/15 | | 14,241,197 | 7,497 | | | | | 1,865,726 | | | 4,088,517 | | |
| 11/01/15 | 14,260,606 | | | October | | | Pounds Cr | | | | | | |
| 11/02/15 | | 14,266,255 | 25,058 | 48,029 | | | 0.264 | 1,872,203 | | | 4,108,562 | | |
| 11/12/15 | | 14,288,543 | 22,288 | | 7.7 | 0.73 | 0.700 | 1,882,551 | 7.3 | 1.20 | 4,122,107 | 7.6 | 0.26 |
| 11/30/15 | | 14,334,387 | 45,844 | | | | | 1,898,090 | | | 4,155,815 | | |
| 12/01/15 | 14,336,677 | | | November | | | Pounds Cr | | | | | | |
| 12/01/15 | | 14,339,197 | 4,810 | 76,072 | | | 0.443 | 1,899,821 | | | 4,159,227 | | |
| 12/10/15 | | 14,364,604 | 25,407 | | 7.9 | 0.69 | 0.627 | 1,910,218 | 7.4 | 0.66 | 4,176,267 | 7.3 | 0.30 |
| 12/21/15 | | 14,458,622 | 94,018 | | | | | 1,937,179 | | | 4,246,823 | | |
| 01/01/16 | 14,487,544 | | | December | | | Pounds Cr | | | | | | |
| 01/01/16 | | 14,488,585 | 29,963 | 150,867 | | | 0.788 | 1,949,306 | | | 4,267,333 | | |
| 01/07/16 | | 14,499,288 | 10,703 | | | 7.9 | 0.62 | 1,954,033 | 7.4 | 0.87 | 4,274,451 | 7.6 | 0.40 |
| 02/01/16 | 14,532,622 | | | January | | | Pounds Cr | | | | | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| 02/01/16 | | 14,533,138 | 33,850 | 45,078 | | | 0.215 | 1,971,254 | | | 4,316,580 | | |
| 02/10/16 | | 14,562,012 | 28,874 | | 8.1 | 0.87 | 0.858 | 1,973,902 | 7.6 | 0.61 | 4,324,057 | 8.1 | 0.70 |
| 02/29/16 | | 14,601,368 | 39,356 | | | | | 1,982,872 | | | 4,359,110 | | |
| 03/01/16 | 14,602,713 | | | February | | | Pounds Cr | | | | | | |
| 03/01/16 | | 14,603,747 | 2,379 | 70,091 | | | 0.501 | 1,983,300 | | | 4,361,401 | | |
| 03/10/16 | | 14,625,282 | 21,535 | | 7.9 | 0.63 | 0.609 | 1,988,471 | 7.3 | 1.44 | 4,380,928 | 7.4 | 0.37 |
| 03/31/16 | | 14,728,685 | 103,403 | | | | | 2,017,845 | | | 4,463,804 | | |
| 04/01/16 | 14,733,540 | | | March | | | Pounds Cr | | | | | | |
| 04/02/16 | | 14,751,888 | 23,203 | 130,827 | | | 0.663 | 2,023,638 | | | 4,482,114 | | |
| 04/06/16 | | 14,770,034 | 18,146 | | 7.8 | 0.38 | 0.244 | 2,029,748 | 7.2 | 0.53 | 4,495,836 | 7.2 | 0.24 |
| 05/01/16 | 14,827,634 | | | April | | | Pounds Cr | | | | | | |
| 05/03/16 | | 14,834,742 | 64,708 | 94,094 | | | 0.191 | 2,057,059 | | | 4,539,976 | | |
| 05/12/16 | | 14,846,704 | 19,070 | | 7.6 | 0.70 | 0.645 | 2,062,615 | 7.2 | 0.47 | 4,547,811 | 7.1 | 0.69 |
| 05/17/16 | | 14,856,181 | 9,477 | | | | | 2,067,406 | | | 4,553,472 | | |
| 06/01/16 | 14,889,570 | | | May | | | Pounds Cr | | | | | | |
| 06/06/16 | | 14,902,417 | 46,236 | 61,936 | | | 0.333 | 2,086,371 | | | 4,585,701 | | |
| 06/08/16 | | 14,906,067 | 3,650 | | 7.5 | 0.43 | 0.406 | 2,088,096 | 7.1 | 0.69 | 4,587,959 | 7.1 | 0.25 |
| 06/19/16 | | 14,946,108 | 40,041 | | | | | 2,101,451 | | | 4,617,396 | | |
| 07/01/16 | 14,980,911 | | | June | | | Pounds Cr | | | | | | |
| 07/01/16 | | 14,983,214 | 37,106 | 91,341 | | | 0.309 | 2,113,474 | | | 4,646,051 | | |
| 07/07/16 | | 14,998,455 | 15,241 | | 7.4 | 0.50 | 0.430 | 2,119,487 | 7.0 | 0.87 | 4,656,766 | 7.1 | 0.20 |
| 07/31/16 | | 15,036,518 | 38,063 | | | | | 2,138,364 | | | 4,681,191 | | |
| 08/01/16 | 15,036,760 | | | July | | | Pounds Cr | | | | | | |
| 08/01/16 | | 15,037,244 | 726 | 55,849 | | | 0.200 | 2,138,788 | | | 4,682,282 | | |
| 08/11/16 | | 15,047,013 | 9,769 | | 7.4 | 0.61 | 0.583 | 2,144,319 | 7.1 | 0.98 | 4,687,103 | 7.1 | 0.12 |
| 08/24/16 | | 15,065,460 | 18,447 | | | | | 2,152,060 | | | 4,700,186 | | |
| 09/01/16 | 15,080,715 | | | August | | | Pounds Cr | | | | | | |
| 09/02/16 | | 15,081,239 | 15,779 | 43,955 | | | 0.213 | 2,159,787 | | | 4,709,523 | | |
| 09/08/16 | | 15,093,858 | 12,619 | | 7.2 | 0.41 | 0.355 | 2,164,508 | 7.1 | 0.60 | 4,718,876 | 6.9 | 0.17 |
| 09/15/16 | | 15,117,114 | 23,256 | | | | | 2,173,196 | | | 4,734,824 | | |
| 09/30/16 | | 15,161,513 | 44,399 | | | | | 2,190,037 | | | 4,766,164 | | |
| 10/01/16 | 15,162,610 | | | September | | | Pounds Cr | | | | | | |
| 10/01/16 | | 15,162,976 | 1,463 | 81,895 | | | 0.242 | 2,190,896 | | | 4,766,917 | | |
| 10/05/16 | | 15,170,280 | 7,304 | | 7.5 | 0.76 | 0.707 | 2,194,329 | 7.1 | 1.17 | 4,771,417 | 7.2 | 0.24 |
| 11/01/16 | 15,218,316 | | | October | | | Pounds Cr | | | | | | |
| 11/01/16 | | 15,218,916 | 48,636 | 55,706 | | | 0.328 | 2,214,974 | | | 4,803,706 | | |
| 11/09/16 | | 15,231,072 | 12,156 | | 7.7 | 0.58 | 0.550 | 2,221,415 | 7.3 | 1.02 | 4,810,434 | 7.2 | 0.17 |
| 11/30/16 | | 15,257,768 | 26,696 | | | | | 2,231,705 | | | 4,829,512 | | |
| 12/01/16 | 15,259,593 | | | November | | | Pounds Cr | | | | | | |
| 12/01/16 | | 15,262,085 | 4,317 | 41,277 | | | 0.189 | 2,233,005 | | | 4,832,948 | | |
| 12/08/16 | | 15,278,159 | 16,074 | | 7.7 | 0.90 | 0.832 | 2,240,348 | 7.4 | 1.41 | 4,843,138 | 7.3 | 0.26 |
| 01/01/17 | 15,320,273 | | | December | | | Pounds Cr | | | | | | |
| 01/05/17 | | 15,328,203 | 50,044 | 60,680 | | | 0.420 | | | | | | |
| 01/05/17 | | 15,328,203 | 0 | | | 1.00 | 0.895 | 2,259,750 | 7.5 | 1.44 | 4,878,940 | 7.4 | 0.47 |
| 01/31/17 | | 15,387,622 | 59,419 | | | | | 2,272,198 | | | 4,933,594 | | |
| 02/01/17 | 15,387,845 | | | January | | | Pounds Cr | | | | | | |
| 02/01/17 | | 15,388,387 | 765 | 67,572 | | | 0.504 | 2,272,625 | | | 4,933,971 | | |
| 02/09/17 | | 15,399,455 | 11,068 | | 7.8 | 0.56 | 0.542 | 2,277,351 | 7.5 | 0.99 | 4,941,836 | 7.1 | 0.13 |
| 03/01/17 | 15,452,749 | | | February | | | Pounds Cr | | | | | | |
| 03/08/17 | | 15,476,369 | 76,914 | 64,904 | | | 0.305 | | | | | | |
| 03/08/17 | | 15,476,369 | 0 | | 7.8 | 0.59 | 0.539 | 2,302,121 | 7.3 | 1.14 | 5,002,178 | 7.3 | 0.26 |
| 03/14/17 | | 15,497,125 | 20,756 | | | | | 2,309,539 | | | 5,016,906 | | |
| 03/25/17 | | 15,528,765 | 31,640 | | | | | 2,321,231 | | | 5,039,669 | | |
| 03/29/17 | | 15,542,291 | 13,526 | | | | | 2,325,638 | | | 5,049,699 | | |
| 04/01/17 | 15,558,808 | | | March | | | Pounds Cr | | | | | | |
| 04/02/17 | | 15,562,275 | 19,984 | 106,059 | | | 0.476 | 2,333,037 | | | 5,064,049 | | |
| 04/06/17 | | 15,582,526 | 20,251 | | 7.7 | 0.43 | 0.405 | 2,340,089 | 7.3 | 0.57 | 5,064,049 | 7.3 | 0.27 |
| 04/27/17 | | 15,676,954 | 94,428 | | | | | 2,372,953 | | | 5,146,405 | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 05/01/17 | 15,703,639 | | April | | | Pounds Cr | | | | | | |
| 05/04/17 | | 15,728,166 | 51,212 | 144,831 | | 0.488 | | | | | | | |
| 05/04/17 | | 15,728,166 | 0 | | 7.6 | 0.28 | 0.257 | 2,387,552 | 7.1 | 0.36 | 5,185,807 | 6.8 | 0.21 |
| | 06/01/17 | 15,796,047 | | May | | | Pounds Cr | | | | | | |
| 06/08/17 | | 15,812,038 | 83,872 | 92,408 | | 0.198 | | | | | | | |
| 06/08/17 | | 15,812,038 | 0 | | 7.5 | 0.35 | 0.325 | 2,421,837 | 7.1 | 0.36 | 5,243,312 | 7.2 | 0.16 |
| | 07/01/17 | 15,888,740 | | June | | | Pounds Cr | | | | | | |
| 07/01/17 | | 15,891,390 | 79,352 | 92,693 | | 0.251 | | | | | | | |
| 07/06/17 | | 15,902,647 | 11,257 | | 7.5 | 0.57 | 0.525 | 2,453,044 | 7.1 | 0.69 | 5,309,639 | 7.0 | 0.50 |
| 07/31/17 | | 15,945,154 | 42,507 | | | | | 2,472,011 | | | 5,337,122 | | |
| | 08/01/17 | 15,945,504 | | July | | | Pounds Cr | | | | | | |
| 08/01/17 | | 15,945,880 | 726 | 56,764 | | 0.248 | | 2,472,438 | | | 5,337,492 | | |
| 08/09/17 | | 15,958,437 | 12,557 | | 7.4 | 0.68 | 0.624 | 2,478,016 | 7.0 | 0.66 | 5,347,291 | 6.9 | 0.38 |
| | 09/01/17 | 15,992,489 | | August | | | Pounds Cr | | | | | | |
| 09/07/17 | | 16,001,926 | 43,489 | 46,985 | | 0.244 | | 2,472,438 | | | 5,337,492 | | |
| 09/07/17 | | 16,001,926 | 0 | | 7.4 | 0.50 | 0.488 | 2,497,770 | 7.1 | 0.68 | 5,375,524 | 6.9 | 0.14 |
| 09/29/17 | | 16,031,780 | 29,854 | | | | | 2,510,609 | | | 5,395,101 | | |
| | 10/01/17 | 16,034,956 | | September | | | Pounds Cr | | | | | | |
| 10/03/17 | | 16,035,404 | 3,624 | 42,467 | | 0.173 | | 2,512,318 | | | 5,397,338 | | |
| 10/05/17 | | 16,037,996 | 2,592 | | 7.5 | 0.44 | 0.410 | 2,513,176 | 7.1 | 1.14 | 5,399,232 | 6.7 | 0.12 |
| | 11/01/17 | 16,080,246 | | October | | | Pounds Cr | | | | | | |
| 11/07/17 | | 16,090,463 | 52,467 | 45,290 | | 0.155 | | 2,536,891 | | | 5,436,850 | | |
| 11/09/17 | | 16,092,667 | 2,204 | | 7.6 | 0.76 | 0.718 | 2,538,180 | 7.2 | 0.99 | 5,437,985 | 7.2 | 0.22 |
| 11/15/17 | | 16,098,379 | 5,712 | | | | | 2,541,643 | | | 5,441,055 | | |
| 11/30/17 | | 16,109,689 | 11,310 | | | | | 2,549,030 | | | 5,450,173 | | |
| | 12/01/17 | 16,110,147 | | November | | | Pounds Cr | | | | | | |
| 12/03/17 | | 16,112,117 | 2,428 | 29,901 | | 0.179 | | 2,550,308 | | | 5,451,687 | | |
| 12/07/17 | | 16,115,265 | 3,148 | | 7.4 | 0.82 | 0.755 | 2,551,590 | 7.4 | 1.29 | 5,453,973 | 7.4 | 0.20 |
| 12/14/17 | | 16,121,000 | 5,735 | | | | | 2,551,590 | | | 5,453,973 | | |
| 12/31/17 | | 16,131,936 | 10,936 | | | | | 2,560,147 | | | 5,464,203 | | |
| | 01/01/18 | 16,132,116 | | December | | | Pounds Cr | | | | | | |
| 01/01/18 | | 16,132,328 | 392 | 21,969 | | 0.138 | | 2,560,571 | | | 5,464,203 | | |
| 01/04/18 | | 16,133,697 | 1,369 | | -- | 0.78 | 0.734 | 2,560,993 | -- | 0.41 | 5,465,331 | -- | 0.04 |
| | 02/01/18 | 16,144,665 | | January | | | Pounds Cr | | | | | | |
| 02/01/18 | | 16,144,863 | 11,166 | 12,549 | | 0.077 | | 2,566,068 | | | 5,472,876 | | |
| 02/08/18 | | 16,147,315 | 2,452 | | 7.8 | 0.75 | 0.906 | 2,567,326 | 7.4 | 1.68 | 5,474,376 | 7.2 | 0.16 |
| 02/28/18 | | 16,155,889 | 8,574 | | | | | 2,570,306 | | | 5,481,207 | | |
| | 03/01/18 | 16,156,053 | | February | | | Pounds Cr | | | | | | |
| 03/01/18 | | 16,156,211 | 322 | 11,388 | | 0.086 | | 2,570,306 | | | 5,481,586 | | |
| 03/08/18 | | 16,163,746 | 7,535 | | 7.7 | 0.52 | 0.526 | 2,574,570 | 7.4 | 0.78 | 5,485,747 | 7.2 | 0.20 |
| 03/27/18 | | 16,183,153 | 19,407 | | | | | 2,585,717 | | | 5,495,623 | | |
| 03/31/18 | | 16,188,615 | 5,462 | | | | | 2,472,869* | | | 5,499,048 | | |
| | 04/01/18 | 16,189,199 | | March | | | Pounds Cr | | | | | | |
| 04/01/18 | | 16,190,057 | 1,442 | 33,146 | | 0.145 | | 2,473,316 | | | 5,500,204 | | |
| 04/05/18 | | 16,195,349 | 5,292 | | 7.7 | 0.60 | 0.585 | 2,476,332 | 7.3 | 0.84 | 5,502,874 | 7.4 | 0.35 |
| 04/10/18 | | 16,203,721 | 8,372 | | | | | 2,480,242 | | | 5,508,217 | | |
| 04/25/18 | | 16,302,239 | 98,518 | | | | | 2,508,161 | | | 5,586,326 | | |
| 04/30/18 | | 16,328,835 | 26,596 | | | | | 2,516,938 | | | 5,606,361 | | |
| | 05/01/18 | 16,330,212 | | April | | | Pounds Cr | | | | | | |
| 05/01/18 | | 16,331,044 | 2,209 | 141,013 | | 0.687 | | 2,517,809 | | | 5,607,864 | | |
| 05/04/18 | | 16,360,268 | 29,224 | | | | | 2,526,963 | | | 5,630,632 | | |
| 05/10/18 | | 16,409,694 | 49,426 | | 7.6 | 0.30 | 0.315 | 2,541,347 | 7.2 | 0.51 | 5,667,843 | 6.8 | 0.19 |
| 05/22/18 | | 16,428,757 | 19,063 | | | | | 2,547,991 | | | 5,681,939 | | |
| 05/24/18 | | 16,455,003 | 26,246 | | | | | 2,557,801 | | | 5,698,300 | | |
| 05/29/18 | | 16,462,967 | 7,964 | | | | | 2,562,178 | | | 5,702,537 | | |
| | 06/01/18 | 16,466,594 | | May | | | Pounds Cr | | | | | | |
| 06/01/18 | | 16,467,299 | 4,332 | 136,382 | | 0.358 | | 2,563,476 | | | 5,705,975 | | |
| 06/05/18 | | 16,476,100 | 8,801 | | | | | 2,566,515 | | | 5,712,597 | | |
| 06/07/18 | | 16,480,044 | 3,944 | | 7.6 | 0.38 | 0.382 | 2,568,258 | 7.1 | 0.53 | 5,715,101 | 7.3 | 0.21 |
| 06/30/18 | | 16,537,167 | 57,123 | | | | | 2,588,614 | | | 5,756,117 | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|-----|--|-------------------------------------|-----|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 07/01/18 | 16,537,690 | | June | | | Pounds Cr | | | | | | |
| 07/01/18 | | 16,538,238 | 1,071 | 71,096 | | 0.226 | 2,589,032 | | | 5,756,879 | | | |
| 07/05/18 | | 16,542,427 | 4,189 | | 7.6 | 0.31 | 0.311 | 2,591,176 | 7.2 | 0.57 | 5,759,920 | 7.1 | 0.16 |
| 07/12/18 | | 16,545,145 | 2,718 | | | | 2,594,639 | | | 5,763,368 | | | |
| 07/19/18 | | 16,553,309 | 8,164 | | | | 2,597,639 | | | 5,766,777 | | | |
| 07/31/18 | | 16,571,725 | 18,416 | | | | 2,604,452 | | | 5,779,752 | | | |
| | 08/01/18 | 16,571,996 | | July | | | Pounds Cr | | | | | | |
| 08/01/18 | | 16,572,495 | 770 | 34,306 | | 0.089 | 2,589,032 | | | 5,756,879 | | | |
| 08/08/18 | | 16,581,462 | 8,967 | | -- | 0.43 | 0.438 | 2,608,818 | 7.1 | 0.55 | 5,785,813 | 7.0 | 0.27 |
| 08/31/18 | | 16,637,913 | 56,451 | | | | 2,629,840 | | | 5,828,591 | | | |
| | 09/01/18 | 16,640,165 | | August | | | Pounds Cr | | | | | | |
| 09/01/18 | | 16,641,711 | 3,798 | 68,169 | | 0.125 | 2,631,151 | | | 5,831,336 | | | |
| 09/06/18 | | 16,695,169 | 53,458 | | 7.5 | 0.24 | 0.256 | 2,646,502 | 7.1 | 0.59 | 5,871,311 | 6.7 | 0.08 |
| 09/17/18 | | 16,734,724 | 39,555 | | | | 2,659,921 | | | 5,899,762 | | | |
| 09/18/18 | | 16,738,499 | 3,775 | | | | 2,660,806 | | | 5,903,277 | | | |
| 09/30/18 | | 16,775,825 | 37,326 | | | | 2,672,955 | | | 5,932,062 | | | |
| | 10/01/18 | 16,776,168 | | September | | | Pounds Cr | | | | | | |
| 10/01/18 | | 16,776,700 | 875 | 136,003 | | 0.290 | 2,673,387 | | | 5,932,454 | | | |
| 10/03/18 | | 16,785,853 | 9,153 | | 7.8 | 0.30 | 0.303 | 2,675,556 | 7.3 | 0.60 | 5,940,463 | 7.1 | 0.22 |
| 10/25/18 | | 16,899,216 | 113,363 | | | | 2,709,668 | | | 6,027,153 | | | |
| | 11/01/18 | 16,908,245 | | October | | | Pounds Cr | | | | | | |
| 11/01/18 | | 16,908,712 | 9,496 | 132,077 | | 0.333 | 2,713,560 | | | 6,033,788 | | | |
| 11/07/18 | | 16,921,099 | 12,387 | | 7.7 | 0.38 | 0.424 | 2,717,458 | 7.1 | 0.36 | 6,044,211 | 6.8 | 0.34 |
| 11/12/18 | | 16,936,140 | 15,041 | | | | 2,723,181 | | | 6,054,634 | | | |
| 11/14/18 | | 16,940,487 | 4,347 | | | | 2,725,362 | | | 6,057,406 | | | |
| 11/16/18 | | 16,944,318 | 3,831 | | | | 2,727,099 | | | 6,059,771 | | | |
| 11/19/18 | | 16,949,417 | 5,099 | | | | 2,729,266 | | | 6,063,298 | | | |
| | 12/01/18 | 16,964,903 | | November | | | Pounds Cr | | | | | | |
| 12/06/18 | | 16,972,133 | 22,716 | 56,658 | | 0.200 | 2,738,784 | | | 6,080,566 | | | |
| 12/06/18 | | 16,972,133 | 0 | | 8.0 | 0.52 | 0.521 | 2,738,784 | 7.4 | 0.53 | 6,080,566 | 7.2 | 0.45 |
| | 01/01/19 | 17,020,007 | | December | | | Pounds Cr | | | | | | |
| 01/04/19 | | 17,021,076 | 48,943 | 55,104 | | 0.239 | 2,757,483 | | | 6,116,420 | | | |
| 01/10/19 | | 17,051,054 | 29,978 | | 7.8 | 0.26 | 0.246 | 2,765,903 | 7.2 | 0.41 | 6,140,244 | 7.0 | 0.18 |
| | 02/01/19 | 17,085,876 | | January | | | Pounds Cr | | | | | | |
| 02/01/19 | | 17,086,762 | 35,708 | 65,869 | | 0.135 | 2,779,438 | | | 6,166,376 | | | |
| 02/07/19 | | 17,092,183 | 5,421 | | 8.0 | 0.36 | 0.398 | 2,781,163 | 7.5 | 0.37 | 6,170,668 | 7.3 | 0.35 |
| | 03/01/19 | 17,108,085 | | February | | | Pounds Cr | | | | | | |
| 03/01/19 | | 17,108,314 | 16,131 | 22,209 | | 0.074 | 2,786,817 | | | 6,183,118 | | | |
| 03/07/19 | | 17,112,149 | 3,835 | | 7.9 | 0.29 | 0.296 | 2,788,121 | 7.4 | -- | 6,186,219 | 7.4 | -- |
| 03/26/19 | | 17,201,867 | 89,718 | | | | 2,810,744 | | | 6,261,318 | | | |
| | 04/01/19 | 17,220,303 | | March | | | Pounds Cr | | | | | | |
| 04/02/19 | | 17,221,255 | 19,388 | 112,218 | | 0.277 | 2,818,615 | | | 6,274,417 | | | |
| 04/02/19 | | 17,221,255 | 0 | | 7.7 | 0.40 | 0.408 | 2,818,615 | 7.2 | 0.53 | 6,274,417 | 7.2 | 0.15 |
| 04/18/19 | | 17,270,735 | 49,480 | | | | 2,834,848 | | | 6,312,336 | | | |
| 04/30/19 | | 17,336,326 | 65,591 | | | | 2,855,668 | | | 6,362,011 | | | |
| | 05/01/19 | 17,338,042 | | April | | | Pounds Cr | | | | | | |
| 05/01/19 | | 17,340,509 | 4,183 | 117,739 | | 0.400 | 2,856,981 | | | 6,365,212 | | | |
| 05/09/19 | | 17,366,641 | 26,132 | | 7.8 | 0.43 | 0.441 | 2,866,635 | 7.2 | 0.39 | 6,383,940 | 7.2 | 0.66 |
| | 06/01/19 | 17,407,893 | | May | | | Pounds Cr | | | | | | |
| 06/06/19 | | 17,492,562 | 125,921 | 129,851 | | 0.477 | 2,856,981 | | | 6,365,212 | | | |
| 06/06/19 | | 17,492,562 | 0 | | 7.6 | 0.23 | 0.249 | 2,908,632 | 7.2 | 0.32 | 6,478,871 | 7.0 | 0.22 |
| 06/11/19 | | 17,502,105 | 9,543 | | | | 2,912,952 | | | 6,486,321 | | | |
| 06/18/19 | | 17,525,532 | 23,427 | | | | 2,920,258 | | | 6,503,730 | | | |
| | 07/01/19 | 17,581,030 | | June | | | Pounds Cr | | | | | | |
| 07/08/19 | | 17,613,923 | 88,391 | 113,137 | | 0.235 | 2,947,437 | | | 6,572,415 | | | |
| 07/10/19 | | 17,619,393 | 5,470 | | 7.6 | 0.25 | 0.229 | 2,949,581 | 7.1 | 0.48 | 6,576,370 | 7.0 | 0.12 |
| 07/22/19 | | 17,636,628 | 17,235 | | | | 2,956,444 | | | 6,590,064 | | | |
| 07/23/19 | | 17,644,137 | 7,509 | | | | 2,958,908 | | | 6,596,369 | | | |
| 07/26/19 | | 17,655,780 | 11,643 | | | | 2,961,918 | | | 6,602,890 | | | |
| 07/31/19 | | 17,662,536 | 6,756 | | | | 2,965,324 | | | 6,606,751 | | | |

TABLE 1
Influent - Effluent Compliance Summary

N.W. Mauthe Superfund Site
Appleton, Wisconsin
Terracon Project No. 58117057

| Date Actual | OUTFALL 001 | | | | | | | Manhole #1 | | | Manhole #2 | | |
|-------------|-------------------------------|-------------------------------------|--|-----------------------------|-----|--|--|-------------------------------------|------|--|-------------------------------------|------|--|
| | Date For Linear Interpolation | Metered Discharge Reading (gallons) | Gallons Discharged Between Meter Reading | Monthly Discharge (gallons) | pH | Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L] | Total Chromium Lab Analysis ¹ (mg/L) [Local Limit 7.0 mg/L] | Flow Totalizer #1 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) | Flow Totalizer #2 Reading (gallons) | pH | Hexavalent Chromium Hach Test Kit (mg/L) |
| | 08/01/19 | 17,662,953 | | July | | | Pounds Cr | | | | | | |
| 08/01/19 | | 17,663,650 | 1,114 | 81,923 | | 0.156 | 2,965,752 | | | 6,607,522 | | | |
| 08/07/19 | | 17,674,432 | 10,782 | | 7.7 | 0.37 | 2,969,223 | 7.3 | 0.38 | 6,615,773 | 7.5 | 0.30 | |
| 08/31/19 | | 17,712,769 | 38,337 | | | | 2,984,986 | | | 6,643,285 | | | |
| | 09/01/19 | 17,713,001 | | August | | | Pounds Cr | | | | | | |
| 09/01/19 | | 17,713,872 | 1,103 | 50,048 | | 0.160 | 2,985,412 | | | 6,644,057 | | | |
| 09/05/19 | | 17,719,385 | 5,513 | | 7.8 | 0.48 | 2,987,590 | 7.3 | 0.50 | 6,644,933 | 7.3 | 0.43 | |
| 09/18/19 | | 17,790,650 | 71,265 | | | | 3,009,066 | | | 6,701,147 | | | |
| 09/30/19 | | 17,829,959 | 39,309 | | | | 3,022,795 | | | 6,730,481 | | | |
| | 10/01/19 | 17,830,522 | | September | | | Pounds Cr | | | | | | |
| 10/01/19 | | 17,831,112 | 1,153 | 117,521 | | 0.479 | 2,985,412 | | | 6,644,057 | | | |
| 10/10/19 | | 17,895,551 | 64,439 | | 7.7 | 0.23 | 3,042,581 | 7.4 | 0.35 | 6,779,975 | 7.2 | 0.16 | |

Italicized red type metered discharge reading was calculated by linear interpolation to 12 midnight.

| Industrial User (Wastewater Discharge) Permit 18-21 Outfall 001 Effluent Limits | | |
|---|-------------------------------|--------------------------|
| pH Between 5.0 and 12.4 s.u. | Hexavalent Chromium <4.5 mg/L | Total Chromium <7.0 mg/L |

¹ Beginning in September 2018, the Total Chromium lab sample was not filtered. Previously, through August 2018, the sample was filtered (0.45 micron filter).

* On 3/31/18, the MH1 flowmeter face was blank. Upon replacing the batteries, the totalizer reading reverted to 2,472,869 gallons, a difference of -112,848 gallons from the previous known total.

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 ¹ (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 #18-21 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 | 0.0068**** | <.000032 | <.0024 | <.00005 | .00351**** | <.012 | <.0036 |
| Appleton | 03/18/99 | <.011 | <.002 | <.005 | <.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 | <.015 | <.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 | <.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 | <.00001 | 0.221 | <.0008 | <.005 | <.0006 | 0.0002 | <.025 | <.010 | NA |
| Appleton | 03/24/04 | <.050 | <.0026 | <.010 | 0.15 | <.0060 | <.0050 | <.16 | <.000025 | <.020 | <.010 | NA |
| Appleton | 11/09/04 | 0.0071 | <.0012 | <.00001 | 0.04 | 0.0008 | <.0005 | <.008 | <.0002 | 0.0013 | <.01 | NA |
| MCO | 08/08/05 | 0.023 | <.0035 | <.00003 | 0.039 | 0.0019 | <.0037 | <.0011 | <.000026 | <.0044 | 0.0024 | <.0005 |
| Appleton | 11/05/06 | 0.0052 | <.0012 | <.00001 | 0.088 | <.0005 | <.005 | <.0008 | <.0002 | 0.0017 | <.010 | NA |
| Appleton | 02/23/06 | 0.0021 | <.0012 | <.0001 | 0.08 | <.0005 | <.0005 | <.0008 | <.0002 | 0.0022 | <.010 | NA |
| MCO | 03/23/06 | <.20 | <.0076 | <.00074 | 0.32 | 0.0018 | 0.0043 | <.0034 | <.000026 | 0.0033 | <.020 | NA |
| Appleton | 06/27/06 | <.200 | <.0076 | <.00074 | 0.700 | 0.0016 | <.0094 | <.0034 | <.000072 | 0.0021 | <.020 | <.350 |
| Appleton | 10/05/06 | 0.037 | <.00011 | <.00001 | 4.575 | 0.0068 | .01 | <.001 | <.0002 | 0.0026 | <.010 | NA |
| Appleton | 03/22/07 | <.07 | <.07 | <.01 | 1.9 | 3.5 | <.004 | <.03 | <.0002 | <.04 | <.01 | NA |
| MCO | 04/02/07 | 0.0383 | 0.00024 | 0.000086 | 1.41 | 0.0041 | <.0094 | 0.00013 | <.00019 | 0.0035 | 0.009 | NA |
| Appleton | 12/04/07 | <.07 | <.001 | <.01 | 3.4 | <.01 | 0.008 | <.03 | <.0002 | <.04 | <.01 | 1.5 |
| Appleton | 01/16/08 | 0.21 | <.005 | <.01 | <.03 | 0.02 | 0.017 | .06 | 0.0003 | <.04 | 0.04 | NA |
| OMNNI | 04/08/08 | 0.0114 | 0.00043 | 0.00011 | 0.864 | 0.0043 | 0.014 J | 0.000095 J | <.00001 | 0.0024 | 0.0071 | 0.063 |
| Appleton | 08/19/08 | <.08 | <.001 | <.01 | 0.95 | <.01 | 0.005 | <.03 | 0.0002 | <.02 | <.01 | NA |
| Appleton | 03/31/09 | <.09 | <.012 | <.01 | 0.99 | <.01 | <.008 | <.05 | <.0002 | <.02 | <.01 | NA |
| OMNNI | 04/07/09 | <.0151 | 0.003 J | 0.00040 J | 0.767 | 0.0024 J | <.0060 | <.0014 | <.00010 | 0.0016 J | 0.0137 J | 0.84 |
| Appleton | 09/22/09 | <.08 | <.006 | <.01 | 2.3 | <.01 | <.008 | <.05 | <.0002 | <.02 | <.01 | NA |
| Appleton | 03/02/10 | <.06 | <.002 | <.01 | 1.6 | <.01 | <.008 | <.03 | <.0002 | <.01 | <.01 | NA |
| OMNNI | 04/06/10 | 0.0501 J | <.0014 | 0.00043 J | 1.16 | 0.0024 J | <.0061 | <.00075 | <.0001 | 0.0023 J | 0.0046 J | 1.3 |
| Appleton | 11/02/10 | <.10 | <.010 | <.01 | 0.71 | <.01 | <.008 | <.03 | <.0002 | <.01 | <.01 | NA |
| Appleton | 02/24/11 | <.08 | <.001 | <.01 | 1.5 | <.01 | 0.008 | <.04 | <.0002 | <.02 | <.01 | NA |
| OMNNI | 04/05/11 | 0.0725 J | 0.0025 J | <.00026 | 0.401 | 0.0028 J | <.0061 | <.0014 | <.00010 | 0.00053 J | 0.0023 J | 0.40 |
| Appleton | 10/26/11 | <.08 | <.005 | <.01 | 1.2 | <.01 | .007 | <.04 | <.0002 | <.02 | <.01 | NA |
| Appleton | 03/21/12 | <.11 | <.004 | <.01 | 1.3 | 0.01 | 0.007 | <.04 | <.0002 | <.02 | <.01 | NA |
| Terracon | 04/05/12 | <.0695 | <.0047 | <.00039 | 0.696 | 0.014 J | <.0061 | <.0014 | <.00010 | 0.001 J | <.0053 | 0.83 |
| Appleton | 10/04/12 | 0.0865 | 0.0051 | 0.00049 | 1.43 | 0.0028 J | 0.026 | 0.0022 | 0.0001 | 0.00019 J | <.0053 | NA |
| Terracon | 04/11/13 | 0.078 | <.004 | <.00048 | 0.431 | 0.0024 J | <.0038 | <.027 | <.00010 | 0.00013 J | <.0024 | 0.42 |
| Appleton | 04/17/13 | <.0714 | <.0042 | <.00048 | 0.279 | 0.0029 J | <.0038 | <.027 | <.00010 | 0.00062 J | <.0024 | NA |
| Appleton | 11/20/13 | <.0714 | <.0042 | <.00048 | 1.13 | 0.0018 J | 0.0044 J | <.027 | <.00010 | 0.00085 J | 0.0034 J | NA |
| Appleton | 04/15/14 | 0.119 J | <.0068 | <.001 | 0.27 | 0.0036 J | <.060 | <.0016 | <.00010 | <.0013 | <.0058 | NA |
| Terracon | 05/13/14 | 0.116 J | <.0068 | <.001 | 0.273 | 0.0034 J | <.060 | 0.0040 J | <.00010 | <.0013 | 0.0064 J | 0.28 |
| Appleton | 9/24/2014 | <.0655 | <.0068 | <.001 | 0.757 | <.0034 | <.010 | <.0016 | <.00010 | <.0013 | <.0058 | NA |
| Terracon | 4/15/2015 | 0.054 J | <.0072 | <.00060 | 0.858 | 0.0041 J | <.010 | <.0030 | <.00010 | <.0014 | 0.0026 J | 0.92 |
| Appleton | 6/3/2015 | <.0655 | <.0068 | <.001 | 0.504 | <.0034 | <.020 | <.0016 | <.00010 | 0.0013 J | <.0058 | NA |
| Appleton | 10/21/2015 | 0.105 J | <.0068 | <.0010 | 0.676 | <.0034 | <.010 | 0.0024 J | <.00010 | <.0013 | 0.0078 J | NA |
| Terracon | 5/12/2016 | 0.0637 J | <.0072 | <.00060 | 0.645 | <.0036 | <.0068 | <.0030 | <.00013 | 0.0018 J | <.0013 | 0.70 |
| Appleton | 5/17/2016 | <.090 | <.001 | <.010 | 0.530 | <.010 | <.007 | <.030 | <.0002 | <.020 | <.01 | NA |
| Appleton | 11/1/2016 | <.090 | <.010 | <.010 | 0.560 | <.010 | <.007 | <.030 | <.0002 | <.020 | <.010 | NA |
| Appleton | 4/27/2017 | <.060 | <.001 | <.010 | 0.370 | <.010 | 0.007 | <.030 | <.0002 | <.020 | <.010 | NA |
| Terracon | 6/8/2017 | <.0555 | <.0083 | <.0013 | 0.345 | <.0063 | <.0068 | <.0043 | <.00013 | <.0026 | <.0093 | 0.35 |
| Appleton | 11/9/2017 | <.060 | 0.001 | 0.010 | 0.770 | <.010 | <.007 | <.030 | <.0002 | <.020 | <.010 | NA |
| Appleton | 5/22/2018 | NA | <.015 | <.0006 | 0.319 | 0.005 | 0.010 | <.005 | <.0002 | 0.005 | <.002 | NA |
| Terracon | 6/7/2018 | 0.0713 J | <.00083 | <.0013 | 0.382 | <.0063 | <.014 | <.0043 | <.00013 | <.0026 | <.0093 | 0.38 |
| Appleton | 11/14/2018 | NA | 0.020 | 0.001 | 0.325 | 0.004 | <.009 | <.005 | <.0002 | 0.004 | 0.004 | NA |
| Appleton | 4/18/2019 | NA | <.015 | <.0006 | 0.519 | 0.005 | <.005 | <.009 | <.0002 | 0.005 | <.002 | NA |
| Terracon | 7/10/2019 | NA | 0.0091 J | <.0013 | 0.229 | <.0063 | 0.011 J | 0.006 J | <.00013 | 0.0029 J | <.0116 | 0.25 |
| Appleton | 9/18/2019 | NA | Results not yet available | | | | | | | | | NA |

J = Estimated concentration detected above the limit of detection and below the limit of quantitation

¹ Beginning in September 2018, the Total Chromium lab sample was not filtered. Previously, through August 2018, the sample was filtered (0.45 micron filter).

TABLE 3
Groundwater Elevations
N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| 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 |
| | 04/03/09 | 1.20 | | 803.46 |
| | 03/17/10 | 1.37 | | 803.29 |
| | 04/29/11 | 0.65 | | 804.01 |
| | 03/14/12 | 1.55 | | 803.11 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| W-2 | 04/29/13 | 1.68 | | 802.98 |
| | 04/21/14 | 0.80 | | 803.86 |
| | 09/16/14 | 7.19 | | 797.47 |
| | 04/13/15 | 1.55 | | 803.11 |
| | 03/30/16 | 1.41 | | 803.25 |
| | 03/28/17 | 1.32 | | 803.34 |
| | 04/10/18 | 4.66 | | 800.00 |
| | 09/25/19 | 4.10 | | 800.56 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| W-8 | 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 |
| | 04/03/09 | 6.16 | | 797.20 |
| | 03/17/10 | 6.14 | | 797.22 |
| | 04/29/11 | 5.92 | | 797.44 |
| | 03/14/12 | 6.09 | | 797.27 |
| | 04/29/13 | 6.46 | | 796.90 |
| | 04/21/14 | 6.20 | | 797.16 |
| | 09/16/14 | 6.27 | | 797.09 |
| | 04/13/15 | 6.09 | | 797.27 |
| | 03/30/16 | 6.08 | | 797.28 |
| | 03/28/17 | 5.94 | | 797.42 |
| | 04/10/18 | 5.99 | | 797.37 |
| | 09/25/19 | 6.12 | | 797.24 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| W-15 | 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 | - | | - |
| | 04/03/09 | 6.24 | | 797.18 |
| | 03/17/10 | 7.19 | | 796.23 |
| | 04/29/11 | 6.21 | | 797.21 |
| | 03/14/12 | 6.62 | | 796.80 |
| | 04/29/13 | 6.41 | | 797.35 |
| | 04/21/14 | ICE | | #VALUE! |
| | 09/16/14 | 6.40 | 803.96 | 797.56 |
| | 04/13/15 | 6.45 | | 797.51 |
| | 03/30/16 | 6.41 | | 797.55 |
| | 03/28/17 | 6.21 | | 797.75 |
| | 04/10/18 | 7.38 | | 796.58 |
| | 09/25/19 | 6.65 | | 797.31 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-101 | 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 |
| | 04/03/09 | 5.09 | | 802.50 |
| | 03/17/10 | 7.27 | | 800.32 |
| | 04/29/11 | 3.36 | | 804.23 |
| | 03/14/12 | 6.55 | | 801.04 |
| | 04/29/13 | 5.46 | | 802.13 |
| | 04/21/14 | 3.64 | 807.60 | 803.95 |
| | 09/16/14 | 5.37 | | 802.23 |
| | 04/13/15 | 3.80 | | 803.80 |
| | 03/30/16 | 4.95 | | 802.65 |
| | 03/28/17 | 4.65 | | 802.95 |
| | 04/10/18 | 5.14 | | 802.46 |
| | 09/25/19 | 5.68 | | 801.92 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations
N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-102 | 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 |
| | 12/17/02 | 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 |
| | 03/29/05 | 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 |
| | 04/03/09 | 23.48 | | 780.89 |
| | 03/17/10 | 23.44 | | 780.93 |
| | 04/29/11 | 23.18 | | 781.19 |
| | 03/14/12 | 23.48 | | 780.89 |
| | 04/29/13 | 21.05 | | 783.40 |
| | 04/21/14 | 21.33 | | 783.12 |
| | 09/16/14 | 23.83 | | 780.62 |
| | 04/13/15 | 20.85 | | 783.60 |
| | 03/30/16 | 22.22 | | 782.23 |
| | 03/28/17 | 21.78 | | 782.67 |
| | 04/10/18 | 25.02 | | 779.43 |
| | | | | |
| MW-103 | 02/01/97 | - | | 795.29 |
| | 05/01/97 | - | | 791.83 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-103 | 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 |
| | 09/22/08 | 9.62 | | 794.12 |
| | 04/03/09 | 8.22 | | 795.52 |
| | 09/01/09 | 9.78 | | 793.96 |
| | 03/17/10 | 8.07 | | 795.67 |
| | 09/09/10 | 8.66 | | 795.08 |
| | 04/29/11 | 4.32 | | 799.42 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
 Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-103 | 09/01/11 | 9.63 | | 794.11 |
| | 03/14/12 | 7.95 | | 795.79 |
| | 09/11/12 | 11.30 | | 792.44 |
| | 04/29/13 | 6.47 | | 797.27 |
| | 09/18/13 | 5.91 | | 797.83 |
| | 04/21/14 | 6.15 | | 797.59 |
| | 09/16/14 | 4.74 | | 799.00 |
| | 04/13/15 | 5.33 | | 798.41 |
| | 09/14/15 | 5.73 | | 798.01 |
| | 03/30/16 | 4.67 | | 799.07 |
| | 09/21/16 | 7.22 | | 796.52 |
| | 03/28/17 | 5.49 | | 798.25 |
| | 10/03/17 | 8.34 | | 795.40 |
| | 04/10/18 | 10.53 | | 793.21 |
| | 09/17/18 | 6.75 | | 796.99 |
| | 09/25/19 | 4.56 | | 799.18 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
 Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-104 | 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 |
| | 09/22/08 | 17.08 | | 790.20 |
| | 04/03/09 | 7.93 | | 799.35 |
| | 09/01/09 | 19.45 | | 787.83 |
| | 03/17/10 | 8.13 | | 799.15 |
| | 09/09/10 | 11.46 | | 795.82 |
| | 04/29/11 | 7.60 | | 799.68 |
| | 09/01/11 | 17.67 | | 789.61 |
| | 03/14/12 | 8.28 | | 799.00 |
| | 09/11/12 | 24.08 | | 783.20 |
| | 04/29/13 | 8.62 | | 798.66 |
| | 09/18/13 | 20.00 | | 787.28 |
| | 04/21/14 | 8.65 | | 798.63 |
| | 09/16/14 | 8.53 | | 798.75 |
| | 04/13/15 | 7.28 | | 800.00 |
| | 09/14/15 | 8.54 | | 798.74 |
| | 03/30/16 | 7.42 | | 799.86 |
| | 09/21/16 | 9.92 | | 797.36 |
| | 03/28/17 | 7.11 | | 800.17 |
| | 10/03/17 | 9.58 | | 797.70 |
| | 04/10/18 | 9.32 | | 797.96 |
| | 09/17/18 | 13.71 | | 793.57 |
| | 09/25/19 | 8.18 | | 799.10 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-105 | 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 |
| | 04/03/09 | 3.29 | | 800.17 |
| | 03/17/10 | 4.05 | | 799.41 |
| | 04/29/11 | 2.30 | | 801.16 |
| | 03/14/12 | 3.50 | | 799.96 |
| | 04/29/13 | 3.41 | | 800.55 |
| | 04/21/14 | 2.68 | | 801.28 |
| | 09/16/14 | 3.40 | | 800.56 |
| | 04/13/15 | 2.94 | | 801.02 |
| | 03/30/16 | 3.29 | | 800.67 |
| | 03/28/17 | 3.11 | | 800.85 |
| | 04/10/18 | 4.18 | | 799.78 |
| | | | | |
| MW-106 | 02/01/97 | - | | 794.75 |
| | 05/01/97 | - | | 797.23 |
| | 09/01/97 | - | | 796.91 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-106 | 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 |
| | 04/03/09 | 7.03 | | 796.80 |
| | 03/17/10 | 7.03 | | 796.80 |
| | 04/29/11 | 5.05 | | 798.78 |
| | 03/14/12 | 6.75 | | 797.33 |
| | 04/29/13 | 7.04 | | 797.04 |
| | 04/21/14 | Inaccessible | | #VALUE! |
| | 09/16/14 | 6.11 | 804.15 | 798.04 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
 Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-106 | 04/13/15 | 5.77 | 804.15 | 798.38 |
| | 03/30/16 | 5.72 | | 798.43 |
| | 03/28/17 | 3.88 | | 800.27 |
| | 04/10/18 | 7.31 | | 796.84 |
| | 09/25/19 | 6.22 | | 797.93 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-107 | 09/27/07 | 10.86 | | 798.20 |
| | 04/16/08 | 8.92 | | 800.14 |
| | 09/22/08 | 11.35 | | 797.71 |
| | 04/03/09 | 9.02 | | 800.04 |
| | 09/01/09 | 11.15 | | 797.91 |
| | 03/17/10 | 9.09 | | 799.97 |
| | 09/09/10 | 10.72 | | 798.34 |
| | 04/29/11 | 8.17 | | 800.89 |
| | 09/01/11 | 11.14 | | 797.92 |
| | 03/14/12 | 8.74 | | 800.32 |
| | 09/11/12 | 11.51 | | 797.55 |
| | 04/29/13 | 9.33 | | 799.76 |
| | 09/17/13 | 11.15 | | 797.94 |
| | 04/21/14 | 8.35 | | 800.74 |
| | 09/16/14 | 10.19 | | 798.90 |
| | 04/13/15 | 8.86 | | 800.23 |
| | 09/14/15 | 9.60 | | 799.49 |
| | 03/30/16 | 7.79 | | 801.30 |
| | 09/21/16 | 10.34 | | 798.75 |
| | 03/28/17 | 8.49 | | 800.60 |
| | 10/03/17 | 11.04 | | 798.05 |
| | 04/10/18 | 10.96 | | 798.13 |
| | 09/17/18 | 9.75 | | 799.34 |
| | 09/25/19 | 8.68 | | 800.41 |
| | | | | |
| 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 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-108 | 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 |
| | 04/03/09 | 6.04 | | 800.57 |
| | 03/17/10 | 6.32 | | 800.29 |
| | 04/29/11 | 6.76 | | 799.85 |
| | 03/14/12 | 6.39 | | 800.22 |
| | 04/29/13 | 6.58 | | 800.03 |
| | 04/21/14 | 6.64 | | 799.97 |
| | 09/16/14 | 6.57 | | 800.04 |
| | 04/13/15 | 6.42 | | 800.19 |
| | 03/30/16 | 6.02 | | 800.59 |
| | 03/28/17 | 6.51 | | 800.10 |
| | 04/10/18 | 6.92 | | 799.69 |
| | 09/25/19 | 6.40 | | 800.21 |
| | | | | |
| 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 |
| | 09/22/08 | 9.04 | | 801.48 |
| | 04/03/09 | 7.85 | | 802.67 |
| | 09/01/09 | 8.53 | | 801.99 |
| | 03/17/10 | 8.05 | | 802.47 |
| | 09/09/10 | 9.46 | | 801.06 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
 Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-109 | 04/29/11 | 7.39 | | 803.13 |
| | 09/01/11 | 9.54 | | 800.98 |
| | 03/14/12 | 7.71 | | 802.81 |
| | 09/11/12 | 8.99 | | 801.53 |
| | 04/29/13 | 8.92 | | 801.60 |
| | 09/17/13 | 8.29 | | 802.23 |
| | 04/21/14 | 7.76 | | 802.76 |
| | 09/16/14 | 8.09 | | 802.43 |
| | 04/13/15 | 7.71 | | 802.81 |
| | 09/14/15 | 8.20 | | 802.32 |
| | 03/30/16 | 7.18 | | 803.34 |
| | 09/21/16 | 9.64 | | 800.88 |
| | 03/28/17 | 7.67 | | 802.85 |
| | 10/03/17 | 9.60 | | 800.92 |
| | 04/10/18 | 7.92 | | 802.60 |
| | 09/17/18 | 9.29 | | 801.23 |
| | 09/25/19 | 8.37 | | 802.15 |
| | | | | |
| 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 |
| | 09/22/08 | 10.67 | | 799.14 |
| | 04/03/09 | 8.72 | | 801.09 |
| | 09/01/09 | 10.52 | | 799.29 |
| | 03/17/10 | 8.92 | | 800.89 |
| | 09/09/10 | 10.24 | | 799.57 |
| | 04/29/11 | 6.72 | | 803.09 |
| | 09/01/11 | 10.57 | | 799.24 |
| | 03/14/12 | 7.98 | | 801.83 |
| | 09/11/12 | 10.91 | | 798.90 |
| | 04/29/13 | 8.75 | | 801.06 |
| | 09/17/13 | 10.47 | | 799.34 |
| | 04/21/14 | 7.12 | | 802.69 |
| | 09/16/14 | 9.57 | | 800.24 |
| | 04/13/15 | 7.13 | | 802.68 |
| | 09/14/15 | 9.20 | | 800.61 |
| | 03/30/16 | 6.75 | | 803.06 |
| | 09/21/16 | 10.86 | | 798.95 |
| | 03/28/17 | 5.82 | | 803.99 |
| | 10/03/17 | 10.31 | | 799.50 |
| | 04/10/18 | 7.61 | | 802.20 |
| | 09/17/18 | 9.15 | | 800.66 |
| | 09/25/19 | 5.80 | | 804.01 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| 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 |
| | 09/22/08 | 10.03 | | 797.56 |
| | 04/03/09 | 5.68 | | 801.91 |
| | 09/01/09 | 9.95 | | 797.64 |
| | 03/17/10 | 6.17 | | 801.42 |
| | 09/09/10 | 8.83 | | 798.76 |
| | 04/29/11 | 5.25 | | 802.34 |
| | 09/01/11 | 9.33 | | 798.26 |
| | 03/14/12 | 6.11 | | 801.48 |
| | 09/11/12 | 12.61 | | 794.98 |
| | 04/29/13 | 6.61 | | 800.98 |
| | 09/18/13 | 10.80 | | 796.79 |
| | 04/21/14 | 5.65 | | 801.94 |
| | 09/16/14 | 7.66 | | 799.93 |
| | 04/13/15 | 5.79 | | 801.80 |
| | 09/14/15 | 8.10 | | 799.49 |
| | 03/30/16 | 5.65 | | 801.94 |
| | 09/21/16 | 9.43 | | 798.16 |
| | 03/28/17 | 5.28 | | 802.31 |
| | 10/03/17 | 9.17 | | 798.42 |
| | 04/10/18 | 6.58 | | 801.01 |
| | 09/17/18 | 7.76 | | 799.83 |
| | 09/25/19 | 6.10 | | 801.49 |
| 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 |
| | 09/22/08 | 9.29 | | 798.85 |
| | 04/03/09 | 6.85 | | 801.29 |
| | 09/01/09 | 9.32 | | 798.82 |
| | 03/17/10 | 7.87 | | 800.27 |
| | 09/09/10 | 8.57 | | 799.57 |
| | 04/29/11 | 3.69 | | 804.45 |
| | 09/01/11 | 9.19 | | 798.95 |
| | 03/14/12 | 3.49 | | 804.69 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| MW-112 | 09/11/12 | 10.57 | | 797.57 |
| | 04/29/13 | 6.11 | | 802.03 |
| | 09/17/13 | 9.72 | | 798.42 |
| | 04/21/14 | 3.58 | | 804.56 |
| | 09/16/14 | 8.34 | | 799.80 |
| | 04/13/15 | 3.73 | | 804.41 |
| | 09/14/15 | 8.50 | | 799.64 |
| | 03/30/16 | 3.86 | | 804.28 |
| | 09/21/16 | 9.16 | | 798.98 |
| | 03/28/17 | 3.64 | | 804.50 |
| | 10/03/17 | 9.70 | | 798.44 |
| | 04/10/18 | 4.19 | | 803.95 |
| | 09/17/18 | 6.95 | | 801.19 |
| | 09/25/19 | 3.40 | | 804.74 |
| | | | | |
| MW-113 | 06/21/06 | 9.69 | 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 |
| | 09/22/08 | 9.97 | | 798.27 |
| | 04/03/09 | 7.41 | | 800.83 |
| | 09/01/09 | 9.72 | | 798.52 |
| | 03/17/10 | 7.37 | | 800.87 |
| | 09/09/10 | 9.48 | | 798.76 |
| | 04/29/11 | 6.50 | | 801.74 |
| | 09/01/11 | 9.74 | | 798.50 |
| | 03/14/12 | 6.86 | | 801.38 |
| | 09/11/12 | 10.11 | | 798.13 |
| | 04/29/13 | 8.14 | | 800.10 |
| | 09/17/13 | 9.80 | | 798.44 |
| | 04/21/14 | 6.95 | | 801.29 |
| | 09/16/14 | 9.00 | | 799.24 |
| | 04/13/15 | 6.53 | | 801.71 |
| | 09/14/15 | 8.40 | | 799.84 |
| | 03/30/16 | 6.78 | | 801.46 |
| | 09/21/16 | 9.07 | | 799.17 |
| | 03/28/17 | 6.54 | | 801.70 |
| | 10/03/17 | 9.67 | | 798.57 |
| | 04/10/18 | 8.87 | | 799.37 |
| | 09/17/18 | 8.61 | | 799.63 |
| | 09/25/19 | 7.00 | | 801.24 |
| | | | | |
| PZ5 | 07/19/05 | 37.39 | 810.88 | 773.49 |

TABLE 3
Groundwater Elevations

N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| PZ5 | 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 |
| | 04/03/09 | 28.00 | | 782.88 |
| | 03/17/10 | 28.33 | | 782.55 |
| | 04/29/11 | 27.33 | | 783.55 |
| | 03/14/12 | 27.68 | | 783.20 |
| | 04/29/13 | 27.40 | | 783.48 |
| | 04/21/14 | 27.88 | | 783.00 |
| | 09/16/14 | 27.40 | | 783.48 |
| | 04/13/15 | 28.78 | | 782.10 |
| | 03/30/16 | 26.86 | | 784.02 |
| | 03/28/17 | 26.74 | | 784.14 |
| | 04/10/18 | 28.10 | | 782.78 |
| | 09/25/19 | 25.10 | | 785.78 |
| | | | | |
| PZ6 | 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 |
| | 04/03/09 | 29.15 | | 780.62 |
| | 03/17/10 | 29.72 | | 780.05 |
| | 04/29/11 | 28.37 | | 781.40 |
| | 03/14/12 | 28.85 | | 780.92 |
| | 04/29/13 | 28.40 | | 781.37 |
| | 04/21/14 | 28.91 | | 780.86 |
| | 09/16/14 | 28.80 | | 780.97 |
| | 04/13/15 | 30.00 | | 779.77 |
| | 03/30/16 | 28.04 | | 781.73 |
| | 03/28/17 | 27.91 | | 781.86 |
| | 04/10/18 | 29.29 | | 780.48 |
| | 09/25/19 | 27.43 | | 782.34 |
| | | | | |
| PZ7 | 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 |

TABLE 3
Groundwater Elevations
N.W. Mauthe Superfund Site - Appleton, WI
Terracon Project No. 58117057

| Well Name | Date Measured | Depth To Water (feet) | Reference Elevation (To Top PVC) (feet) | Groundwater Elevation (feet) |
|-----------|---------------|-----------------------|---|------------------------------|
| PZ7 | 04/03/09 | 23.76 | | 780.72 |
| | 03/17/10 | 24.33 | | 780.15 |
| | 04/29/11 | 23.27 | | 781.21 |
| | 03/14/12 | 23.70 | | 780.78 |
| | 04/29/13 | 24.19 | | 780.29 |
| | 04/21/14 | 23.94 | | 780.54 |
| | 09/16/14 | 22.65 | | 781.83 |
| | 04/13/15 | 23.21 | | 781.27 |
| | 03/30/16 | 21.35 | | 783.13 |
| | 03/28/17 | 21.49 | | 782.99 |
| | 04/10/18 | 22.07 | | 782.41 |
| | 09/25/19 | 21.67 | | 782.81 |
| | | | | |
| PZ8 | 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 |
| | 04/03/09 | 20.63 | | 783.72 |
| | 03/17/10 | 21.25 | | 783.10 |
| | 04/29/11 | 20.65 | | 783.70 |
| | 03/14/12 | 20.94 | | 783.41 |
| | 04/29/13 | 20.25 | | 784.10 |
| | 04/21/14 | 20.09 | | 784.26 |
| | 09/16/14 | 20.71 | | 783.64 |
| | 04/13/15 | 21.02 | | 783.33 |
| | 03/30/16 | 19.67 | | 784.68 |
| | 03/28/17 | 19.81 | | 784.54 |
| | 04/10/18 | 21.27 | | 783.08 |
| | 09/25/19 | 20.79 | | 783.56 |
| | | | | |

* 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, event.

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

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

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| W-2 | 02/20/97 | NR | 8.00 | 6.00 | 750 us | NA | NA | NA | NA |
| | 05/27/97 | NR | 7.74 | 10.10 | NA | NA | NA | NA | NA |
| | 09/18/97 | NR | 7.01 | 14.50 | 910 us | NA | NA | NA | NA |
| | 12/12/97 | NR | 7.33 | 9.50 | 820 us | NA | NA | NA | NA |
| | 03/25/98 | NR | 7.96 | 7.90 | 1235 us | NA | NA | NA | NA |
| | 06/10/98 | NR | 6.59 | 10.20 | 1057 us | NA | NA | NA | NA |
| | 10/27/98 | 4 | 7.93 | 14.80 | 1278 us | 1.40 | 119.00 | 12.00 | 0.00 |
| | 02/09/99 | 4 | 8.47 | 9.50 | 1278 us | 2.10 | 146.00 | 16.00 | 0.20 |
| | 06/08/99 | 4 | 7.20 | 14.60 | 1234 us | 1.00 | 85.00 | 11.20 | 1.00 |
| | 09/13/99 | 5.1 | 7.34 | 15.00 | 1254 us | 1.90 | (136.00) | 9.60 | 0.00 |
| | 12/15/99 | 4.8 | 7.77 | 11.80 | 1199 us | 1.50 | (231.00) | 4.80 | 0.00 |
| | 03/13/00 | 7 | 6.17 | 8.90 | 1278 us | 1.30 | 59.00 | 7.60 | 0.00 |
| | 06/22/00 | 4.4 | 7.86 | 12.10 | 1240 us | 1.50 | 59.00 | 7.60 | 0.00 |
| | 09/27/00 | 6.6 | 6.39 | 16.40 | 1140 us | 1.90 | (187.00) | 9.60 | 0.00 |
| | 12/19/00 | 5 | 7.66 | 9.50 | 1171 us | 1.85 | (161.00) | 11.20 | 0.00 |
| | 03/01/01 | 3.5 | 7.42 | 10.50 | 1084 us | 1.41 | (222.00) | 9.20 | 0.00 |
| | 06/19/01 | 7 | 7.81 | 15.60 | 1980 us | 1.10 | (18.00) | 8.40 | 0.00 |
| | 09/24/01 | 5 | 7.48 | 13.40 | 1712 us | 0.90 | (38.00) | 6.60 | 0.00 |
| | 12/05/01 | 5 | 7.51 | 10.20 | 1244 us | 1.10 | (71.00) | 9.60 | 0.00 |
| | 03/19/02 | 6 | 7.51 | 10.60 | 977 us | 1.10 | (210.00) | 13.20 | 0.00 |
| | 06/20/02 | 6 | 7.40 | 15.00 | 1870 us | 0.80 | (88.00) | 8.80 | 0.00 |
| | 09/18/02 | 5 | 7.18 | 14.80 | 1138 us | 1.00 | (99.00) | 10.40 | 0.00 |
| | 12/17/02 | 4 | 7.34 | 10.30 | 1187 us | 1.00 | (103.00) | 9.60 | 0.00 |
| | 03/24/03 | 4 | 7.30 | 10.30 | 1077 us | 1.00 | (310.00) | 10.00 | 0.00 |
| | 06/10/03 | 6 | 7.21 | 14.90 | 1620 us | 1.00 | (110.00) | 12.80 | 0.00 |
| | 09/10/03 | 4 | 7.09 | 14.60 | 1210 us | 0.80 | (111.00) | 8.80 | 0.00 |
| | 03/24/04 | 4.5 | 7.30 | 7.40 | 1210 us | EM | 6.00 | NA | 0.00 |
| | 03/29/05 | 4.5 | 7.20 | 6.30 | 1182 us | 3.40 | 85.00 | NA | 0.00 |
| | 03/23/06 | 7 | 6.60 | 10.50 | 2470 us | 2.65 | 191.00 | NA | 0.03 |
| | 03/27/07 | 4 | 7.4 | 9.0 | 1240 us | 8.0 | 243 | NA | 0.04 |
| | 04/16/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | 1.25 | 7.45 | 7.1 | 1276.0 µs | 0.69 | 126.7 | NA | 0.17 |
| | 04/14/15 | 4 | 5.88 | 8.94 | 6.14 mS/cm | 1.91 | (194.0) | NA | 2.44 |
| | 09/25/19 | 7 | 6.91 | 13.51 | 1.475 mS/cm | 0.36 | (70.0) | NA | 1.90 |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| W-8 | 02/20/97 | NR | 8.20 | 7.50 | 1000 us | NA | NA | NA | NA |
| | 05/27/97 | NR | 7.30 | 10.40 | | NA | NA | NA | NA |
| | 09/18/97 | NR | 7.07 | 17.00 | 1250 us | NA | NA | NA | NA |
| | 12/12/97 | NR | 7.32 | 11.20 | 1090 us | NA | NA | NA | NA |
| | 03/25/98 | NR | 7.34 | 7.90 | 1590 us | NA | NA | NA | NA |
| | 06/10/98 | NR | 6.95 | 11.50 | 1407 us | NA | NA | NA | NA |
| | 10/27/98 | 5 | 7.42 | 16.70 | 1459 us | 1.30 | 97.00 | 14.40 | 0.20 |
| | 02/09/99 | 3.9 | 8.08 | 11.20 | 1386 us | 1.30 | 21.00 | 8.00 | 2.40 |
| | 06/08/99 | 5.5 | 7.23 | 14.80 | 1283 us | 1.80 | 85.00 | 14.00 | 5.60 |
| | 09/13/99 | 5.2 | 7.12 | 16.30 | 1363 us | 1.70 | (143.00) | 14.40 | 1.60 |
| | 12/15/99 | 5.1 | 7.25 | 10.30 | 1375 us | 0.90 | (288.00) | 14.40 | 1.20 |
| | 03/13/00 | 5 | 7.06 | 8.80 | 1277 us | 1.10 | (33.00) | 8.40 | 1.00 |
| | 06/22/00 | 5 | 8.58 | 14.60 | 1177 us | 1.97 | (120.00) | 6.80 | 0.00 |
| | 09/27/00 | 6 | 7.60 | 18.10 | 1098 us | 1.50 | (178.00) | 10.00 | 0.00 |
| | 12/19/00 | 4 | 7.67 | 8.30 | 1227 us | 1.14 | (267.00) | 11.60 | 0.00 |
| | 03/01/01 | 5 | 7.51 | 11.10 | 1175 us | 1.20 | (311.00) | 11.20 | 0.00 |
| | 06/19/01 | 6 | 7.93 | 14.80 | 1310 us | 0.80 | (24.00) | 6.20 | 0.00 |
| | 09/24/01 | 6 | 7.37 | 13.10 | 1177 us | 0.40 | 4.00 | 6.40 | 0.00 |
| | 12/05/01 | 5 | 7.30 | 10.40 | 1288 us | 1.00 | (163.00) | 12.40 | 0.00 |
| | 03/19/02 | 6 | 7.44 | 10.90 | 1044 us | 1.30 | (280.00) | 11.20 | 0.00 |
| | 06/20/02 | 6 | 7.51 | 14.20 | 1240 us | 0.80 | (90.00) | 6.20 | 0.00 |
| | 09/18/02 | 5 | 7.31 | 15.60 | 1221 us | 1.30 | (104.00) | 14.60 | 1.00 |
| | 12/17/03 | 3 | 7.28 | 10.60 | 1,155 | 1.10 | (172.00) | 12.40 | 0.40 |
| | 03/24/03 | 5 | 7.18 | 10.60 | 1131 us | 0.80 | (342.00) | 11.20 | 0.00 |
| | 06/10/03 | 4 | 7.30 | 15.00 | 1133 us | 0.80 | (121.00) | 8.80 | 0.00 |
| | 09/10/03 | 5 | 7.22 | 15.00 | 1240 us | 1.00 | (175.00) | 11.60 | 0.80 |
| | 03/24/04 | 4.3 | 7.40 | 7.80 | 755 us | EM | (47.00) | NA | 0.00 |
| | 03/29/05 | 4 | 7.10 | 7.80 | 1743 us | 3.43 | 87.00 | NA | 0.00 |
| | 03/23/06 | 4 | 7.20 | 8.30 | 2560 us | 4.00 | 227.00 | NA | 0.00 |
| | 03/27/07 | 3 | 7.3 | 10.3 | 1438 us | 6.71 | 237 | NA | 0.03 |
| | 04/16/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | 1.25 | 7.52 | 8.5 | 1510.0 µS/cm | 3.32 | 222 | NA | 0.03 |
| | 04/13/15 | 1.5 | 6.55 | 8.49 | 4.74 mS/cm | 5.92 | 138 | NA | <0.0129 |
| | 09/25/19 | 5.5 | 7.13 | 16.96 | 1.07 mS/cm | 0.00 | 108 | NA | <0.0296 |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| W-15 | 02/20/97 | NR | 8.15 | 9.00 | 920 us | NA | NA | NA | NA |
| | 05/27/97 | NR | 7.66 | 10.00 | NA | NA | NA | NA | NA |
| | 09/18/97 | NR | 7.22 | 16.00 | 1300 us | NA | NA | NA | NA |
| | 12/12/97 | NR | 7.18 | 10.40 | 1180 us | NA | NA | NA | NA |
| | 03/25/98 | NR | 7.70 | 8.40 | 1450 us | NA | NA | NA | NA |
| | 06/10/98 | NR | 6.46 | 11.60 | 1496 us | NA | NA | NA | NA |
| | 10/27/98 | 4 | 7.27 | 16.00 | 1551 us | 0.80 | 137.00 | 14.40 | 0.00 |
| | 02/09/99 | 2.6 | 8.07 | 10.00 | 1418 us | 1.30 | 7.00 | 12.00 | 0.60 |
| | 06/08/99 | 4.5 | 7.54 | 16.70 | 1465 us | 1.50 | 75.00 | 12.00 | 1.40 |
| | 09/13/99 | 3.6 | 7.18 | 17.60 | 1647 us | 1.90 | (137.00) | 10.40 | 0.80 |
| | 12/15/99 | 3.3 | 7.52 | 11.70 | 1544 us | 1.50 | (281.00) | 12.40 | 1.00 |
| | 03/13/00 | 4 | 7.14 | 8.90 | 1266 us | 1.40 | (19.00) | 7.60 | 0.40 |
| | 06/22/00 | 3 | 8.22 | 14.90 | 1546 us | 1.63 | 36.00 | 7.30 | 0.00 |
| | 09/27/00 | 5 | 5.43 | 17.40 | 1711 us | 1.30 | (41.00) | 12.40 | 0.00 |
| | 12/19/00 | 3 | 7.55 | 8.90 | 1628 us | 3.23 | (305.00) | 15.20 | 1.60 |
| | 03/01/01 | 4 | 7.43 | 10.90 | 1435 us | 2.10 | (381.00) | 16.00 | 0.80 |
| | 06/19/01 | 5 | 8.18 | 14.80 | 1380 us | 1.40 | (64.00) | 6.00 | 0.00 |
| | 09/24/01 | 5 | 7.22 | 12.60 | 1160 us | 1.00 | (49.00) | 8.00 | 0.00 |
| | 12/05/01 | 3 | 7.28 | 9.90 | 1544 us | 2.00 | (280.00) | 12.80 | 1.20 |
| | 03/19/02 | 5 | 7.58 | 10.30 | 1284 us | 1.80 | (318.00) | 12.20 | 0.40 |
| | 06/20/02 | 5 | 8.00 | 14.60 | 1280 us | 1.00 | (180.00) | 12.40 | 0.00 |
| | 09/18/02 | 5 | 7.20 | 16.30 | 1399 us | 1.60 | (152.00) | 13.60 | 0.40 |
| | 12/17/02 | 3 | 7.18 | 10.00 | 1234 US | 2.00 | (220.00) | 8.80 | 1.00 |
| | 03/24/03 | 3 | 7.22 | 10.60 | 1294 us | 1.40 | (330.00) | 12.40 | 0.20 |
| | 06/10/03 | 5 | 7.76 | 14.80 | 1148 us | 1.20 | (174.00) | 11.20 | 0.00 |
| | 09/10/03 | 5 | 7.18 | 15.40 | 1317 us | 1.20 | (170.00) | 10.40 | 0.60 |
| | 03/24/04 | 3.7 | 7.30 | 8.40 | 1516 us | EM | (32.00) | NA | 0.00 |
| | 03/29/05 | 3 | 7.00 | 8.20 | 2240 us | 3.81 | 85.00 | NA | 0.00 |
| | 03/23/06 | 4 | 7.00 | 7.50 | 1952 us | 4.40 | 236.00 | NA | 0.00 |
| | 03/28/07 | 3 | 7.3 | 9.0 | 1420 us | 3.28 | 213 | NA | 0.01 |
| | 04/16/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | 1.25 | 7.43 | 7.9 | 1713.0 µs | 3.68 | 219 | NA | 0.00 |
| | 04/13/15 | 1.5 | 6.38 | 11.85 | 5.29 mS/cm | 8.82 | 140 | NA | <0.0129 |
| | 09/25/19 | 4.0 | 7.46 | 18.77 | 0.780 mS/cm | 0.39 | 85 | NA | <0.0296 |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-101 | 02/20/97 | NR | 7.12 | 8.00 | 1400 us | NA | NA | NA | NA |
| | 05/27/97 | NR | 7.56 | 12.90 | NA | NA | NA | NA | NA |
| | 09/18/97 | NR | 6.54 | 14.00 | 1380 us | NA | NA | NA | NA |
| | 12/12/97 | NR | 6.64 | 11.40 | 1390 us | NA | NA | NA | NA |
| | 03/25/98 | NR | 7.58 | 10.50 | 2142 us | NA | NA | NA | NA |
| | 06/10/98 | NR | 6.29 | 11.50 | 2116 us | NA | NA | NA | NA |
| | 10/27/98 | 9 | 7.13 | 14.10 | 2.27 ms | 0.50 | 116.00 | 12.00 | 0.00 |
| | 02/09/99 | 7 | 8.11 | 12.70 | 2.11 ms | 1.10 | 165.00 | 8.80 | 0.20 |
| | 06/08/99 | 6 | 7.05 | 15.00 | 2.17 ms | 0.70 | 161.00 | 8.00 | 0.20 |
| | 09/13/99 | 5.9 | 7.25 | 14.90 | 2.12 ms | 0.90 | (125.00) | 13.60 | 0.00 |
| | 12/15/99 | 6 | 8.71 | 12.70 | 2.06 ms | 1.00 | (262.00) | 8.80 | 0.00 |
| | 03/13/00 | 7 | 6.34 | 11.60 | 1939 us | 1.10 | 44.00 | 8.00 | 0.00 |
| | 06/22/00 | 5 | 7.73 | 15.20 | 2.25 ms | 0.96 | 50.00 | 8.00 | 0.00 |
| | 09/27/00 | 8.5 | 6.80 | 15.50 | 2.18 ms | 0.70 | 3.00 | 12.80 | 0.00 |
| | 12/19/00 | 10.5 | 7.12 | 11.90 | 2.18 ms | 1.48 | (233.00) | 14.40 | 0.00 |
| | 03/01/01 | 8 | 7.41 | 11.00 | 2.31 ms | 1.32 | (283.00) | 12.20 | 0.00 |
| | 06/19/01 | 9 | 8.04 | 13.60 | 1265 us | 1.00 | 10.00 | 7.20 | 0.00 |
| | 09/24/01 | 8 | 7.79 | 13.40 | 1304 us | 1.00 | (11.00) | 11.20 | 0.00 |
| | 12/05/01 | 9 | 7.40 | 11.20 | 2240 us | 1.20 | (304.00) | 8.40 | 0.00 |
| | 03/19/02 | 9 | 7.36 | 10.80 | 1984 us | 1.40 | (210.00) | 12.20 | 0.00 |
| | 06/20/02 | 10 | 7.93 | 13.80 | 1190 us | 0.80 | (30.00) | 14.00 | 0.00 |
| | 09/18/02 | 10 | 7.24 | 15.00 | 2248 us | 0.80 | (113.00) | 8.80 | 0.00 |
| | 12/17/02 | 8 | 7.27 | 11.40 | 1988 us | 1.60 | (334.00) | 8.40 | 0.00 |
| | 03/24/03 | 9 | 7.45 | 11.10 | 1033 us | 0.60 | (190.00) | 11.20 | 0.00 |
| | 06/10/03 | 10 | 7.66 | 14.00 | 1121 us | 1.00 | (61.00) | 13.20 | 0.00 |
| | 09/10/03 | 8 | 7.30 | 14.80 | 2104 us | 0.80 | (124.00) | 7.20 | 0.00 |
| | 03/24/04 | 6.7 | 6.90 | 10.10 | 3160 us | EM | (69.00) | NA | 0.00 |
| | 03/29/05 | 6 | 6.60 | 12.12 | 4730 us | 1.27 | 83.00 | NA | 0.00 |
| | 03/23/06 | 7 | 6.60 | 10.50 | 2470 us | 2.65 | 191.00 | NA | 0.03 |
| | 03/27/07 | 5 | 6.70 | 13.3 | 2440 us | 3.64 | 187 | NA | 0.00 |
| | 04/16/08 | 1.25 | 6.94 | 10.5 | NA | 1.62 | 309 | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | 1.5 | 6.88 | 7.9 | 8.83 ms | 2.23 | NA | NA | NA |
| | 03/17/10 | 1.5 | 6.90 | 9.1 | 7.30 ms | 2.76 | 263 | NA | NA |
| | 04/29/11 | 1.25 | 7.06 | 10.2 | 5920 µs | 2.57 | 293 | NA | 0.00 |
| | 03/16/12 | 2 | 6.20 | 10.1 | 0.47 S/m | 1.90 | 212 | NA | NA |
| | 04/29/13 | 2.5 | 9.59 | 9.3 | 6.33 ms | 2.09 | (74.40) | NA | NA |
| | 04/21/14 | 3.5 | 6.84 | 7.4 | 2.97 mS/cm | 3.99 | 258.6 | NA | NA |
| | 04/14/15 | 2 | 5.87 | 8.17 | 19.5 mS/cm | 5.42 | 144 | NA | <0.0129 |
| | 03/30/16 | 1.5 | 6.86 | 8.90 | 4.56 mS/cm | 2.43 | 58.7 | NA | NA |
| | 03/29/17 | 2 | 8.89 | 10.30 | 4.951 mS/cm | 2.28 | 221.2 | NA | NA |
| | 04/11/18 | 1.5 | 6.74 | 9.90 | 5.369 mS/cm | 2.65 | 133.8 | NA | NA |
| | 09/25/19 | 1.5 | 6.60 | 18.22 | 7.027 mS/cm | 0.38 | 84.5 | NA | <0.0296 |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | 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 | 8.07 | 13.00 | 1197 us | 1.50 | 103.00 | 17.60 | 0.40 |
| | 02/09/99 | 0.5 | 7.48 | 11.00 | 1164 us | 1.00 | 0.33 | 14.40 | 0.00 |
| | 06/08/99 | 0.5 | 7.89 | 18.60 | 1226 us | 1.00 | 151.00 | 4.80 | 0.80 |
| | 09/13/99 | 0.5 | 7.84 | 13.30 | 1208 us | 1.20 | (246.00) | 10.00 | 1.20 |
| | 12/15/99 | 0.5 | 7.78 | 9.00 | 1152 us | 1.60 | (288.00) | 10.80 | 1.00 |
| | 03/13/00 | 0.5 | 6.74 | 9.70 | 1096 us | 1.20 | (260.00) | 6.80 | 0.00 |
| | 06/22/00 | 0.5 | 8.01 | 12.30 | 1233 us | 0.53 | (13.00) | 6.00 | 0.00 |
| | 09/27/00 | 0.5 | 8.25 | 12.50 | 1182 us | 1.90 | (241.00) | 9.20 | 0.00 |
| | 12/19/00 | 0.5 | 7.59 | 8.70 | 1126 us | 1.27 | (454.00) | 11.60 | 0.00 |
| | 03/01/01 | 0.5 | 7.30 | 10.90 | 1321 us | 1.02 | (521.00) | 9.20 | 0.00 |
| | 06/19/01 | 0.5 | 8.64 | 13.20 | 1944 us | 0.60 | 35.00 | 6.40 | 0.00 |
| | 09/24/01 | 0.5 | 7.63 | 13.40 | 1622 us | 0.80 | 18.00 | 7.20 | 0.00 |
| | 12/05/01 | 0.5 | 7.59 | 9.40 | 1233 us | 0.80 | (110.00) | 12.40 | 0.00 |
| | 03/19/02 | 0.5 | 7.41 | 10.80 | 1143 us | 0.90 | (503.00) | 9.20 | 0.50 |
| | 06/20/02 | 0.5 | 8.18 | 13.80 | 1720 us | 0.40 | 4.00 | 9.60 | 0.00 |
| | 09/18/02 | 0.5 | 7.04 | 13.50 | 1318 us | 1.00 | (212.00) | 10.80 | 1.00 |
| | 12/17/02 | 0.5 | 7.55 | 10.00 | 1186 us | 0.60 | (94.00) | 11.20 | 0.00 |
| | 03/24/03 | 0.5 | 7.38 | 10.40 | 972 us | 0.40 | (621.00) | 8.40 | 0.00 |
| | 06/10/03 | 0.5 | 8.01 | 13.80 | 1530 us | 0.40 | (18.00) | 8.60 | 0.00 |
| | 09/10/03 | 0.5 | 7.10 | 14.00 | 1313 us | 0.80 | (211.00) | 8.00 | 0.80 |
| | 03/24/04 | 2.7 | 7.20 | 12.80 | 1112 us | EM | (26.00) | NA | 0.00 |
| | 03/29/05 | 3 | 7.10 | 12.70 | 1199 us | 2.71 | 85.00 | NA | 0.00 |
| | 03/23/06 | 2 | 7.50 | 9.20 | 1234 us | 5.06 | 283.00 | NA | 0.00 |
| | 03/27/07 | 2 | 7.2 | 12.5 | 1093 us | 1.73 | 86 | NA | 0.29 |
| | 04/16/08 | 1 | 7.10 | 14.1 | NA | 2.64 | 179.9 | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | 1 | 7.46 | 10.2 | 1275 us | 4.90 | NA | NA | NA |
| | 03/17/10 | 1 | 7.35 | 11.6 | 1295 us | 3.35 | 91.1 | NA | NA |
| | 04/29/11 | 1.25 | 7.40 | 11.5 | 1204 us | 2.33 | 234 | NA | 0.09 |
| | 03/14/12 | 1.5 | 6.50 | 12.7 | 0.12 S/m | 5.50 | 97 | NA | NA |
| | 04/29/13 | 2.5 | 7.35 | 10.7 | 0.81 ms | 4.15 | (31.20) | NA | NA |
| | 04/21/14 | 1 | 7.18 | 11.3 | 0.65 mS/cm | 6.83 | 182.5 | NA | NA |
| | 04/13/15 | 1.5 | 6.51 | 14.57 | 2.59 mS/cm | 7.01 | 133 | NA | <0.0129 |
| | 03/30/16 | 1.5 | 7.20 | 9.70 | 0.64 mS/cm | 4.87 | 52.6 | NA | NA |
| | 03/29/17 | 2 | 8.68 | 9.80 | 0.717 mS/cm | 5.84 | 158.8 | NA | NA |
| | 04/11/18 | 1.5 | 7.06 | 10.10 | 0.846 mS/cm | 1.30 | (33.70) | NA | NA |
| | 09/25/19 | Unable to sample. Bent bolt over well | | | | | | | |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | 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 | 7.66 | 12.70 | 1566 us | 0.70 | 147.00 | 12.00 | 0.20 |
| | 02/09/99 | 7.8 | 7.48 | 9.90 | 1443 us | 1.40 | 53.00 | 11.20 | 0.80 |
| | 06/08/99 | 9.5 | 7.42 | 13.90 | 1350 us | 0.70 | 109.00 | 7.20 | 0.00 |
| | 09/13/99 | 4.1 | 7.41 | 12.90 | 985 us | 1.60 | (165.00) | 12.00 | 0.00 |
| | 12/15/99 | 4.6 | 7.82 | 10.60 | 2.58 ms | 1.40 | (294.00) | 10.80 | 0.00 |
| | 03/13/00 | 4 | 6.57 | 9.40 | 1292 us | 1.00 | 76.00 | 8.40 | 0.40 |
| | 06/22/00 | 4 | 8.43 | 11.50 | 1354 us | 0.99 | (90.00) | 6.00 | 0.00 |
| | 09/27/00 | 11 | 7.48 | 13.70 | 1131 us | 1.40 | (302.00) | 7.60 | 0.00 |
| | 12/19/00 | 9 | 7.90 | 6.60 | 1063 us | 1.56 | (344.00) | 9.20 | 0.40 |
| | 03/01/01 | 8.5 | 7.68 | 11.20 | 1160 us | 1.88 | (374.00) | 8.00 | 0.60 |
| | 06/19/01 | 13 | 7.81 | 14.10 | 1848 us | 1.10 | (28.00) | 7.40 | 0.00 |
| | 09/24/01 | 2 | 7.32 | 12.70 | 1743 us | 1.00 | (47.00) | 12.00 | 0.00 |
| | 12/05/01 | 11 | 7.18 | 9.00 | 1121 us | 1.40 | (291.00) | 10.80 | 0.60 |
| | 03/19/02 | 11 | 7.60 | 11.40 | 1050 us | 1.50 | (311.00) | 10.00 | 0.40 |
| | 06/20/02 | 12 | 7.47 | 14.40 | 1830 us | 0.80 | (62.00) | 10.80 | 0.00 |
| | 09/18/02 | 10 | 7.18 | 13.00 | 748 us | 1.40 | (170.00) | 11.20 | 0.00 |
| | 12/17/02 | 8 | 7.22 | 9.60 | 1134 us | 1.20 | (284.00) | 10.00 | 0.40 |
| | 03/24/03 | 11 | 7.54 | 11.00 | 1262 us | 1.20 | (320.00) | 10.00 | 0.60 |
| | 06/10/03 | 10 | 7.13 | 14.10 | 1644 us | 0.60 | (80.00) | 10.00 | 0.20 |
| | 09/10/03 | 10 | 7.14 | 13.20 | 920 us | 1.00 | (165.00) | 10.40 | 0.00 |
| | 12/10/03 | 10 | 7.28 | 10.40 | 1210 us | 0.80 | (310.00) | 7.80 | 0.20 |
| | 03/24/04 | 8.6 | 7.30 | 10.20 | 656 us | EM | (126.00) | NA | 0.00 |
| | 07/09/04 | 5 | 7.20 | 14.00 | 996 us | 16.30 | 283.00 | NA | 0.00 |
| | 09/21/04 | 1.5 | 7.10 | 20.10 | 1004 us | EM | (19.00) | NA | 0.00 |
| | 03/29/05 | 12 | 7.00 | 10.20 | 1164 us | 1.16 | 84.00 | NA | 0.00 |
| | 06/21/05 | 7 | 7.10 | 13.30 | 1253 us | 1.46 | 142.00 | NA | 0.00 |
| | 09/21/05 | 10 | 7.30 | 13.50 | 1233 us | 3.40 | 225.00 | NA | 0.00 |
| | 12/14/05 | 7 | 7.20 | 9.90 | 1295 us | 1.53 | NA | NA | 0.00 |
| | 03/23/06 | 7 | 7.00 | 11.50 | 1140 us | 230.00 | 252.00 | NA | 0.00 |
| | 06/28/06 | 5 | 7.10 | 11.80 | 746 us | 2.75 | 232.00 | NA | 0.00 |
| | 12/20/06 | 8 | 7.40 | 10.80 | 1207 us | 2.89 | 241.00 | NA | 0.23 |
| | 03/28/07 | 8 | 7.2 | 10.8 | 1075 us | 3.09 | 238.0 | NA | 0.05 |
| | 07/03/07 | 8 | 7.4 | 11.3 | 1154 us | 3.54 | 126.0 | NA | 0.38 |
| | 09/28/07 | 8 | 7.2 | 13.7 | 1294 us | 3.14 | 217.0 | NA | 0.00 |
| | 04/16/08 | 1 | 7.09 | 12.0 | 556 us | 0.83 | 233 | NA | NA |
| | 09/22/08 | 1 | 7.27 | 13.8 | 1446 us | 0.20 | 183.7 | NA | NA |
| | 04/03/09 | 1 | 7.40 | 9.4 | 1451 us | 1.89 | NA | NA | NA |
| | 09/01/09 | 1 | 7.33 | 12.4 | 1409 us | 0.22 | 267 | NA | NA |
| | 03/17/10 | 1.5 | 7.30 | 10.8 | 1480 us | 0.89 | 231 | NA | NA |
| | 09/09/10 | 1.25 | 7.21 | 12.6 | 1468 us | 0.40 | 133.2 | NA | NA |
| | 04/29/11 | 1.25 | 7.36 | 10.2 | 1304 us | 2.17 | 244 | NA | 0.09 |
| | 09/01/11 | 1.5 | 7.36 | 13.5 | 1316 us | 0.63 | 89.7 | NA | NA |
| | 03/14/12 | 2 | 6.20 | 10.2 | 0.12 S/m | 0.70 | 175.0 | NA | NA |
| | 09/11/12 | 2.5 | 7.03 | 15.9 | 1.15 ms | 1.05 | 117.8 | NA | NA |
| | 04/29/13 | 1.5 | 12.45 | 9.3 | 0.97 ms | 1.82 | (102.50) | NA | NA |
| | 09/18/13 | 2.5 | 6.40 | 14.00 | 0.12 ms | 5.20 | 152.00 | NA | NA |
| | 04/21/14 | 1.5 | 7.02 | 9.2 | 0.63 mS/cm | 2.64 | 219.5 | NA | NA |
| | 09/16/14 | 3.5 | 8.25 | 13.3 | 0.77 mS/cm | 3.72 | 70.4 | NA | NA |
| | 04/14/15 | 2.5 | 5.90 | 7.62 | 3.51 mS/cm | 5.80 | 118 | NA | <0.0129 |
| | 09/14/15 | 1.5 | 7.15 | 14.62 | 1.007 mS/cm | 0.51 | 69 | NA | NA |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-103 | 04/05/16 | 1.5 | 7.26 | 8.30 | 0.63mS/cm | 1.15 | 43.4 | NA | NA |
| | 09/21/16 | 3 | 7.01 | 13.95 | 0.819 mS/cm | 0.70 | 247.2 | NA | NA |
| | 03/29/17 | 1.5 | 8.61 | 8.40 | 0.771 mS/cm | 1.91 | 183.2 | NA | NA |
| | 10/04/17 | 3 | 7.38 | 13.57 | 1.006 mS/cm | 0.20 | 181.5 | NA | NA |
| | 04/11/18 | 1.5 | 7.00 | 9.20 | 0.909 mS/cm | 2.07 | 56.2 | NA | NA |
| | 09/17/18 | 2 | 6.61 | 14.51 | 1.089 mS/cm | 2.01 | 121.1 | NA | NA |
| | 09/25/19 | 3 | 6.83 | 13.88 | 0.606 mS/cm | 4.61 | 82.3 | NA | <0.0296 |
| 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 | 7.84 | 13.20 | 1272 us | 0.90 | 103.00 | 16.40 | 0.40 |
| | 02/09/99 | 9.5 | 7.66 | 10.10 | 1126 us | 1.50 | 193.00 | 11.20 | 0.00 |
| | 06/08/99 | 13 | 6.80 | 15.60 | 1259 us | 1.60 | 103.00 | 6.40 | 0.00 |
| | 09/13/99 | 13.8 | 7.08 | 13.90 | 1334 us | 1.80 | (146.00) | 10.80 | 0.00 |
| | 12/15/99 | 11.2 | 7.68 | 10.80 | 1172 us | 2.00 | (232.00) | 11.20 | 0.00 |
| | 03/13/00 | 16.5 | 6.91 | 10.20 | 1121 us | 0.40 | 69.00 | 11.20 | 0.60 |
| | 06/22/00 | 11 | 8.65 | 11.60 | 1137 us | 0.71 | (211.00) | 6.80 | 0.00 |
| | 09/27/00 | 8 | 7.24 | 12.90 | 1130 us | 1.70 | (123.00) | 13.20 | 0.00 |
| | 12/19/00 | 8 | 7.75 | 8.20 | 1144 us | 1.05 | (240.00) | 12.40 | 0.00 |
| | 03/01/01 | 9.5 | 7.72 | 10.60 | 1230 us | 0.90 | (220.00) | 12.40 | 0.20 |
| | 06/19/01 | 13 | 7.91 | 12.90 | 1581 us | 0.80 | (110.00) | 6.80 | 0.00 |
| | 09/24/01 | 8 | 7.18 | 12.40 | 1580 us | 0.80 | (99.00) | 9.60 | 0.20 |
| | 12/05/01 | 7 | 7.22 | 9.90 | 1300 us | 1.00 | (311.00) | 9.60 | 0.00 |
| | 03/19/02 | 10 | 7.70 | 10.60 | 1110 us | 0.70 | (210.00) | 11.60 | 0.20 |
| | 06/20/02 | 10 | 7.53 | 13.00 | 1420 us | 0.80 | (174.00) | 12.40 | 0.20 |
| | 09/18/02 | 9 | 7.03 | 14.60 | 1275 us | 1.60 | (148.00) | 12.40 | 0.00 |
| | 12/17/02 | 8 | 7.31 | 10.00 | 1264 us | 0.80 | (294.00) | 8.80 | 0.00 |
| | 03/24/03 | 8 | 7.61 | 10.40 | 1031 us | 0.80 | (240.00) | 10.80 | 0.00 |
| | 06/10/03 | 10 | 7.40 | 15.00 | 1374 us | 0.60 | (91.00) | 11.20 | 0.40 |
| | 09/10/03 | 9 | 7.08 | 14.20 | 1144 us | 1.20 | (151.00) | 8.80 | 0.00 |
| | 12/01/03 | 8 | 7.35 | 10.10 | 1177 us | 0.80 | (280.00) | 8.80 | 0.00 |
| | 03/24/04 | 13.6 | 7.30 | 9.90 | 1496 us | EM | (91.00) | NA | 0.00 |
| | 07/09/04 | 5 | 7.00 | 12.00 | 1648 us | 2.90 | EM | NA | 0.00 |
| | 09/21/04 | 1 | 7.00 | 13.10 | 1648 us | EM | 1.00 | NA | 0.00 |
| | 03/29/05 | 6 | 7.00 | 10.20 | 1939 us | 2.69 | 86.00 | NA | 0.00 |
| | 06/21/05 | 7 | 7.10 | 12.50 | 1999 us | 3.50 | 125.00 | NA | 0.00 |
| | 09/21/05 | 7 | 7.10 | 13.80 | 1926 us | 2.78 | 213.00 | NA | 0.00 |
| | 12/14/05 | 7 | 6.90 | 10.90 | 2320 us | 2.11 | 253.00 | NA | NA ** |
| | 03/23/06 | 10 | 6.90 | 10.60 | 2250 us | 1.73 | 209.00 | NA | 0.00 |
| | 06/28/06 | 5 | 6.80 | 11.30 | 2290 us | 1.40 | 215.00 | NA | 0.26 |
| | 12/20/06 | 8 | 7.10 | 11.90 | 2120 us | 2.08 | 248.00 | NA | 0.00 |
| | 03/28/07 | 8 | 6.9 | 10.1 | 2450 us | 3.80 | 226.0 | NA | 0.07 |
| | 07/03/07 | 6 | 7.1 | 11.5 | 2180 us | 1.51 | 247.0 | NA | 0.61 |
| | 09/28/07 | 6 | 6.9 | 14.7 | 2380 us | 2.22 | 266.0 | NA | 0.05 |
| | 04/16/08 | 1 | 6.96 | 13.9 | 853 us | 1.74 | 157.0 | NA | NA |
| | 09/22/08 | 1 | 7.06 | 13.1 | 3.43 ms | 0.23 | 61.8 | NA | NA |
| | 04/03/09 | 1 | 7.25 | 8.1 | 2.88 ms | 1.67 | NA | NA | NA |
| | 09/01/09 | 1 | 7.11 | 11.6 | 3110 µs | 0.60 | 262 | NA | NA |
| | 03/17/10 | 1.5 | 7.14 | 9.9 | 3.07 ms | 0.93 | 210 | NA | NA |
| | 09/09/10 | 1.25 | 7.07 | 12.4 | 3.05 ms | 0.24 | (156.2) | NA | NA |
| | 04/29/11 | 1.25 | 7.32 | 10.2 | 2980 µs | 1.34 | 243 | NA | 0.00 |
| | 09/01/11 | 1.5 | 7.31 | 13.4 | 2.58 ms | 0.31 | (150.80) | NA | NA |
| | 03/14/12 | 2 | 6.20 | 10.1 | 0.16 S/m | 1.00 | 165.00 | NA | NA |
| | 09/11/12 | 2 | 6.95 | 13.4 | 1.85 ms | 0.25 | 84.90 | NA | NA |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|---------------------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-104 | 04/29/13 | 1.5 | 11.68 | 9.3 | 2.10 ms | 0.24 | (123.50) | NA | NA |
| | 09/17/13 | 4.3 | 6.7 | 11.2 | 0.29ms | 6.2 | (84.00) | NA | NA |
| | 04/21/14 | 1 | 6.86 | 10.1 | 2.12 mS/cm | 1.91 | 253.90 | NA | NA |
| | 09/16/14 | 2 | 7.77 | 12.4 | 2.73 mS/cm | 0.41 | (102.40) | NA | NA |
| | 04/14/15 | 1.5 | 6.04 | 7.88 | 5.30 mS/cm | 4.60 | 122 | NA | <0.0129 |
| | 09/14/15 | 1.75 | 7.11 | 13.92 | 1.941 mS/cm | 0.55 | (12) | NA | NA |
| | 03/30/16 | 1.5 | 7.13 | 8.30 | 0.98 mS/cm | 0.76 | 35.6 | NA | NA |
| | 09/21/16 | 2.5 | 7.11 | 15.30 | 0.986 mS/cm | 0.23 | (22.0) | NA | NA |
| | 03/29/17 | 1.5 | 8.57 | 8.50 | 1.085 mS/cm | 0.91 | 187.7 | NA | NA |
| | 10/04/17 | 3 | 7.49 | 12.78 | 1.269 mS/cm | 0.15 | 178.6 | NA | NA |
| | 04/11/18 | 1.5 | 7.01 | 9.60 | 1.161 mS/cm | 2.33 | 81.5 | NA | NA |
| | 09/17/18 | 2 | 6.87 | 14.07 | 1.456 mS/cm | 0.24 | (3.3) | NA | NA |
| | 09/25/19 | 2 | 7.06 | 14.34 | 1.20 mS/cm | 0.00 | (65.0) | NA | 2.75 |
| MW-105 | 02/20/97 | NR | 7.70 | 7.00 | 1600 us | NA | NA | NA | NA |
| | 05/27/97 | NR | 7.44 | 10.50 | NA | NA | NA | NA | NA |
| | 09/18/98 | NR | 6.89 | 16.00 | 2150 us | NA | NA | NA | NA |
| | 12/12/97 | NR | 7.04 | 12.00 | 2050 us | NA | NA | NA | NA |
| | 03/25/98 | NR | 7.35 | 6.70 | 2878 us | NA | NA | NA | NA |
| | 06/10/98 | NR | 6.25 | 11.10 | 2695 us | NA | NA | NA | NA |
| | 10/27/98 | 5 | 7.57 | 16.80 | 2.87 ms | 0.10 | 121.00 | 13.60 | 0.00 |
| | 02/09/99 | 5.9 | 7.34 | 10.60 | 2.76 ms | 0.90 | 281.00 | 16.80 | 1.80 |
| | 06/08/99 | 5 | 7.32 | 17.80 | 2.87 ms | 0.70 | 90.00 | 9.60 | 0.20 |
| | 09/13/99 | 3.5 | 7.00 | 17.20 | 2.74 ms | 1.70 | (182.00) | 13.20 | 1.40 |
| | 12/15/99 | 3.6 | 7.36 | 13.00 | 2.62 ms | 1.60 | (255.00) | 8.80 | 1.20 |
| | 03/13/00 | 4.5 | 6.58 | 8.40 | 2430 us | 1.30 | 23.00 | 9.60 | 0.80 |
| | 06/22/00 | 3.2 | 8.44 | 14.30 | 2.71 ms | 0.88 | (304.00) | 6.40 | 0.00 |
| | 09/27/00 | 6 | 6.62 | 17.90 | 2.53 ms | 1.10 | (198.00) | 12.80 | 0.00 |
| | 12/19/00 | 6 | 7.42 | 9.60 | 2.32 ms | 2.27 | (167.00) | 12.40 | 0.00 |
| | 03/01/01 | 5 | 7.24 | 10.80 | 2.45 ms | 1.89 | (184.00) | 11.60 | 0.00 |
| | 06/19/01 | 7 | 8.19 | 12.80 | 1877 us | 0.60 | (200.00) | 6.80 | 0.00 |
| | 09/24/01 | 6 | 7.41 | 13.80 | 1809 us | 0.80 | (183.00) | 7.20 | 0.00 |
| | 12/05/01 | 6 | 7.34 | 10.00 | 2148 us | 1.80 | (188.00) | 11.20 | 0.20 |
| | 03/19/02 | 5 | 6.94 | 10.20 | 1984 us | 1.80 | (169.00) | 9.60 | 0.00 |
| | 06/20/02 | 6 | 8.04 | 13.00 | 1400 us | 1.00 | (310.00) | 10.80 | 0.00 |
| | 09/18/02 | 6 | 7.21 | 17.20 | 2800 us | 1.60 | (183.00) | 10.80 | 1.60 |
| | 12/17/02 | 5 | 7.08 | 10.40 | 2008 us | 1.40 | (194.00) | 13.20 | 0.40 |
| | 03/24/03 | 5 | 7.04 | 10.60 | 1477 us | 1.40 | (99.00) | 14.00 | 0.00 |
| | 06/10/03 | 6 | 7.81 | 14.80 | 1344 us | 1.20 | (280.00) | 8.60 | 0.00 |
| | 09/10/03 | 6 | 7.30 | 16.40 | 2626 us | 1.20 | (177.00) | 10.00 | 1.20 |
| | 03/24/04 | 4.9 | 6.80 | 5.90 | 2220 us | EM | (78.00) | NA | 0.00 |
| | 03/29/05 | 4 | 6.80 | 8.90 | 2300 us | 2.12 | 87.00 | NA | 0.00 |
| | 03/23/06 | 4 | 6.90 | 8.60 | 2170 us | 3.54 | 256.00 | NA | 0.22 |
| | 03/27/07 | 4 | 6.8 | 9.2 | 2180 us | 3.37 | 296 | NA | 0.08 |
| | 04/16/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | 1.25 | 7.25 | 9.8 | 1812 µs | 2.98 | 242 | NA | 0.00 |
| | 04/13/15 | 4 | 6.32 | 8.66 | 6.76 mS/cm | 6.91 | 152 | NA | 0.0226 J |
| | 09/25/19 | Unable to sample. Bent bolt over well | | | | | | | |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-106 | 02/20/97 | NR | 7.75 | 10.00 | 1000 us | NA | NA | NA | NA |
| | 05/27/97 | NR | 7.47 | 10.10 | NA | NA | NA | NA | NA |
| | 09/18/97 | NR | 7.19 | 15.00 | 1310 us | NA | NA | NA | NA |
| | 12/12/97 | NR | 7.06 | 11.50 | 1260 us | NA | NA | NA | NA |
| | 03/25/98 | NR | 7.61 | 8.70 | 1716 us | NA | NA | NA | NA |
| | 06/10/98 | NR | 7.11 | 11.60 | 1604 us | NA | NA | NA | NA |
| | 10/27/98 | 4 | 7.31 | 16.80 | 1824 us | 1.20 | 138.00 | 12.80 | 0.00 |
| | 02/09/99 | 2.5 | 7.33 | 10.20 | 1605 us | 1.10 | 197.00 | 20.80 | 0.00 |
| | 06/08/99 | 3.5 | 7.15 | 15.40 | 1332 us | 0.70 | 17.00 | 6.40 | 0.20 |
| | 09/13/99 | 2.3 | 7.02 | 17.40 | 1357 us | 1.00 | (168.00) | 11.60 | 0.00 |
| | 12/15/99 | 2 | 8.41 | 12.10 | 1445 us | 0.80 | (266.00) | 10.00 | 0.00 |
| | 03/13/00 | 2.5 | 6.92 | 9.10 | 1513 us | 1.60 | 18.00 | 10.40 | 0.00 |
| | 06/22/00 | 1.5 | 8.18 | 14.50 | 1736 us | 2.02 | 38.00 | 7.20 | 0.00 |
| | 09/27/00 | 6 | 6.84 | 19.10 | 1715 us | 1.60 | (8.00) | 12.00 | 0.00 |
| | 12/19/00 | 4 | 7.48 | 10.70 | 1694 us | 1.43 | (218.00) | 10.80 | 0.00 |
| | 03/01/01 | 4 | 7.33 | 10.80 | 1722 us | 1.50 | (210.00) | 9.20 | 0.00 |
| | 06/19/01 | 4 | 8.28 | 13.00 | 1361 us | 1.10 | (210.00) | 6.40 | 0.00 |
| | 09/24/01 | 6 | 7.66 | 14.00 | 1220 us | 0.80 | (104.00) | 11.20 | 0.00 |
| | 12/05/01 | 4 | 7.60 | 10.40 | 1702 us | 0.90 | (217.00) | 12.80 | 0.00 |
| | 03/19/02 | 5 | 7.13 | 10.40 | 1630 us | 1.70 | (235.00) | 9.20 | 0.00 |
| | 06/20/02 | 5 | 8.08 | 12.80 | 1288 us | 1.20 | (240.00) | 8.80 | 0.00 |
| | 09/18/02 | 5 | 7.30 | 17.80 | 1438 us | 1.00 | (141.00) | 8.80 | 0.00 |
| | 12/17/02 | 3 | 7.15 | 10.20 | 1788 us | 0.80 | (220.00) | 11.20 | 0.00 |
| | 03/24/03 | 3 | 7.22 | 10.80 | 1250 us | 1.10 | (193.00) | 10.00 | 0.00 |
| | 06/10/03 | 5 | 7.84 | 13.80 | 1310 us | 1.20 | (230.00) | 10.20 | 0.00 |
| | 09/10/03 | 5 | 7.24 | 16.60 | 1303 us | 0.80 | (140.00) | 12.00 | 0.00 |
| | 03/24/04 | 1.8 | 7.10 | 8.00 | 1761 us | EM | (57.00) | NA | 0.00 |
| | 03/29/05 | 2.5 | 6.90 | 9.00 | 1995 us | 2.24 | 85.00 | NA | 0.00 |
| | 03/23/06 | 4 | 7.00 | 9.40 | 2160 us | 4.14 | 249.00 | NA | 0.00 |
| | 03/27/07 | 2 | 7.0 | 8.5 | 1887 us | 5.04 | 249 | NA | 0.00 |
| | 04/16/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | 1.25 | 7.19 | 8.9 | 4120 us | 4.12 | 211 | NA | 0.06 |
| | 04/13/15 | 4 | 6.68 | 8.06 | 4.50 mS/cm | 9.30 | 132 | NA | <0.0129 |
| | 09/25/19 | 6.5 | 7.04 | 18.56 | 1201 us | 0.36 | 21.8 | NA | <0.0296 |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | 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 | 7.41 | 12.10 | 1179 us | 1.10 | 62.00 | 20.00 | 10.00 |
| | 02/09/99 | 9 | 8.10 | 12.00 | 1189 us | 1.30 | 263.00 | 7.20 | 0.40 |
| | 06/08/99 | 9 | 7.48 | 15.60 | 1406 us | 2.20 | 163.00 | 4.80 | 0.40 |
| | 09/13/99 | 8 | 7.30 | 12.90 | 1301 us | 2.60 | (114.00) | 14.00 | 0.60 |
| | 12/15/99 | 10 | 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 | 8.75 | 12.40 | 1574 us | 0.62 | (120.00) | 6.40 | 0.00 |
| | 09/27/00 | 10 | 7.42 | 14.20 | 1505 us | 1.60 | (114.00) | 9.20 | 0.00 |
| | 12/19/00 | 13 | 7.69 | 9.50 | 1524 us | 1.21 | (38.00) | 10.40 | 0.00 |
| | 03/01/01 | 16 | 7.81 | 9.90 | 1704 us | 1.31 | (93.00) | 12.40 | 0.20 |
| | 06/19/01 | 15 | 7.64 | 13.40 | 1221 us | 0.80 | (80.00) | 6.00 | 0.20 |
| | 09/24/01 | 9 | 7.04 | 12.40 | 977 us | 0.60 | (77.00) | 12.00 | 0.40 |
| | 12/05/01 | 13 | 7.15 | 9.20 | 1611 us | 0.80 | (95.00) | 8.40 | 0.00 |
| | 03/19/02 | 12 | 7.64 | 10.00 | 1730 us | 1.30 | 8.00 | 9.60 | 0.20 |
| | 06/20/02 | 10 | 7.48 | 13.60 | 1304 us | 0.60 | (110.00) | 9.60 | 0.40 |
| | 09/10/02 | 10 | 7.52 | 13.10 | 1403 us | 2.00 | (104.00) | 12.40 | 0.40 |
| | 12/17/02 | 10 | 7.22 | 10.40 | 1593 us | 0.80 | (110.00) | 7.80 | 0.00 |
| | 03/24/03 | 10 | 7.30 | 10.30 | 1362 us | 1.00 | (48.00) | 10.80 | 0.00 |
| | 06/10/03 | 11 | 7.20 | 14.00 | 1277 us | 0.80 | (200.00) | 9.20 | 1.00 |
| | 09/10/03 | 10 | 7.46 | 13.30 | 1121 us | 1.30 | (99.00) | 8.00 | 0.20 |
| | 12/01/03 | 10 | 7.41 | 9.80 | 1360 us | 1.00 | (98.00) | 8.40 | 0.00 |
| | 03/24/04 | 9 | 7.30 | 11.10 | 1704 us | EM | (109.00) | NA | 0.00 |
| | 07/09/04 | 6 | 7.30 | 13.20 | 1704 us | 4.59 | 166.00 | NA | 0.00 |
| | 09/21/04 | 3 | 7.10 | 14.30 | 1649 us | EM | 7.00 | NA | 0.00 |
| | 03/29/05 | 9 | 7.20 | 11.50 | 1749 us | 2.83 | 85.00 | NA | 0.00 |
| | 06/21/05 | 8 | 7.30 | 12.70 | 2010 us | 1.85 | 119.00 | NA | 0.00 |
| | 09/21/05 | 8 | 7.50 | 15.20 | 1594 us | 2.92 | 221.00 | NA | 0.00 |
| | 12/14/05 | 8 | 7.40 | 12.30 | 1708 us | 1.80 | 250.00 | NA | 0.00 |
| | 03/27/06 | 10 | 7.30 | 11.90 | 1726 us | 2.65 | 269.00 | NA | 0.00 |
| | 06/28/06 | 7 | 7.20 | 13.40 | 1696 us | 3.76 | 212.00 | NA | 0.04 |
| | 12/20/06 | 8 | 7.20 | 11.80 | 1655 us | 3.83 | 234.00 | NA | 0.08 |
| | 03/28/07 | 8 | 7.3 | 10.4 | 1599 us | 7.14 | 240 | NA | 0.01 |
| | 07/03/07 | 7 | 7.5 | 11.8 | 1163 us | 3.41 | 258 | NA | 0.00 |
| | 09/28/07 | 6 | 7.4 | 13.1 | 1642 us | 2.64 | 238 | NA | 0.02 |
| | 04/16/08 | 1 | 7.30 | 13.5 | NA | 2.12 | 197.9 | NA | NA |
| | 09/22/08 | 1 | 7.47 | 15.4 | 1650 us | 0.23 | 171.8 | NA | NA |
| | 04/03/09 | 1.5 | 7.63 | 10.0 | 1615 us | 2.32 | NA | NA | NA |
| | 09/01/09 | 1.25 | 7.51 | 13.9 | 1586 us | 0.16 | 278 | NA | NA |
| | 03/17/10 | 1.5 | 7.61 | 11.2 | 1566 us | 2.09 | 258 | NA | NA |
| | 09/09/10 | 1.5 | 7.46 | 14.1 | 1532 us | 0.24 | 239 | NA | NA |
| | 04/29/11 | 1.25 | 7.63 | 11.0 | 1516 us | 1.66 | 274 | NA | 0.00 |
| | 09/01/11 | 1.5 | 7.63 | 15.0 | 1490 us | 0.28 | 184.1 | NA | NA |
| | 03/14/12 | 1 | 6.40 | 11.6 | 0.14 S/m | 1.90 | 169.0 | NA | NA |
| | 09/11/12 | 2 | 7.27 | 16.8 | 1.27 ms | 0.14 | 37.2 | NA | NA |
| | 04/30/13 | 2 | 10.66 | 9.7 | 1.11 ms | 3.03 | (70.4) | NA | NA |
| | 09/17/13 | 3 | 7.0 | 15.0 | 0.14ms | 4.0 | 65 | NA | NA |
| | 04/21/14 | 1 | 7.39 | 10.1 | 0.94 mS/cm | 2.9 | 215.2 | NA | NA |
| | 09/16/14 | 3.5 | 7.95 | 14.7 | 0.86 mS/cm | 2.29 | (14.3) | NA | NA |
| | 04/14/15 | 2 | 6.41 | 10.61 | 4.37 mS/cm | 4.08 | 114 | NA | <0.0129 |
| | 09/14/15 | 1.75 | 7.25 | 18.52 | 1.365 mS/cm | 0.72 | 81 | NA | NA |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-107 | 03/30/16 | 1.5 | 7.32 | 9.20 | 0.90 mS/cm | 2.22 | 52.9 | NA | NA |
| | 09/21/16 | 3 | 7.31 | 16.95 | 0.959 mS/cm | 0.68 | 43.8 | NA | NA |
| | 03/29/17 | 1.75 | 10.77 | 8.80 | 0.966 mS/cm | 3.79 | 202.4 | NA | NA |
| | 10/03/17 | 2 | 7.67 | 16.09 | 1.214 mS/cm | 0.18 | 230.6 | NA | NA |
| | 04/11/18 | 1.5 | 7.35 | 9.50 | 1.006 mS/cm | 2.68 | 97.8 | NA | NA |
| | 09/17/18 | 2.5 | 7.08 | 16.99 | 1.168 mS/cm | 0.22 | 58.5 | NA | NA |
| | 09/25/19 | 2 | 7.33 | 16.08 | 0.934 mS/cm | 0.77 | 62 | NA | <0.0296 |
| MW-108 | 02/20/97 | NR | 8.10 | 10.00 | 100 us | NA | NA | NA | NA |
| | 05/27/97 | NR | 6.02 | 11.40 | NA | NA | NA | NA | NA |
| | 09/18/97 | NR | 6.51 | 12.00 | 1160 us | NA | NA | NA | NA |
| | 12/12/97 | NR | 6.98 | 10.40 | 1130 us | NA | NA | NA | NA |
| | 03/25/98 | NR | 7.64 | 10.20 | 1568 us | NA | NA | NA | NA |
| | 06/10/98 | NR | 6.54 | 10.70 | 1525 us | NA | NA | NA | NA |
| | 10/27/98 | 10 | 7.95 | 14.30 | 1696 us | 1.40 | 116.00 | 12.80 | 0.20 |
| | 02/09/99 | 8.1 | 7.51 | 11.00 | 1810 us | 1.10 | (65.00) | 10.40 | 0.40 |
| | 06/08/99 | 12.5 | 7.60 | 15.00 | 1706 us | 0.90 | 173.00 | 7.20 | 0.60 |
| | 09/13/99 | 13.5 | 7.29 | 13.60 | 1849 us | 1.20 | (180.00) | 8.00 | 0.00 |
| | 12/15/99 | 12.8 | 7.68 | 11.80 | 1885 us | 1.00 | (286.00) | 8.40 | 0.00 |
| | 03/13/00 | 14 | 6.25 | 10.20 | 1642 us | 1.70 | (4.00) | 9.20 | 0.20 |
| | 06/22/00 | 11.5 | 7.62 | 14.10 | 1989 us | 1.01 | 69.00 | 6.40 | 0.00 |
| | 09/27/00 | 12 | 7.43 | 13.10 | 1983 us | 0.40 | (73.00) | 10.40 | 0.00 |
| | 12/19/00 | 10.5 | 7.60 | 10.10 | 2.01 ms | 2.18 | (184.00) | 10.80 | 0.00 |
| | 03/01/01 | 9 | 7.49 | 11.20 | 2.38 ms | 2.20 | (211.00) | 11.60 | 0.00 |
| | 06/19/01 | 8 | 8.20 | 13.80 | 1634 us | 0.80 | (90.00) | 7.00 | 0.00 |
| | 09/24/01 | 9 | 7.59 | 14.20 | 1512 us | 0.80 | (83.00) | 9.60 | 0.00 |
| | 12/05/01 | 10 | 7.49 | 10.50 | 2111 us | 1.80 | (199.00) | 9.60 | 0.00 |
| | 03/19/02 | 12 | 7.30 | 10.80 | 2120 us | 2.10 | (170.00) | 11.60 | 0.00 |
| | 06/20/02 | 12 | 7.92 | 14.00 | 1424 us | 0.80 | (120.00) | 12.40 | 0.00 |
| | 09/18/02 | 12 | 7.13 | 13.40 | 1744 us | 1.00 | (132.00) | 11.20 | 0.00 |
| | 12/17/02 | 10 | 7.36 | 10.40 | 1986 us | 1.60 | (174.00) | 8.40 | 0.00 |
| | 03/24/03 | 10 | 7.31 | 10.40 | 2032 us | 1.60 | (190.00) | 8.40 | 0.00 |
| | 06/10/03 | 11 | 7.64 | 14.60 | 1324 us | 0.80 | (144.00) | 9.20 | 0.00 |
| | 09/10/03 | 11 | 7.15 | 13.30 | 1622 us | 0.80 | (124.00) | 10.40 | 0.00 |
| | 03/24/04 | 10 | 7.70 | 12.30 | 1927 us | EM | (156.00) | NA | 0.00 |
| | 03/29/05 | 9 | 7.30 | 10.80 | 2090 us | 2.29 | 83.00 | NA | 0.00 |
| | 03/27/06 | 9 | 7.30 | 9.30 | 2880 us | 1.72 | 2.69 | NA | 0.04 |
| | 03/27/07 | 9 | 7.2 | 12.9 | 3190 us | 5.05 | 185 | NA | 0.04 |
| | 04/16/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 09/22/08 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | 1.25 | 7.27 | 10.2 | 3980 µs | 1.03 | 224 | NA | 0.05 |
| | 04/14/15 | 2 | 5.98 | 10.79 | 11.4 mS/cm | 3.75 | 135 | NA | <0.0129 |
| | 09/25/19 | 2 | 7.07 | 17.20 | 2.65 mS/cm | 0.49 | 88 | NA | 0.0379 |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-109 | 06/21/06 | 2 | 6.42 | 14.80 | 1497 us | - | - | - | - |
| | 09/20/06 | 2 | 6.66 | 14.60 | 1429 us | - | - | - | - |
| | 12/20/06 | 8 | 7.10 | 11.00 | 2120 us | 2.39 | 213.00 | NA | 0.16 |
| | 03/29/07 | 10 | 6.9 | 9.6 | 2050 us | 7.71 | 284 | NA | *** |
| | 07/03/07 | 9 | 7.2 | 12.8 | 2350 us | 1.53 | 192 | NA | 0.04 |
| | 09/28/07 | 10 | 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 |
| | 09/22/08 | 1 | 7.14 | 15.7 | 2.88 ms | 0.71 | 131.1 | NA | NA |
| | 04/03/09 | 1.5 | 7.29 | 8.4 | 2.40 ms | 0.87 | NA | NA | NA |
| | 09/01/09 | 1 | 7.17 | 14.5 | 2650 µs | 0.23 | 145.2 | NA | NA |
| | 03/17/10 | 1.5 | 7.37 | 8.3 | 2.31 ms | 1.12 | 194.7 | NA | NA |
| | 09/09/10 | 1.5 | 7.09 | 15.3 | 2.73 ms | 0.37 | 146.9 | NA | NA |
| | 04/29/11 | 1.25 | 7.27 | 8.4 | 2500 µs | 0.81 | 164.6 | NA | 0.03 |
| | 09/01/11 | 1.5 | 7.28 | 15.2 | 2.56m | 0.24 | 148.3 | NA | NA |
| | 03/16/12 | 1.5 | 6.40 | 9.6 | 0.20 S/m | 1.50 | 200.0 | NA | NA |
| | 09/11/12 | 3 | 6.87 | 19.9 | 1.85 ms | 1.00 | 70.5 | NA | NA |
| | 04/30/13 | 2.5 | 11.12 | 8.9 | 1.47 ms | 2.53 | (81.3) | NA | NA |
| | 09/17/13 | 2.5 | 6.8 | 17.2 | 0 | 4.1 | 143 | NA | NA |
| | 04/21/14 | 1 | 7.02 | 9.0 | 1.36 mS/cm | 2.22 | 220.1 | NA | NA |
| | 09/16/14 | 3.5 | 7.47 | 16.6 | 0.301 mS/cm | 0.32 | (80.0) | NA | NA |
| | 04/14/15 | 4 | 5.95 | 7.80 | 8.54 mS/cm | 5.35 | 136 | NA | <0.0129 |
| | 09/14/15 | 1.5 | 6.82 | 20.51 | 4.269 mS/cm | 0.80 | 103.3 | NA | NA |
| | 03/30/16 | 2 | 6.78 | 8.20 | 3.11 mS/cm | 0.57 | 33.5 | NA | NA |
| | 09/21/16 | 2 | 6.81 | 18.90 | 3.581 mS/cm | 0.37 | 41.8 | NA | NA |
| | 03/29/17 | 1.75 | 11.98 | 6.40 | 3.118 mS/cm | 2.37 | 204.6 | NA | NA |
| | 10/04/17 | 3 | 7.26 | 16.38 | 3.899 mS/cm | 1.07 | 222.8 | NA | NA |
| | 04/10/18 | 1.5 | 6.78 | 6.20 | 3.540 mS/cm | 2.55 | 150.7 | NA | NA |
| | 09/21/18 | 2.5 | 6.85 | 20.92 | 4.221 mS/cm | 1.46 | 100.5 | NA | NA |
| | 09/26/19 | 2 | 7.08 | 12.45 | 5.0 mS/cm | 2.16 | 167 | NA | <0.0296 |
| MW-110 | 06/21/06 | 2 | 6.91 | 12.70 | 1178 us | - | - | - | - |
| | 09/20/06 | 2 | 7.00 | 14.40 | 1248 us | - | - | - | - |
| | 12/20/06 | 10 | 7.20 | 10.60 | 1757 us | 2.07 | 234.00 | NA | 0.00 |
| | 03/29/07 | 10 | 7.2 | 8.1 | 1806 us | 7.03 | 255 | NA | 0.03 |
| | 07/03/07 | 8 | 8.3 | 12.1 | 1752 us | 2.96 | 227 | NA | 0.13 |
| | 09/28/07 | 11 | 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 |
| | 09/22/08 | 1 | 7.42 | 16.6 | 1892us | 1.04 | 241 | NA | NA |
| | 04/03/09 | 1.5 | 7.57 | 7.5 | 2.24 ms | 3.05 | NA | NA | NA |
| | 09/01/09 | 1.25 | 7.45 | 15.2 | 1849 µs | 1.17 | 250 | NA | NA |
| | 03/17/10 | 1.5 | 7.53 | 8.3 | 2.62 ms | 3.71 | 261 | NA | NA |
| | 09/09/10 | 1.5 | 7.32 | 15.4 | 2.34 ms | 2.12 | 181.5 | NA | NA |
| | 04/29/11 | 1.25 | 7.54 | 8.2 | 1314 µs | 3.91 | 272 | NA | 0.11 |
| | 09/01/11 | 1.5 | 7.50 | 17.3 | 1643 µs | 2.67 | 181.4 | NA | NA |
| | 03/14/12 | 2 | 6.60 | 9.4 | 0.20 S/m | 8.70 | 198.0 | NA | NA |
| | 09/12/12 | 2.5 | 7.13 | 18.5 | 1.64 ms | 3.15 | 174.3 | NA | NA |
| | 04/30/13 | 3 | 8.29 | 7.7 | 2.44 ms | 1.78 | (66.9) | NA | NA |
| | 09/17/13 | 2.8 | 6.8 | 15.1 | 0 | 4.0 | 107 | NA | NA |
| | 04/22/14 | 1 | 7.28 | 6.8 | 0.99 mS/cm | 4.55 | 249.1 | NA | NA |
| | 04/15/15 | 2 | 6.58 | 5.88 | 5.99 mS/cm | 10.28 | 104 | NA | <0.0129 |
| | 09/17/14 | 3 | 7.50 | 15.3 | 1.45 mS/cm | 0.14 | (24.4) | NA | NA |
| | 03/31/16 | 2 | 7.68 | 5.0 | 0.482 mS/cm | 7.69 | 10.8 | NA | NA |
| | 09/21/16 | 2 | 7.00 | 17.0 | 1.238 mS/cm | 1.90 | 85.9 | NA | NA |
| | 03/29/17 | 2 | 8.58 | 5.8 | 0.793 mS/cm | 9.03 | 220.6 | NA | NA |
| | 10/03/17 | 3.5 | 7.27 | 16.51 | 1.323 mS/cm | 0.42 | 213.3 | NA | NA |
| | 04/10/18 | 1.5 | 7.09 | 4.90 | 2.636 mS/cm | 7.79 | 129.9 | NA | NA |
| | 09/21/18 | 2.5 | 6.70 | 18.97 | 1.621 mS/cm | 0.10 | 5.2 | NA | NA |
| | 09/26/19 | 2.0 | 6.92 | 15.44 | 0.949 mS/cm | 0.00 | (52.0) | NA | 1.08 |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-111 | 06/21/06 | 2 | 7.01 | 12.40 | 1311 μ s | - | - | - | - |
| | 09/20/06 | 1.75 | 6.99 | 14.00 | 1164 μ s | - | - | - | - |
| | 12/20/06 | 6 | 7.20 | 11.00 | 1478 μ s | 3.95 | 243.00 | NA | 0.01 |
| | 03/29/07 | 10 | 7.4 | 9.2 | 1908 μ s | 9.29 | 209 | NA | 0.01 |
| | 07/03/07 | 6 | 7.4 | 12.1 | 1855 μ s | 1.63 | 263 | NA | 0.28 |
| | 09/28/07 | 11 | 7.4 | 13.5 | 1672 μ s | 6.08 | 256 | NA | 0.02 |
| | 04/16/08 | 1.25 | 7.40 | 11.6 | NA | 2.25 | 244 | NA | NA |
| | 09/22/08 | 1.25 | 7.48 | 16.1 | 1901 μ s | 0.49 | 170 | NA | NA |
| | 04/03/09 | 1.5 | 7.64 | 7.5 | 1970 μ s | 3.51 | NA | NA | NA |
| | 09/01/09 | 1.25 | 7.51 | 15.5 | 1777 μ s | 0.74 | 191.0 | NA | NA |
| | 03/17/10 | 1.5 | 7.61 | 8.3 | 1889 μ s | 3.05 | 287 | NA | NA |
| | 09/09/10 | 1.5 | 7.37 | 15.1 | 1900 μ s | 0.49 | 160.5 | NA | NA |
| | 04/29/11 | 1.25 | 7.60 | 9.1 | 2110 μ s | 1.95 | 286 | NA | 0.09 |
| | 09/01/11 | 1.5 | 7.57 | 15.0 | 1716 μ s | 0.85 | 159.6 | NA | NA |
| | 03/14/12 | 1.5 | 6.50 | 10.5 | 0.17 S/m | 2.50 | 177.0 | NA | NA |
| | 09/12/12 | 3 | 7.26 | 16.1 | 1.47 ms | 0.18 | 97.6 | NA | NA |
| | 04/30/13 | 2 | 8.75 | 8.0 | 1.43 ms | 3.89 | (43.7) | NA | NA |
| | 09/17/13 | 2.8 | 7.0 | 15.5 | 0.18ms | 3.5 | 106 | NA | NA |
| | 04/21/14 | 1 | 7.30 | 9.9 | 1.17 mS/cm | 1.80 | 218.4 | NA | NA |
| | 09/17/14 | 2 | 7.72 | 14.1 | 1.23 mS/cm | 0.16 | 20.4 | NA | NA |
| | 04/14/15 | 4 | 6.83 | 8.43 | 4.84 mS/cm | 7.66 | 49 | NA | <0.0129 |
| | 09/14/15 | 1.5 | 7.41 | 18.15 | 1.670 mS/cm | 1.27 | 50.7 | NA | NA |
| | 03/31/16 | 2 | 7.38 | 6.00 | 0.82 mS/cm | 1.84 | (15.90) | NA | NA |
| | 09/22/16 | 2 | 7.38 | 15.59 | 1.028 mS/cm | 0.41 | 150.2 | NA | NA |
| | 03/29/17 | 1.75 | 8.76 | 7.30 | 0.876 mS/cm | 3.32 | 190.3 | NA | NA |
| | 10/03/17 | 2.5 | 7.71 | 16.56 | 1.160 mS/cm | 1.49 | 274.7 | NA | NA |
| | 04/10/18 | 2 | 7.33 | 6.30 | 1.121 mS/cm | 4.14 | 110.5 | NA | NA |
| | 09/21/18 | 2 | 7.27 | 19.78 | 1.098 mS/cm | 0.73 | 77.1 | NA | NA |
| | 09/26/19 | 2 | 7.46 | 13.60 | 0.825 mS/cm | 0.60 | 135 | NA | <0.0296 |
| MW-112 | 06/21/06 | 2 | 7.21 | 12.40 | 1338 μ s | - | - | - | - |
| | 09/20/06 | 2 | 7.28 | 14.60 | 1238 μ s | - | - | - | - |
| | 12/20/06 | 8 | 7.50 | 10.70 | 1817 μ s | 1.94 | 729.00 | NA | 0.00 |
| | 03/28/07 | 10 | 7.5 | 9.5 | 2050 μ s | 7.93 | 228 | NA | 0.00 |
| | 07/03/07 | 9 | 7.6 | 13.7 | 1909 μ s | 3.48 | 234 | NA | 0.28 |
| | 09/28/07 | 11 | 7.6 | 13.7 | 1921 μ s | 6.80 | 267 | NA | 0.04 |
| | 04/16/08 | 1.25 | 7.50 | 12.9 | NA | 2.44 | 270 | NA | NA |
| | 09/22/08 | 1.25 | 7.71 | 15.9 | 2.34 ms | 0.15 | 208 | NA | NA |
| | 04/03/09 | 1.5 | 7.79 | 7.6 | 2.5 ms | 2.69 | NA | NA | NA |
| | 09/01/09 | 1.25 | 7.76 | 15.5 | 2320 μ s | 0.75 | 217 | NA | NA |
| | 03/17/10 | 1.5 | 7.81 | 8.5 | 1891 μ s | 3.02 | 264 | NA | NA |
| | 09/09/10 | 1.5 | 7.56 | 15.7 | 1921 μ s | 0.70 | 229 | NA | NA |
| | 04/29/11 | 1.25 | 7.75 | 8.4 | 1268 μ s | 2.92 | 252 | NA | 0.10 |
| | 09/01/11 | 1.5 | 7.83 | 15.0 | 1581 μ s | 0.44 | 169.0 | NA | NA |
| | 03/14/12 | 1.5 | 6.60 | 8.4 | 0.076 S/m | 9.40 | 215.0 | NA | NA |
| | 09/12/12 | 3 | 7.26 | 17.2 | 1.23 ms | 0.22 | 219.7 | NA | NA |
| | 04/30/13 | 2 | 8.87 | 8.3 | 1.65 ms | 0.55 | (105.6) | NA | NA |
| | 09/17/13 | 2.8 | 6.9 | 16.8 | 0.16ms | 2.3 | 62 | NA | NA |
| | 04/21/14 | 3 | 7.27 | 8.5 | 0.72 mS/cm | 1.67 | 194.4 | NA | NA |
| | 09/17/14 | 3 | 7.49 | 15.8 | 1.19 mS/cm | 0.14 | 6.7 | NA | NA |
| | 04/14/15 | 2.5 | 6.18 | 10.27 | 4.00 mS/cm | 6.39 | 107 | NA | <0.0129 |
| | 09/14/15 | 1.5 | 7.50 | 18.31 | 1.993 mS/cm | 0.79 | 59.8 | NA | NA |
| | 03/31/16 | 2.5 | 7.14 | 6.20 | 0.66 mS/cm | 0.18 | (35.30) | NA | NA |
| | 03/22/16 | 2.1 | 7.19 | 16.21 | 1.088 mS/cm | 0.41 | 130.2 | NA | NA |
| | 03/29/17 | 1.75 | 8.61 | 7.10 | 0.665 mS/cm | 0.72 | 96.1 | NA | NA |
| | 10/03/17 | 3 | 7.53 | 17.16 | 1.132 mS/cm | 0.20 | 243.3 | NA | NA |
| | 04/10/18 | 1.5 | 7.20 | 5.00 | 1.507 mS/cm | 5.87 | 128.2 | NA | NA |
| | 09/21/18 | 2 | 6.96 | 20.54 | 1.512 mS/cm | 0.16 | 63.2 | NA | NA |

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

| Well Name | Sample Date | Purge* Volume (gallons) | pH (std units) | Temperature (°C) | Conductivity (units as shown) | Dissolved Oxygen (ppm, unless noted) | Redox (mV) | Alkalinity (gpg) | Ferrous Iron (mg/L) |
|-----------|-------------|-------------------------|----------------|------------------|-------------------------------|--------------------------------------|------------|------------------|---------------------|
| MW-112 | 09/26/19 | 2 | 7.16 | 14.82 | 1.04 mS/cm | 0.00 | 119 | NA | 0.0306 J |
| MW-113 | 06/21/06 | 2 | 6.91 | 12.90 | 1020 us | - | - | - | - |
| | 09/20/06 | 2 | 7.11 | 14.60 | 900 us | - | - | - | - |
| | 12/20/06 | 8 | 7.20 | 10.60 | 1757 us | 2.07 | 234.00 | NA | 0.00 |
| | 03/29/07 | 10 | 7.3 | 8.0 | 1508 us | 9.52 | 235 | NA | *** |
| | 07/03/07 | 7 | 7.6 | 10.9 | 1552 us | 2.05 | 262 | NA | 0.13 |
| | 09/28/07 | 13 | 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 |
| | 09/22/08 | 1.25 | 7.59 | 15.5 | 1711 us | 0.22 | 218 | NA | NA |
| | 04/03/09 | 1.5 | 7.70 | 7.4 | 1749 us | 3.50 | NA | NA | NA |
| | 09/01/09 | 1.25 | 7.56 | 15.6 | 1615 us | 0.57 | 270 | NA | NA |
| | 03/17/10 | 1.5 | 7.68 | 8.5 | 1800 us | 3.22 | 235 | NA | NA |
| | 09/09/10 | 1.5 | 7.49 | 15.5 | 1722 us | 0.37 | 223 | NA | NA |
| | 04/29/11 | 1.25 | 7.65 | 9.3 | 1660 us | 1.68 | 281 | NA | 0.00 |
| | 09/01/11 | 1.5 | 7.67 | 16.2 | 1552 us | 0.27 | 184.8 | NA | NA |
| | 03/14/12 | 2 | 6.60 | 8.8 | 0.15 S/m | 4.50 | 236.0 | NA | NA |
| | 09/12/12 | 3 | 7.09 | 19.1 | 1.40 ms | 1.40 | 55.0 | NA | NA |
| | 04/30/13 | 3 | 10.82 | 8.3 | 1.14 ms | 0.30 | (116.4) | NA | NA |
| | 09/17/13 | 2.5 | 6.8 | 15.8 | .018ms | 3.9 | 142 | NA | NA |
| | 04/22/14 | 2 | 7.31 | 7.5 | 1.15 mS/cm | 0.28 | 253.9 | NA | NA |
| | 09/17/14 | 2.5 | 7.78 | 15.7 | 1.28 mS/cm | 0.31 | (95.9) | NA | NA |
| | 04/14/15 | 2 | 6.16 | 11.07 | 4.90 mS/cm | 3.57 | 122 | NA | <0.0129 |
| | 09/14/15 | 2 | 7.31 | 16.27 | 1.596 mS/cm | 0.37 | 89.8 | NA | NA |
| | 03/31/16 | 2 | 7.15 | 6.70 | 0.80 mS/cm | 1.75 | 15.11 | NA | NA |
| | 09/21/16 | 2.5 | 7.07 | 7.07 | 1.199 mS/cm | 0.15 | 89.6 | NA | NA |
| | 03/29/17 | 2 | 8.56 | 7.00 | 1.143 mS/cm | 3.02 | 209.6 | NA | NA |
| | 10/03/17 | 2.5 | 7.40 | 17.24 | 1.372 mS/cm | 0.43 | 221.8 | NA | NA |
| | 04/10/18 | 1.5 | 7.23 | 6.90 | 1.259 mS/cm | 2.83 | 131.5 | NA | NA |
| | 09/21/18 | 2 | 7.08 | 17.29 | 1.374 mS/cm | 0.18 | 53.0 | NA | NA |
| | 09/26/19 | 2 | 7.19 | 15.77 | 1.13 mS/cm | 0.00 | 134.0 | NA | 0.855 |

ppm = parts per million

us (old) = microsiemens / centimeter

μs = microsiemens / centimeter

S/m = siemens / meter

ms (old) = millisiemens / centimeter

mS/cm = millisiemens / 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.

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
Historical Groundwater Analytic Test 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 | 0.72 * | NA | NA | NA | 2.8 | NA | NA |
| | 03/13/00 | <.31 | 0.79 * | 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* | 0.91* | NA | NA | NA | 8.0 | NA | NA |
| | 03/01/01 | <.23 | <.57 | NA | NA | NA | <2.0 | NA | NA |
| | 06/19/01 | <.17 | 0.55 * | 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 | <2.0 | NA | NA |
| | 03/19/02 | .27* | <.57 | NA | NA | NA | <2.0 | 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 | <0.17 | <.43 | NA | NA | NA | 8.5 | NA | NA |
| | 03/24/04 | NA | <0.45 | 5.0 | NA | NA | <1.0 | NA | NA |
| | 03/29/05 | NA | 1.2 | <2.7 | NA | NA | 1.3 | NA | NA |
| | 03/23/06 | NA | 0.52 | <5.0 | NA | NA | 4.1 | NA | NA |
| | 03/27/07 | NA | <1.9 | NA | NA | NA | 4.7 | NA | NA |
| | 04/29/11 | NA | 0.51 J | NA | NA | NA | 21.7 | NA | NA |
| | 04/14/15 | NA | <2.1 | NA | NA | NA | 318 | NA | NA |
| | 09/25/19 | NA | <2.5 | NA | NA | NA | 271 | 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 | <2.0 | 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 | <0.52 | <2.7 | NA | NA | 9.7 | NA | NA |
| | 03/23/06 | NA | <0.4 | <5.0 | NA | NA | 5.5 | NA | NA |
| | 03/27/07 | NA | <1.9 | NA | NA | NA | 6.0 | NA | NA |
| | 04/29/11 | NA | 0.63 J | NA | NA | NA | <0.14 | NA | NA |
| | 04/13/15 | NA | <2.1 | NA | NA | NA | <1.4 | NA | NA |
| | 09/25/19 | NA | <2.5 | NA | NA | NA | <1.1 | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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 |
| | 04/29/11 | NA | 2.8 J | NA | NA | NA | 8.3 | NA | NA |
| | 04/13/15 | NA | 2.8 J | NA | NA | NA | <1.4 | NA | NA |
| | 09/25/19 | NA | <2.5 | NA | NA | NA | 4.8 J | 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 | <0.62 | 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 | 0.55 * | NA | NA | NA | <2.0 | NA | NA |
| | 12/05/01 | <.23 | 0.90* | NA | NA | NA | <2.0 | NA | NA |
| | 03/19/02 | <.23 | 0.66* | NA | NA | NA | <2.0 | NA | NA |
| | 06/20/02 | <.23 | 0.58* | NA | NA | NA | 2.2 | NA | NA |
| | 09/18/02 | <.23 | <0.44 | NA | NA | NA | 13.0 | NA | NA |
| | 12/17/02 | <.23 | <0.44 | NA | NA | NA | 33.0 | NA | NA |
| | 03/24/03 | <.17 | 0.50* | 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 |
| | 04/03/09 | NA | 1.9 J | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | 2.5 J | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | NA | 1.4 J | NA | NA | NA | 0.50 J | NA | NA |
| | 03/16/12 | NA | <2.0 | NA | NA | NA | 0.50 J | NA | NA |
| | 04/29/13 | NA | <2.0 | NA | NA | NA | NA | NA | NA |
| | 04/21/14 | NA | 2.2 J | NA | NA | NA | NA | NA | NA |
| | 04/14/15 | NA | <2.1 | NA | NA | NA | <1.4 | NA | NA |
| | 03/30/16 | NA | <2.1 | NA | NA | NA | NA | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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-101 | 03/29/17 | NA | <2.5 | NA | NA | NA | NA | NA | NA |
| | 04/11/18 | NA | <2.5 | NA | NA | NA | NA | NA | NA |
| | 09/25/19 | NA | <2.5 | NA | NA | NA | 3.0 J | NA | NA |
| 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* | <.43 | NA | NA | NA | 3.5 | NA | NA |
| | 03/24/04 | NA | <.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 | <.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 | <.57 | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | <.57 | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | 0.74 J | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | NA | 6.1 | NA | NA | NA | 32.1 | NA | NA |
| | 03/14/12 | NA | <2.0 | NA | NA | NA | NA | NA | NA |
| | 04/29/13 | NA | 130 | NA | NA | NA | NA | NA | NA |
| | 04/21/14 | NA | 128 | NA | NA | NA | NA | NA | NA |
| | 04/13/15 | NA | 98.2 | NA | NA | NA | NA | NA | NA |
| | 03/30/16 | NA | 116 | NA | NA | NA | NA | NA | NA |
| | 03/29/17 | NA | 90.5 | NA | NA | NA | NA | NA | NA |
| | 04/11/18 | NA | <2.5 | NA | NA | NA | NA | NA | NA |
| | 09/25/19 | Unable to sample - Broken bolt over well | | | | | | | |

TABLE 5
Historical Groundwater Analytic Test 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 |
| | 09/22/08 | NA | 240 | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | 171 | NA | NA | NA | NA | NA | NA |
| | 09/01/09 | NA | 157 | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | 114 | NA | NA | NA | NA | NA | NA |
| | 09/09/10 | NA | 16.4 | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | NA | 23.1 | NA | NA | NA | <0.14 | NA | NA |
| | 09/01/11 | NA | 54.5 | NA | NA | NA | NA | NA | NA |
| | 03/14/12 | NA | 27.0 | NA | NA | NA | NA | NA | NA |
| | 09/11/12 | NA | 10.8 | NA | NA | NA | NA | NA | NA |
| | 04/29/13 | NA | 24.8 | NA | NA | NA | NA | NA | NA |
| | 09/17/13 | NA | 6.4 | NA | NA | NA | NA | NA | NA |
| | 04/21/14 | NA | 6.9 | NA | NA | NA | NA | NA | NA |
| | 09/17/14 | NA | 10.0 | NA | NA | NA | NA | NA | NA |
| | 04/14/15 | NA | 8.2 | NA | NA | NA | <1.4 | NA | NA |
| | 09/14/15 | NA | 6.9 | NA | NA | NA | NA | NA | NA |
| | 04/05/16 | NA | 7.8 J | NA | NA | NA | NA | NA | NA |
| | 09/21/16 | NA | 5.8 J | NA | NA | NA | NA | NA | NA |
| | 03/29/17 | NA | 7.5 J | NA | NA | NA | NA | NA | NA |
| | 10/04/17 | NA | <2.5 | NA | NA | NA | NA | NA | NA |
| | 04/11/18 | NA | 11.7 | NA | NA | NA | NA | NA | NA |
| | 09/17/18 | NA | 34.3 | NA | NA | NA | NA | NA | NA |
| | 09/25/19 | NA | 4.4 J | NA | NA | NA | 4.1 J | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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 |
| | 12/05/01 | <.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 | 1,200.0 | 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 |
| | 09/22/08 | NA | 1.3 J | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | 144 | NA | NA | NA | NA | NA | NA |
| | 09/01/09 | NA | 1.4 J | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | 719 | NA | NA | NA | NA | NA | NA |
| | 09/09/10 | NA | 6.7 | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | NA | 376 | NA | NA | NA | 7.7 | NA | NA |
| | 09/01/11 | NA | 5.4 | NA | NA | NA | NA | NA | NA |
| | 03/14/12 | NA | 510 | NA | NA | NA | NA | NA | NA |
| | 09/11/12 | NA | <2.0 | NA | NA | NA | NA | NA | NA |
| | 04/29/13 | NA | 1.3 J | NA | NA | NA | NA | NA | NA |
| | 09/17/13 | NA | <2.0 | NA | NA | NA | NA | NA | NA |
| | 04/21/14 | NA | 10.5 | NA | NA | NA | NA | NA | NA |
| | 09/16/14 | NA | 12.5 | NA | NA | NA | NA | NA | NA |
| | 04/14/15 | NA | 287.0 | NA | NA | NA | <1.4 | NA | NA |
| | 09/14/15 | NA | 5.0 | NA | NA | NA | NA | NA | NA |
| | 03/30/16 | NA | 93.5 | NA | NA | NA | NA | NA | NA |
| | 09/21/16 | NA | 2.6 J | NA | NA | NA | NA | NA | NA |
| | 03/29/17 | NA | 6.2 J | NA | NA | NA | NA | NA | NA |
| | 10/04/17 | NA | 5.8 J | NA | NA | NA | NA | NA | NA |
| | 04/11/18 | NA | 27.6 | NA | NA | NA | NA | NA | NA |
| | 09/17/18 | NA | 2.8 J | NA | NA | NA | NA | NA | NA |
| | 09/25/19 | NA | 3.8 J | NA | NA | NA | 244 | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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 |
| | 04/29/11 | NA | 0.64 J | NA | NA | NA | 1.8 J | NA | NA |
| | 04/13/15 | NA | <2.1 | NA | NA | NA | 2.5J | NA | NA |
| | 09/25/19 | Unable to sample - Broken bolt over well | | | | | | | |
| 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 |
| | 04/29/11 | NA | 0.79 J | NA | NA | NA | 0.16 J | NA | NA |
| | 04/13/15 | NA | <2.1 | NA | NA | NA | <1.4 | NA | NA |
| | 09/25/19 | NA | <2.5 | NA | NA | NA | 55.2 | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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 J | 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 | <2.3 | 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 |
| | 09/22/08 | NA | 2,950 | NA | NA | NA | NA | NA | NA |
| | 04/03/09 | NA | 3,790 | NA | NA | NA | NA | NA | NA |
| | 09/01/09 | NA | 2,420 | NA | NA | NA | NA | NA | NA |
| | 03/17/10 | NA | 3,240 | NA | NA | NA | NA | NA | NA |
| | 09/09/10 | NA | 2,480 | NA | NA | NA | NA | NA | NA |
| | 04/29/11 | NA | 2,940 | NA | NA | NA | 0.32 J | NA | NA |
| | 09/01/11 | NA | 1,960 | NA | NA | NA | NA | NA | NA |
| | 03/14/12 | NA | 2,700 | NA | NA | NA | NA | NA | NA |
| | 09/11/12 | NA | 2,410 | NA | NA | NA | NA | NA | NA |
| | 04/30/13 | NA | 3,020 | NA | NA | NA | NA | NA | NA |
| | 09/17/13 | NA | 3,440 | NA | NA | NA | NA | NA | NA |
| | 04/21/14 | NA | 2,150 | NA | NA | NA | NA | NA | NA |
| | 09/16/14 | NA | 2,130 | NA | NA | NA | NA | NA | NA |
| | 04/14/15 | NA | 2,210 | NA | NA | NA | 2.0 J | NA | NA |
| | 09/14/15 | NA | 1,600 | NA | NA | NA | NA | NA | NA |
| | 03/30/16 | NA | 2,250 | NA | NA | NA | NA | NA | NA |
| | 09/21/16 | NA | 2,390 | NA | NA | NA | NA | NA | NA |
| | 03/29/17 | NA | 1,990 | NA | NA | NA | NA | NA | NA |
| | 10/03/17 | NA | 1,400 | NA | NA | NA | NA | NA | NA |
| | 04/11/18 | NA | 1,920 | NA | NA | NA | NA | NA | NA |
| | 09/17/18 | NA | 609 | NA | NA | NA | NA | NA | NA |
| | 09/25/19 | NA | 1,300 | NA | NA | NA | 3.5 J | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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 | <.05 | 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 | 0.85* | NA | NA | NA | 39.0 | NA | NA | |
| | 09/18/02 | <.23 | <.44 | NA | NA | NA | 150.0 | NA | NA | |
| | 12/17/02 | <.23 | 0.67* | NA | NA | NA | 34.0 | NA | NA | |
| | 03/24/03 | <.17 | 0.67* | 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 | |
| | 04/29/11 | NA | 1.8 J | NA | NA | NA | 0.70 J | NA | NA | |
| | 04/14/15 | NA | <2.1 | NA | NA | NA | <1.4 | NA | NA | |
| | 09/25/19 | NA | <2.5 | NA | NA | NA | 79.9 | NA | NA | |
| MW-109 | **** | 06/21/06 | <0.92 | 1,300 | 1,400 | 2.4* | <9.4 | 480.0 | <0.072 | <20 |
| | | 09/20/06 | 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 |
| | | 09/22/08 | NA | 892 | NA | NA | NA | NA | NA | NA |
| | | 04/03/09 | NA | 912 | NA | NA | NA | NA | NA | NA |
| | | 09/01/09 | NA | 1,520 | NA | NA | NA | NA | NA | NA |
| | | 03/17/10 | NA | 867 | NA | NA | NA | NA | NA | NA |
| | | 09/09/10 | NA | 718 | NA | NA | NA | NA | NA | NA |
| | | 04/29/11 | NA | 1,110 | NA | NA | NA | 3.8 J | NA | NA |
| | | 09/01/11 | NA | 2,040 | NA | NA | NA | NA | NA | NA |
| | | 03/16/12 | NA | 866 | NA | NA | NA | NA | NA | NA |
| | | 09/11/12 | NA | 582 | NA | NA | NA | NA | NA | NA |
| | | 04/29/13 | NA | 986 | NA | NA | NA | NA | NA | NA |
| | | 09/17/13 | NA | 805 | NA | NA | NA | NA | NA | NA |
| | | 04/21/14 | NA | 863 | NA | NA | NA | NA | NA | NA |
| | | 09/16/14 | NA | 944 | NA | NA | NA | NA | NA | NA |
| | | 04/14/15 | NA | 740 | NA | NA | NA | <1.4 | NA | NA |
| | | 09/14/15 | NA | 889 | NA | NA | NA | NA | NA | NA |
| | | 03/30/16 | NA | 847 | NA | NA | NA | NA | NA | NA |
| | | 09/21/16 | NA | 648 | NA | NA | NA | NA | NA | NA |
| | | 03/29/17 | NA | 602 | NA | NA | NA | NA | NA | NA |
| | | 10/04/17 | NA | 384 | NA | NA | NA | NA | NA | NA |
| | | 04/10/18 | NA | 602 | NA | NA | NA | NA | NA | NA |
| | | 09/17/18 | NA | 333 | NA | NA | NA | NA | NA | NA |
| | | 09/26/19 | NA | 339 | NA | NA | NA | 18.3 | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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-110 | **** | 06/21/06 | <0.92 | 24,000 | 26,000 | 2.9* | 40 | 290.0 | <0.072 | <20 |
| | | 09/20/06 | 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 |
| | | 09/22/08 | NA | 32,500 | NA | NA | 57 | NA | NA | NA |
| | | 04/03/09 | NA | 30,900 | NA | NA | 42 | NA | NA | NA |
| | | 09/01/09 | NA | 34,400 | NA | NA | 21 | NA | NA | NA |
| | | 03/17/10 | NA | 22,800 | NA | NA | 39 | NA | NA | NA |
| | | 09/09/10 | NA | 5,060 | NA | NA | 7.5 J | NA | NA | NA |
| | | 04/29/11 | NA | 27.2 | NA | NA | <6.1 | 0.22 J | NA | NA |
| | | 09/01/11 | NA | 7,270 | NA | NA | 6.6 J | NA | NA | NA |
| | | 03/14/12 | NA | 4,530 | NA | NA | 6.6 J | NA | NA | NA |
| | | 09/12/12 | NA | 10,800 | NA | NA | 13 J | NA | NA | NA |
| | | 04/30/13 | NA | 294 | NA | NA | 4.3 J | NA | NA | NA |
| | | 09/17/13 | NA | 3,190 | NA | NA | 4.3 J | NA | NA | NA |
| | | 04/22/14 | NA | 76 | NA | NA | <10 | NA | NA | NA |
| | | 09/17/14 | NA | 1,960 | NA | NA | <0.010 | NA | NA | NA |
| | | 04/15/15 | NA | 156 | NA | NA | 10 | 2.7 J | NA | NA |
| | | 09/14/15 | NA | 849 | 860 | NA | <10 | NA | NA | NA |
| | | 03/31/16 | NA | 3.5 J | NA | NA | <6.8 | NA | NA | NA |
| | | 09/21/16 | NA | 1,460 | NA | NA | <6.8 | NA | NA | NA |
| | | 03/29/17 | NA | 6.7 J | NA | NA | <6.8 | NA | NA | NA |
| | | 10/03/17 | NA | 987 | NA | NA | <6.8 | NA | NA | NA |
| | | 04/10/18 | NA | 251 | NA | NA | <6.8 | NA | NA | NA |
| | | 09/17/18 | NA | 6.2 J | NA | NA | <6.8 | NA | NA | NA |
| | | 09/26/19 | NA | <2.5 | NA | NA | <6.8 | 542 | NA | NA |
| MW-111 | **** | 06/21/06 | <0.92 | 1,400 | 1,400 | 3.3* | 27 | 190.0 | <0.072 | <20 |
| | **** | 09/20/06 | 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 |
| | | 09/22/08 | NA | 743 | NA | NA | NA | NA | NA | NA |
| | | 04/03/09 | NA | 381 | NA | NA | 13 J | NA | NA | NA |
| | | 09/01/09 | NA | 1,380 | NA | NA | NA | NA | NA | NA |
| | | 03/17/10 | NA | 649 | NA | NA | 17 J | NA | NA | NA |
| | | 09/09/10 | NA | 438 | NA | NA | NA | NA | NA | NA |
| | | 04/29/11 | NA | 238 | NA | NA | <6.1 | <0.14 | NA | NA |
| | | 09/01/11 | NA | 572 | NA | NA | NA | NA | NA | NA |
| | | 03/14/12 | NA | 432 | NA | NA | 13 | NA | NA | NA |
| | | 09/12/12 | NA | 24.5 | NA | NA | NA | NA | NA | NA |
| | | 04/30/13 | NA | 478 | NA | NA | 11 J | NA | NA | NA |
| | | 09/17/13 | NA | 509 | NA | NA | 11 J | NA | NA | NA |
| | | 04/21/14 | NA | 332 | NA | NA | 12 J | NA | NA | NA |
| | | 09/17/14 | NA | 302 | NA | NA | 12 J | NA | NA | NA |
| | | 04/14/15 | NA | 448 | NA | NA | 11 | <1.4 | NA | NA |
| | | 09/14/15 | NA | 582 | 660 | NA | 11 | NA | NA | NA |
| | | 03/31/16 | NA | 120 | NA | NA | <6.8 | NA | NA | NA |
| | | 09/22/16 | NA | 363 | NA | NA | NA | NA | NA | NA |
| | | 03/29/17 | NA | 10.1 | NA | NA | <6.8 | NA | NA | NA |
| | | 10/03/17 | NA | 480 | NA | NA | NA | NA | NA | NA |
| | | 04/10/18 | NA | 551 | NA | NA | 9.9 J | NA | NA | NA |
| | | 09/17/18 | NA | 292 | NA | NA | 9.9 J | NA | NA | NA |
| | | 09/26/19 | NA | 76.3 | NA | NA | <6.8 | 2.7 J | NA | NA |
| MW-112 | **** | 06/21/06 | <0.92 | 130,000 | 140,000 | 5.3 | 140 | 180.0 | <0.072 | 34,000 |
| | | 09/20/06 | 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 |
| | | 09/22/08 | NA | 77,400 | NA | NA | 210 | NA | NA | NA |
| | | 04/03/09 | NA | 76,200 | NA | NA | 210 | NA | NA | NA |
| | | 09/01/09 | NA | 69,000 | NA | NA | 150 | NA | NA | NA |

TABLE 5
Historical Groundwater Analytic Test 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-112 | 03/17/10 | NA | 21,500 | NA | NA | 110 | NA | NA | NA | |
| | 09/09/10 | NA | 7,150 | NA | NA | 110 | NA | NA | NA | |
| | 04/29/11 | NA | 1,840 | NA | NA | <6.1 | 2.6 J | NA | NA | |
| | 09/01/11 | NA | 15,600 | NA | NA | 51 | NA | NA | NA | |
| | 03/14/12 | NA | 149 | NA | NA | <6.1 | NA | NA | NA | |
| | 09/12/12 | NA | 18,600 | NA | NA | 32 | NA | NA | NA | |
| | 04/30/13 | NA | 216 | NA | NA | 5.2 J | NA | NA | NA | |
| | 09/17/13 | NA | 2,940 | NA | NA | 5.2 J | NA | NA | NA | |
| | 04/21/14 | NA | 189 | NA | NA | <10 | NA | NA | NA | |
| | 09/17/14 | NA | 2,820 | NA | NA | 0.016 | NA | NA | NA | |
| | 04/14/15 | NA | 274 | NA | NA | 10 | <1.4 | NA | NA | |
| | 09/14/15 | NA | 13,600 | 16,000 | NA | 21 | NA | NA | NA | |
| | 03/31/16 | NA | 1,080 | NA | NA | 8.0 J | NA | NA | NA | |
| | 09/22/16 | NA | 638 | NA | NA | 7.0 J | NA | NA | NA | |
| | 03/29/17 | NA | 240 | NA | NA | <14 | NA | NA | NA | |
| | 10/03/17 | NA | 3,150 | NA | NA | 8.9 J | NA | NA | NA | |
| | 04/10/18 | NA | 5,310 | NA | NA | 14 J | NA | NA | NA | |
| | 09/17/18 | NA | 89.6 | NA | NA | 7.6 J | NA | NA | NA | |
| | 09/26/19 | NA | 305 | NA | NA | <6.8 | 283 | NA | NA | |
| MW-113 | **** | 06/21/06 | <0.92 | 25,000 | 26,000 | 3.4* | 11 | 170.0 | <0.072 | <20 |
| | | 09/20/06 | 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 |
| | | 09/22/08 | NA | 24,300 | NA | NA | NA | NA | NA | NA |
| | | 04/03/09 | NA | 18,800 | NA | NA | NA | NA | NA | NA |
| | | 09/01/09 | NA | 37,400 | NA | NA | NA | NA | NA | NA |
| | | 03/17/10 | NA | 31,300 | NA | NA | NA | NA | NA | NA |
| | | 09/09/10 | NA | 18,400 | NA | NA | NA | NA | NA | NA |
| | | 04/29/11 | NA | 2,760 | NA | NA | NA | <0.14 | NA | NA |
| | | 09/01/11 | NA | 16,700 | NA | NA | NA | NA | NA | NA |
| | | 03/14/12 | NA | 7,460 | NA | NA | NA | NA | NA | NA |
| | | 09/12/12 | NA | 25,800 | NA | NA | NA | NA | NA | NA |
| | | 04/30/13 | NA | 776 | NA | NA | NA | NA | NA | NA |
| | | 09/17/13 | NA | 31,100 | NA | NA | NA | NA | NA | NA |
| | | 04/22/14 | NA | 12,000 | NA | NA | NA | NA | NA | NA |
| | | 09/17/14 | NA | 25,900 | NA | NA | NA | NA | NA | NA |
| | | 04/14/15 | NA | 10,800 | NA | NA | NA | <1.4 | NA | NA |
| | | 09/14/15 | NA | 6,560 | 7,400 | NA | NA | NA | NA | NA |
| | | 03/31/16 | NA | 2,780 | NA | NA | NA | NA | NA | NA |
| | | 09/21/16 | NA | 15,200 | NA | NA | NA | NA | NA | NA |
| | | 03/29/17 | NA | 6,490 | NA | NA | NA | NA | NA | NA |
| | | 10/03/17 | NA | 17,400 | NA | NA | NA | NA | NA | NA |
| | | 04/10/18 | NA | 26,200 | NA | NA | NA | NA | NA | NA |
| | | 09/17/18 | NA | 4,060 | NA | NA | NA | NA | NA | NA |
| | | 09/26/19 | NA | 759 | NA | NA | NA | 5,010 | NA | NA |
| PZ-5 | 07/19/05**** | NA | 1.3* | <5.0 | NA | NA | NA | NA | NA | NA |
| | 09/21/05**** | NA | 0.41* | <5.0 | NA | NA | NA | NA | NA | NA |
| | 03/31/16**** | NA | <2.1 | NA | NA | NA | NA | NA | NA | NA |
| PZ-6 | 07/19/05**** | NA | 1.2* | <5.0 | NA | NA | NA | NA | NA | NA |
| | 09/21/05**** | NA | <0.40 | <5.0 | NA | NA | NA | NA | NA | NA |
| | 03/30/16**** | NA | <2.1 | NA | NA | NA | NA | NA | NA | NA |
| PZ-7 | 07/19/05**** | NA | <0.52 | <5.0 | NA | NA | NA | NA | NA | NA |
| | 09/21/05**** | NA | 0.55* | <5.0 | NA | NA | NA | NA | NA | NA |
| | 03/30/16**** | NA | <2.1 | NA | NA | NA | NA | NA | NA | NA |
| PZ-8 | 07/19/05**** | NA | 1.1* | <5.0 | NA | NA | NA | NA | NA | NA |
| | 09/21/05**** | NA | <0.40 | <5.0 | NA | NA | NA | NA | NA | NA |
| | 04/05/16 | NA | <2.1 | NA | NA | 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.
 **** = OMNNI 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.

TABLE 5
Historical Groundwater Analytic Test 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 |

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
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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* | 0.353* | <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
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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-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 |
| | 03/30/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | 10.1 | <0.20 | <0.33 | <1.0 | <1.5 |
| 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 | 0.23* | *** | <.56 |
| | 03/24/03 | <.35 | <.35 | <.35 | <.39 | <.39 | <.39 | *** | <.37 | <.42 | <.32 | <.42 | *** | <.42 |
| | 04/05/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | <0.33 | <1.0 | <1.5 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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-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 |
| | 03/30/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | <0.33 | <1.0 | <1.5 |
| 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
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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 J | 22.1 | 2.61 J | <2.61 | <2480 | <68 | 265 J | 2.83 | 295 | <2480 | - |
| | 12/12/97 | <10 | <12 | 56 J | 23 | 3 J | <3 | <2500 | <68 | 280 | 3 | 290 | <2500 | - |
| | 03/25/98 | <25 | <30 | 61 J | 69 | 5 J | <5 | <17 | <68 | 720 | 5 | 620 | 17* | - |
| | 06/10/98 | <12 | <15 | 59* | 58 | <3 | <3 | <3100 | 63* | 340 J | 4 J | 390 | <3100 | - |
| | 10/27/98 | <.24 | 1.4 | 62 | 46 J | 3.6 | 0.51 J | <.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 J | <4.2 | *** | <3.2 | 570 | 4.5 J | 880 | *** | <9.2 |
| | 03/13/00 | <26 | <23 | 50 J | 32 J | <12 | <31 | *** | <30 | 340 | <.90 | 630 | *** | <57 |
| | 06/22/00 | <26 | <23 | <29 | 50 J | <12 | <31 | *** | <30 | 540 | <9 | 850 | *** | <57 |
| | 09/27/00 | <26 | <23 | 35 J | 54 J | <12 | <31 | *** | <30 | 560 | <9 | 870 | *** | <57 |
| | 12/19/00 | <6.4 | <5.6 | 36 | 53 | 4.5 J | <7.8 | *** | <7.5 | 480 | 4.1 J | 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 |
| | 09/24/01 | <6.5 | <15 | 36 | 50 | <9 | <6.1 | *** | <6.2 | 480 | <6.5 | 760 | *** | <32 |
| | 12/05/01 | <6.5 | <15 | 40 | 50 | <9 | <6.1 | *** | <6.2 | 500 | <6.5 | 810 | *** | <32 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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-107 | 03/19/02 | <6.0 | <7.5 | 37 J | 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 J | 37 J | <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 J | 41 J | <19 | <19 | *** | <19 | 430 | <16 | 730 | *** | <22 |
| | 12/10/03 | <17 | <18 | 25 J | 31 J | <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 J | 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 J | 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 |
| | 09/22/08 | <2.0 | <6.5 | 38.5 | 34.2 | 4.5 J | <4.4 | *** | <3.4 | 368 | 2.8 J | 679 | *** | <13.2 |
| | 04/03/09 | <2.0 | <6.5 | 22.6 | 22.7 | <4.2 | <4.4 | *** | <3.4 | 283 | <2.1 | 593 | *** | <13.2 |
| | 09/01/09 | <2.0 | <6.5 | 41.4 | 37.7 | <4.2 | <4.4 | *** | <3.4 | 347 | 2.8 J | 715 | *** | <13.2 |
| | 03/17/10 | <2.0 | <6.5 | 25.3 | 29.0 | <4.2 | <4.4 | *** | <3.4 | 276 | <2.1 | 620 | *** | <13.2 |
| | 09/09/10 | <2.0 | <6.5 | 25.8 | 26.7 | <4.2 | <4.4 | *** | <3.4 | 283 | <2.1 | 685 | *** | <13.2 |
| | 04/29/11 | <2.0 | <6.5 | 21.0 | 18.3 | <4.2 | <4.4 | *** | <3.4 | 213 | <2.1 | 551 | *** | <13.2 |
| | 09/01/11 | <2.0 | <6.5 | 31.5 | 26.1 | <4.2 | <4.4 | *** | 5.2 | 297 | 2.3 J | 641 | *** | <13.2 |
| | 03/14/12 | <2.0 | <6.5 | 21.4 | 15.6 | <4.2 | <4.4 | *** | <3.4 | 190 | <2.1 | 463 | *** | <13.2 |
| | 09/11/12 | <2.0 | <6.5 | 32.0 | 30.5 | 4.2 J | <4.4 | <4.2 | <3.4 | 305 | <2.1 | 664 | <9.0 | <13.2 |
| | 04/30/13 | <2.5 | <3.4 | 16.3 | 15.5 | <2.1 | <1.9 | <2.5 | <2.2 | 177 | <1.9 | 460 | <4.1 | <6.6 |
| | 09/17/13 | <5.0 | <6.9 | 3.7 | 11.9 | <4.2 | <3.7 | <5.0 | <4.4 | 174 | <3.9 | 531 | <8.2 | <13.2 |
| | 04/21/14 | <2.5 | <12.5 | 14.9 | 11.7 | 1.7 J | <1.2 | <2.5 | <2.5 | 129 | <0.78 | 399 | <5.0 | <7.5 |
| | 09/16/14 | <2.5 | <12.5 | 5.2 | 10.7 | 2.2 J | <1.3 | <2.5 | <2.5 | 120 | <0.78 | 418 | <5.0 | <7.5 |
| | 04/14/15 | <2.5 | <12.5 | 16.2 | 15.3 | <1.3 | <1.3 | <2.5 | <2.5 | 159 | <0.99 | 382 | <5.0 | <7.5 |
| | 09/14/15 | <2.5 | <12.5 | 25.5 | 19.1 | 2.1 J | <1.3 | *** | <2.5 | 176 | <0.99 | 470 | *** | <7.5 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
 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-107 | 03/30/16 | <2.5 | <12.5 | 9.6 | 10.0 | <1.3 | <1.3 | <2.5 | <2.5 | 101 | <0.99 | 282 | <5.0 | <7.5 |
| | 09/21/16 | <1.2 | <6.2 | 4.9 | 10.5 | 1.4 J | <0.64 | <1.2 | <1.2 | 138 | 0.86 J | 374 | <2.5 | <3.7 |
| | 03/29/17 | <1.2 | <6.2 | 14.0 | 11.7 | 2.3 J | <0.64 | <1.2 | <1.2 | 124 | <0.49 | 364 | <2.5 | <3.7 |
| | 10/03/17 | <1.2 | <6.2 | 34.2 | 23.2 | 2.8 | <0.64 | <1.2 | <1.2 | 212 | <0.49 | 564 | <2.5 | <3.7 |
| | 04/11/18 | <1.2 | <6.2 | 23.1 | 17.6 | 3.0 | <0.64 | <1.2 | <1.2 | 166 | 1.4 J | 445 | <2.5 | <3.7 |
| | 09/17/18 | <0.62 | <3.2 | 24.7 | 16.1 | 2.8 | <2.7 | <0.65 | <0.43 | 142 | <1.4 | 418 | <1.2 | <1.85 |
| | 09/25/19 | <0.62 | <3.2 | 10.9 | 9.5 | 1.2 J | <2.7 | <0.65 | <0.43 | 96.2 | <1.4 | 308 | <1.2 | <1.85 |
| 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 |
| | 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 J | 46 | *** | - |
| | 09/20/06 | - | 0.39* | 1.7* | 2.2 | <0.83 | <0.89 | *** | - | 37 | 0.45 J | 51 | *** | - |
| | 12/19/06 | <0.41 | 0.44* | 2.7 | 1.1* | <0.83 | <0.89 | *** | - | 33 | 0.52 J | 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 |
| | 09/22/08 | <0.41 | <1.3 | 0.98 J | 1.4 | <0.83 | <0.89 | *** | <0.67 | 26.9 | <0.42 | 38.8 | *** | <2.63 |
| | 04/03/09 | <0.41 | <1.3 | 2.4 | 1.1 | <0.83 | <0.89 | *** | <0.67 | 29.6 | <0.42 | 36.3 | *** | <2.63 |
| | 09/01/09 | <0.41 | <1.3 | 1.4 | 2.2 | <0.83 | <0.89 | *** | <0.67 | 35.8 | 0.50 J | 50.8 | *** | <2.63 |
| | 03/17/10 | <0.41 | <1.3 | 2.4 | 1.6 | <0.83 | <0.89 | *** | <0.67 | 27.4 | <0.42 | 37.9 | *** | <2.63 |
| | 09/09/10 | <0.41 | <1.3 | 0.84 J | 1.2 | <0.83 | <0.89 | *** | <0.67 | 23.5 | <0.42 | 41.5 | *** | <2.63 |
| | 04/29/11 | <0.41 | <1.3 | 2.2 | 1.6 | <0.83 | <0.89 | *** | <0.67 | 27.1 | 0.43 J | 38.6 | *** | <13.2 |
| | 09/01/11 | <0.41 | <1.3 | 2.7 | 2.6 | <0.83 | <0.89 | *** | <0.67 | 52.5 | 0.69 J | 66.8 | *** | <2.63 |
| | 03/14/12 | <0.41 | <1.3 | 2.4 | 1.1 | <0.83 | <0.89 | *** | <0.67 | 22.3 | <0.42 | 33.5 | *** | <2.63 |
| | 09/11/12 | <0.41 | <1.3 | 1.1 | 0.91 J | <0.83 | <0.89 | *** | <0.67 | 19.5 | <0.42 | 30.2 | *** | <2.63 |
| | 04/30/13 | <0.50 | <0.69 | 1.8 | 1.0 | <0.42 | <0.37 | *** | <0.44 | 16.7 | <0.39 | 28.7 | *** | <1.32 |
| | 09/17/13 | <0.50 | <0.69 | 0.8 | 0.8 | <0.42 | <0.37 | *** | <0.44 | 12.6 | <0.39 | 26.3 | *** | <1.32 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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-109 | 04/21/14 | <0.50 | <2.5 | 1.9 | 1.0 | <0.26 | <0.24 | *** | <0.50 | 18.9 | 0.27 J | 28.6 | *** | <1.5 |
| | 09/16/14 | <0.50 | <2.5 | 1.0 | 0.89 J | <0.26 | <0.26 | <0.50 | <0.50 | 17.2 | <0.16 | 31.1 | <1.0 | <1.5 |
| | 04/14/15 | <0.50 | <2.5 | 1.5 | 1.1 | <0.26 | <0.26 | <0.50 | <0.50 | 17.8 | <0.20 | 23.5 | <1.0 | <1.5 |
| | 09/14/15 | <0.50 | <2.5 | 1.4 | 1.1 | <0.26 | <0.26 | *** | <0.50 | 24.1 | <0.20 | 38.3 | *** | <1.5 |
| | 03/30/16 | <0.50 | <2.5 | 0.94 J | 1.0 | <0.26 | <0.26 | <0.50 | <0.50 | 15.1 | <0.20 | 22.5 | <1.0 | <1.5 |
| | 09/21/16 | <0.50 | <2.5 | 1.8 | 1.8 | 0.28 J | <0.26 | <0.50 | <0.50 | 31.0 | 0.31 J | 40.6 | <1.0 | <1.5 |
| | 03/29/17 | <0.50 | <2.5 | 1.2 | 1.2 | <0.26 | <0.26 | <0.50 | <0.50 | 17.4 | <0.20 | 24.4 | <1.0 | <1.5 |
| | 10/04/17 | <0.50 | <2.5 | 1.9 | 1.5 | 0.37 J | <0.26 | <0.50 | <0.50 | 26.7 | <0.20 | 39.1 | <1.0 | <1.5 |
| | 04/10/18 | <0.50 | 1.2 | 1.9 | 1.1 | <0.26 | <0.26 | <0.50 | <0.50 | 26.7 | 0.25 J | 25.8 | <1.0 | <1.5 |
| | 09/17/18 | <0.25 | <1.3 | 1.5 | 0.91 J | <0.27 | <1.1 | <0.26 | <0.17 | 17.6 | <0.55 | 27.3 | <0.47 | <0.73 |
| | 09/26/19 | <0.25 | <1.3 | 2.3 | 1.3 J | <0.27 | <1.1 | <0.26 | <0.17 | 23.2 | <0.55 | 35.3 | <0.47 | <0.73 |
| 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 J | *** | - | 1,100 | <4.2 | 30 | *** | - |
| | 12/19/06 | <4.1 | <3.7 | 230 | 240 | 55 | 16 J | *** | <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 J | 23 J | *** | <17 | 1,600 | <10 | 32 J | *** | <2.63 |
| | 04/16/08 | <8.2 | <7.4 | 206 | 195 | 55.9 | <17.8 | *** | <13.4 | 918 | <8.4 | 28.2 | *** | <52.6 |
| | 09/22/08 | <4.1 | <13.0 | 246 | 239 | 73.5 | 29.1 | *** | <6.7 | 1,210 | <4.2 | 45.5 | *** | <26.3 |
| | 04/03/09 | <4.1 | <13.0 | 195 | 188 | 56.5 | 14.0 | *** | <6.7 | 914 | <4.2 | 26.2 | *** | <26.3 |
| | 09/01/09 | <4.1 | <13.0 | 257 | 268 | 74.9 | 16.3 | *** | <6.7 | 1,130 | <4.2 | 44.2 | *** | <26.3 |
| | 03/17/10 | <4.1 | <13.0 | 159 | 169 | 47.3 | 9.8 J | *** | <6.7 | 718 | <4.2 | 29.8 | *** | <26.3 |
| | 09/09/10 | <1.0 | <3.2 | 36.3 | 47.7 | 17.2 | 3.3 | *** | <1.7 | 252 | <1.0 | 23.5 | *** | <6.6 |
| | 04/29/11 | <0.41 | <1.3 | 0.84 J | 0.62 J | <0.83 | <0.89 | *** | <0.67 | 6.6 | <0.42 | 1.0 | *** | <2.63 |
| | 09/01/11 | <0.41 | <1.3 | 32.5 | 40.0 | 22.2 | 3.0 | *** | <0.67 | 232 | 0.87 J | 32.7 | *** | <2.63 |
| | 03/14/12 | <1.6 | <1.3 | 39.6 | 29.9 | 13.4 | 2.3 | *** | <0.67 | 170 | 0.46 J | 15.8 | *** | <2.63 |
| | 09/12/12 | <1.6 | <5.2 | 65.3 | 68.9 | 24.4 | 5.2 | *** | <2.7 | 313 | <1.7 | 22.7 | *** | <10.5 |
| | 04/30/13 | <0.50 | <0.69 | 6.8 | 4.4 | 1.9 | 0.38 J | *** | <0.44 | 28.1 | <0.39 | 4.7 | *** | <1.32 |
| | 09/17/13 | <0.50 | <0.69 | 28.5 | 25.6 | 11.4 | 1.9 | *** | <0.44 | 111 | 0.48 | 18 | *** | <1.32 |
| | 04/22/14 | <0.50 | <2.5 | 3.1 | 1.5 | 0.60 J | <0.24 | *** | <0.50 | 9.6 | <0.16 | 2.4 | *** | <1.5 |
| | 09/17/14 | <0.50 | <2.5 | 24.7 | 19.1 | 10.4 | 1.5 | <0.5 | <0.50 | 115 | 0.38 J | 19.3 | <1.0 | <1.5 |
| | 04/15/15 | <0.50 | <2.5 | 4.1 | 2.3 | 0.96 J | <0.26 | <0.5 | <0.50 | 11.5 | <0.20 | 2.2 | <1.0 | <1.5 |
| C | 09/14/15 | <0.50 | <2.5 | 23.1 | 17.4 | 8.7 | 1.4 | *** | <0.50 | 92.9 | 0.38 J | 19.1 | *** | <1.5 |
| | 03/31/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | <0.33 | <1.0 | <1.5 |
| | 09/21/16 | <0.50 | <2.5 | 23.1 | 19.3 | 9.6 | 1.5 | <0.50 | <0.50 | 86.8 | 0.31 J | 16.5 | <1.0 | <1.5 |
| | 03/29/17 | <0.50 | <2.5 | 1.1 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | 1.3 | <0.20 | 0.43 J | <1.0 | <1.5 |
| | 10/03/17 | <0.50 | <2.5 | 18.3 | 17.1 | 9.0 | 1.6 | <0.50 | <0.50 | 76.0 | <0.20 | 20.4 | <1.0 | <1.5 |
| | 04/10/18 | <0.50 | <2.5 | 5.8 | 2.8 | 1.5 | 0.28 J | <0.50 | <0.50 | 11.4 | <0.20 | 3.6 | <1.0 | <1.5 |
| | 09/17/18 | <0.25 | <1.3 | 10.3 | 3.1 | 1.7 | <1.1 | <0.26 | <0.17 | 16.9 | <0.55 | 6.7 | <0.47 | <0.73 |
| | 09/26/19 | <0.25 | <1.3 | 3.3 | <0.24 | <0.27 | <1.1 | <0.26 | <0.17 | 1.6 | <0.55 | 0.86 J | <0.47 | <0.73 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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-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 |
| | 09/22/08 | <0.41 | <1.3 | 2.6 | 6.7 | <0.83 | <0.89 | *** | <0.67 | 59.0 | 0.53 J | 142 | *** | <2.63 |
| | 04/03/09 | <0.41 | <1.3 | 1.6 | 2.7 | <0.83 | <0.89 | *** | <0.67 | 21.4 | <0.42 | 57.7 | *** | <2.63 |
| | 09/01/09 | <0.41 | <1.3 | 2.5 | 7.5 | <0.83 | <0.89 | *** | <0.67 | 56.8 | 0.51 J | 147 | *** | <2.63 |
| | 03/17/10 | <0.41 | <1.3 | 1.8 | 3.9 | <0.83 | <0.89 | *** | <0.67 | 27.5 | <0.42 | 75.3 | *** | <2.63 |
| | 09/09/10 | <0.41 | <1.3 | 2.2 | 4.5 | <0.83 | <0.89 | *** | <0.67 | 37.5 | <0.42 | 110 | *** | <2.63 |
| | 04/29/11 | <0.41 | <1.3 | 2.0 | 2.7 | <0.83 | <0.89 | *** | <0.67 | 21.1 | <0.42 | 65.0 | *** | <2.63 |
| | 09/01/11 | <0.41 | <1.3 | 2.3 | 4.5 | <0.83 | <0.89 | *** | <0.67 | 39.7 | <0.42 | 109 | *** | <2.63 |
| | 03/14/12 | <0.41 | <1.3 | 2.3 | 2.7 | <0.83 | <0.89 | *** | <0.67 | 23.9 | <0.42 | 62.6 | *** | <2.63 |
| | 09/12/12 | <0.41 | <1.3 | 3.1 | 3.2 | <0.83 | <0.89 | *** | <0.67 | 24.1 | <0.42 | 66.7 | *** | <2.63 |
| | 04/30/13 | <0.50 | <0.69 | 1.8 | 2.9 | <0.42 | <0.37 | *** | <0.44 | 19.8 | <0.39 | 64.1 | *** | <1.32 |
| | 09/17/13 | <0.50 | <0.69 | 2.3 | 4.8 | <0.42 | <0.37 | *** | <0.44 | 32.1 | <0.39 | 108 | *** | <1.32 |
| | 04/21/14 | <0.50 | <2.5 | 1.7 | 2.2 | <0.26 | <0.24 | *** | <0.50 | 18.4 | 0.20 J | 60 | *** | <1.5 |
| | 09/17/14 | <0.50 | <2.5 | 2.7 | 3.9 | <0.26 | <0.26 | <0.50 | <0.50 | 36.9 | 0.30 J | 110 | <1.0 | <1.5 |
| | 04/14/15 | <0.50 | <2.5 | 1.6 | 2.4 | <0.26 | <0.26 | <0.50 | <0.50 | 15.6 | <0.20 | 44.2 | <1.0 | <1.5 |
| | 09/14/15 | <0.50 | <2.5 | 2.3 | 3.9 | <0.26 | <0.26 | *** | <0.50 | 32.1 | <0.20 | 103 | *** | <1.5 |
| E | 03/31/16 | <0.50 | <2.5 | 1.6 | 2.0 | <0.26 | <0.26 | <0.50 | <0.50 | 14.6 | <0.20 | 45.7 | <1.0 | <1.5 |
| | 09/22/16 | <0.50 | <2.5 | 1.8 | 2.7 | <0.26 | <0.26 | <0.50 | <0.50 | 24.7 | <0.20 | 68.4 | <1.0 | <1.5 |
| | 03/29/17 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | 1.9 | <0.20 | 9.0 | <1.0 | <1.5 |
| | 10/04/17 | <0.50 | <2.5 | 1.7 | 2.8 | <0.26 | <0.26 | <0.50 | <0.50 | 21.6 | <0.20 | 74.5 | <1.0 | <1.5 |
| | 04/10/18 | <0.50 | <2.5 | 1.5 | 1.9 | <0.26 | <0.26 | <0.50 | <0.50 | 14.1 | <0.20 | 45.8 | <1.0 | <1.5 |
| | 09/17/18 | <0.25 | <1.3 | 1.7 | 2.2 | <0.27 | <1.1 | <0.26 | <0.17 | 17.2 | <0.55 | 59.4 | <0.47 | <0.73 |
| | 09/26/19 | <0.25 | <1.3 | 0.72 J | 0.82 J | <0.27 | <1.1 | <0.26 | <0.17 | 5.1 | <0.55 | 24.2 | <0.47 | <0.73 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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-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 |
| | 09/22/08 | <4.1 | <13.0 | <7.5 | 5.7 J | <8.3 | <8.9 | *** | <6.7 | 19.0 | <4.2 | 1160 | *** | <26.3 |
| | 04/03/09 | <4.1 | <13.0 | <7.5 | 5.8 J | <8.3 | <8.9 | *** | <6.7 | 20.6 | <4.2 | 1250 | *** | <26.3 |
| | 09/01/09 | <4.1 | <13.0 | <7.5 | 8.2 J | <8.3 | <8.9 | *** | <6.7 | 25.8 | <4.2 | 1600 | *** | <26.3 |
| | 03/17/10 | <4.1 | <13.0 | <7.5 | <5.7 | <8.3 | <8.9 | *** | <6.7 | <9.0 | <4.2 | 556 | *** | <26.3 |
| | 09/09/10 | <4.1 | <13.0 | <7.5 | <5.7 | <8.3 | <8.9 | *** | <6.7 | <9.0 | <4.2 | 546 | *** | <26.3 |
| | 04/29/11 | <0.41 | <1.3 | <0.75 | <0.57 | <0.83 | <0.89 | *** | <0.67 | 0.94 J | <0.42 | 111 | *** | <2.63 |
| | 09/01/11 | <2.0 | <6.5 | <3.8 | <2.8 | <4.2 | <4.4 | *** | <3.4 | 7.5 | <2.1 | 557 | *** | <13.2 |
| | 09/01/11 | <0.41 | <1.3 | <0.75 | <0.57 | <0.83 | <0.89 | *** | <0.67 | <0.90 | <0.42 | 47.9 | *** | <2.63 |
| | 09/12/12 | <2.0 | <6.5 | <3.8 | <2.8 | <4.2 | <4.4 | *** | <3.4 | 7.8 | <2.1 | 623 | *** | <13.2 |
| | 04/30/13 | <0.50 | <0.69 | <0.28 | <0.43 | <0.43 | <0.37 | *** | <0.44 | <0.44 | <0.39 | 75 | *** | <1.32 |
| | 09/17/13 | <2.5 | <3.4 | 1.9 | <2.1 | <2.1 | <1.9 | *** | <2.2 | 3.4 | <1.9 | 474 | *** | <6.6 |
| | 04/21/14 | <0.50 | <2.5 | 0.24 J | <0.41 | <0.26 | <0.24 | *** | <0.50 | <0.50 | <0.16 | 46 | *** | <1.5 |
| | 09/17/14 | <2.5 | <12.5 | 2.1 J | <2.1 | <1.3 | <1.3 | <2.5 | <2.5 | 3.8 J | <0.78 | 493 | <5.0 | <7.5 |
| | 04/14/15 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | 52.4 | <1.0 | <1.5 |
| | 09/14/15 | <0.50 | <2.5 | 1.6 | <0.41 | 0.61 J | <0.26 | *** | <0.50 | 2.5 | <0.20 | 294 | *** | <1.5 |
| | 03/31/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | 31.4 | <1.0 | <1.5 |
| | 09/22/16 | <0.50 | <2.5 | 2.2 | 1.6 | 1.7 | <0.26 | <0.50 | <0.50 | 1.6 | <0.20 | 281 | <1.0 | <1.5 |
| | 03/29/17 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | 64.9 | <1.0 | <1.5 |
| | 10/04/17 | <1.2 | <6.2 | 1.3 J | 1.1 J | 0.96 J | <0.64 | <1.2 | <1.2 | 2.6 | <0.49 | 292 | <2.5 | <3.7 |
| | 04/10/18 | <0.50 | <2.5 | 1.0 | 0.62 J | 1.0 | <0.26 | <0.50 | <0.50 | 1.9 | <0.20 | 205 | <1.0 | <1.5 |
| | 09/17/18 | <0.25 | <1.3 | 1.3 | 0.88 J | 0.99 J | <1.1 | <0.26 | <0.17 | 1.5 | <0.55 | 237 | <0.47 | <0.73 |
| | 09/26/19 | <0.25 | <1.3 | 0.61 J | 0.40 J | 14.8 | <1.1 | <0.26 | <0.17 | 0.58 J | <0.55 | 87.7 | <0.47 | <0.73 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
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-113 | 06/21/06 | - | <0.74 | 37 | 44 | 4.4 J | <1.8 | *** | - | 240 | <0.84 | 92 | *** | - |
| | 09/20/06 | - | <0.37 | 22 | 19 | 3.6 | 1.3 J | *** | - | 120 | 0.82 J | 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 |
| A | 09/28/07 | <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 |
| | 09/22/08 | <4.1 | <13.0 | 28.2 | 17.9 | <8.3 | <8.9 | *** | <6.7 | 134 | <4.2 | 89.4 | *** | <26.3 |
| | 04/03/09 | <0.41 | <1.3 | 21.8 | 13.9 | 4.1 | <0.89 | *** | <0.67 | 107 | <0.42 | 62.2 | *** | <2.63 |
| | 09/01/09 | <1.0 | <3.2 | 51.2 | 70.8 | 13.8 | 4.0 | *** | <1.7 | 356 | 1.4 J | 199 | *** | <6.6 |
| | 03/17/10 | <1.0 | <3.2 | 29.0 | 23.6 | 7.8 | <2.2 | *** | <1.7 | 140 | <1.0 | 96.8 | *** | <6.6 |
| | 09/09/10 | <0.82 | <2.6 | 26.7 | 29.1 | 6.1 | <1.8 | *** | <1.3 | 165 | <0.84 | 77 | *** | <5.3 |
| | 04/29/11 | <0.50 | <1.3 | 6.9 | 5.5 | 1.1 | <0.89 | *** | <0.67 | 37.1 | <0.42 | 21.3 | *** | <2.63 |
| | 09/01/11 | <0.41 | <1.3 | 23.8 | 26.0 | 6.3 | 1.2 | *** | <0.67 | 152 | 0.55 J | 75.9 | *** | <2.63 |
| | 03/14/12 | <0.41 | <1.3 | 17.1 | 17.3 | 2.9 | <0.89 | *** | <0.67 | 106 | <0.42 | 42.3 | *** | <2.63 |
| | 09/12/12 | <2.0 | <6.5 | 50.8 | 59.6 | 12.6 | <4.4 | *** | <3.4 | 320 | <2.1 | 148 | *** | <13.2 |
| | 04/30/13 | <.50 | <0.69 | 6.2 | 5.8 | 0.94 | <0.37 | *** | <3.4 | 34.6 | <2.1 | 14 | *** | <1.32 |
| | 09/17/13 | <2.0 | <2.8 | 47.9 | 74.6 | 16.3 | 4.2 | *** | <1.8 | 284 | <1.6 | 161 | *** | <5.3 |
| B | 04/22/14 | <0.50 | <2.5 | 26.7 | 18.8 | 7.1 | 1.3 | *** | <0.50 | 103 | 0.50 J | 67.4 | *** | <1.5 |
| | 09/17/14 | <0.50 | <2.5 | 54.3 | 38.8 | 14.2 | 2.4 | <0.50 | <0.50 | 231 | 0.89 J | 125 | <1.0 | <1.5 |
| | 04/14/15 | <0.50 | <2.5 | 16.6 | 20.3 | 4.7 | 0.85 J | <0.50 | <0.50 | 97.5 | 0.32 J | 44.7 | <1.0 | <1.5 |
| D | 09/14/15 | <0.50 | <2.5 | 38.0 | 43.6 | 8.4 | 1.7 | *** | <0.50 | 218 | 0.68 J | 76.6 | *** | <1.5 |
| | 03/31/16 | <0.50 | <2.5 | 9.2 | 8.9 | 1.6 | <0.26 | <0.50 | <0.50 | 36.7 | <0.20 | 17.3 | <1.0 | <1.5 |
| | 09/21/16 | <1.2 | <6.2 | 58.7 | 79.3 | 15.4 | 3.4 | <1.2 | <1.2 | 326 | 0.58 J | 95.5 | <2.5 | <3.7 |
| | 03/29/17 | <0.50 | <2.5 | 18.4 | 18.0 | 4.0 | 0.73 J | <0.50 | <0.50 | 80.5 | <0.20 | 34.6 | <1.0 | <1.5 |
| F | 10/03/17 | <0.50 | <2.5 | 45.6 | 65.3 | 14.7 | 3.4 | <0.50 | <0.50 | 260 | <0.20 | 113 | <1.0 | <1.5 |
| | 04/10/18 | <2.5 | <12.5 | 31.0 | 36.5 | 11.5 | 2.2 J | <2.5 | <2.5 | 147 | <0.99 | 82.4 | <5.0 | <7.5 |
| G | 09/17/18 | <0.25 | <1.3 | 23.2 | 23.7 | 5.4 | <1.1 | <0.26 | <0.17 | 100 | <0.55 | 45.2 | <0.47 | <0.73 |
| H | 09/26/19 | <0.25 | <1.3 | 48.3 | 29.5 | 5.2 | 1.2 J | <0.26 | <0.17 | 114 | <0.55 | 41.4 | <0.47 | <0.73 |
| 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 | 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 |
| | 09/21/05 | <0.37 | <0.75 | <0.57 | <0.83 | <0.89 | NA | NA | <0.90 | <0.42 | <0.48 | NA | NA | NA |
| | 03/31/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | <0.33 | <1.0 | <1.5 |
| 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 |
| | 09/21/05 | <0.37 | <0.75 | <0.57 | <0.83 | <0.89 | NA | NA | <0.90 | <0.42 | <0.48 | NA | NA | NA |
| | 03/30/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | <0.33 | <1.0 | <1.5 |
| PZ-7 | 03/30/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | <0.33 | <1.0 | <1.5 |
| PZ-8 | 04/05/16 | <0.50 | <2.5 | <0.24 | <0.41 | <0.26 | <0.26 | <0.50 | <0.50 | <0.50 | <0.20 | <0.33 | <1.0 | <1.5 |

TABLE 6
Historical Groundwater Analytic Test Results--Volatile Organic Compounds
N.W. Mauthe Superfund Site - Appleton, Wisconsin

| | Detected Volatile Organic Compounds ($\mu\text{g/L}$) | | | | | | | | | | | | |
|-----------------|---|------------|--------------------|--------------------|-------------------------|---------------------------|--------------|---------|-----------------------|-----------------------|-----------------|-------------------|---------------|
| | 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 adjusted 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 $\mu\text{g/l}$.

B = Dichlorodifluoromethane detected at 0.17 $\mu\text{g/L}$ and 1,2-Dichloroethane detected at 0.34 $\mu\text{g/L}$

C = 1,2-Dichloroethane was detected at 0.34 J $\mu\text{g/l}$.

D = 1,2-Dichloroethane was detected at 0.47 J $\mu\text{g/l}$.

E = chloromethane was detected at 0.55 J $\mu\text{g/l}$.

F = 1,2-Dichloroethane was detected at 0.63 J $\mu\text{g/l}$ and Methylene Chloride detected at 0.24J $\mu\text{g/l}$

G = 1,2-Dichloroethane was detected at 0.28 J $\mu\text{g/l}$

H = 1,2-Dichloroethane was detected at 0.37 J $\mu\text{g/l}$

ND = Not Detected

NA = Not Analyzed

MCL = Maximum Contaminant Levels

$\mu\text{g/l}$ = 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)

Appendix C

Laboratory Analytic Test Reports and Chain-of-Custody Record
Groundwater Sampling Field Sheets

October 11, 2019

Scott Hodgson
Terracon, Inc. - Franklin
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58117057 NW MAUTHE SUPERFUND
Pace Project No.: 40196093

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 58117057 NW MAUTHE SUPERFUND
Pace Project No.: 40196093

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 40196093001 | W-2 | Water | 09/25/19 12:48 | 09/27/19 13:30 |
| 40196093002 | W-8 | Water | 09/25/19 14:40 | 09/27/19 13:30 |
| 40196093003 | W-15 | Water | 09/25/19 14:10 | 09/27/19 13:30 |
| 40196093004 | MW-101 | Water | 09/25/19 11:50 | 09/27/19 13:30 |
| 40196093005 | MW-103 | Water | 09/25/19 15:38 | 09/27/19 13:30 |
| 40196093006 | MW-104 | Water | 09/25/19 15:31 | 09/27/19 13:30 |
| 40196093007 | MW-106 | Water | 09/25/19 14:30 | 09/27/19 13:30 |
| 40196093008 | MW-107 | Water | 09/25/19 16:43 | 09/27/19 13:30 |
| 40196093009 | MW-108 | Water | 09/25/19 12:43 | 09/27/19 13:30 |
| 40196093010 | MW-109 | Water | 09/26/19 08:50 | 09/27/19 13:30 |
| 40196093011 | MW-110 | Water | 09/26/19 12:03 | 09/27/19 13:30 |
| 40196093012 | MW-111 | Water | 09/26/19 09:34 | 09/27/19 13:30 |
| 40196093013 | MW-112 | Water | 09/26/19 10:28 | 09/27/19 13:30 |
| 40196093014 | MW-113 | Water | 09/26/19 11:20 | 09/27/19 13:30 |
| 40196093015 | BD-1 | Water | 09/26/19 09:34 | 09/27/19 13:30 |
| 40196093016 | TB | Water | 09/26/19 00:00 | 09/27/19 13:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 58117057 NW MAUTHE SUPERFUND
Pace Project No.: 40196093

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-----------|----------|-------------------|------------|
| 40196093001 | W-2 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093002 | W-8 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093003 | W-15 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093004 | MW-101 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093005 | MW-103 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093006 | MW-104 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093007 | MW-106 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093008 | MW-107 | EPA 6010 | TXW | 3 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| 40196093009 | MW-108 | EPA 6010 | TXW | 3 | PASI-G |
| 40196093010 | MW-109 | EPA 6010 | TXW | 3 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| 40196093011 | MW-110 | EPA 6010 | TXW | 3 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | EPA 335.4 | DAW | 1 | PASI-G |
| 40196093012 | MW-111 | EPA 6010 | TXW | 3 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | EPA 335.4 | DAW | 1 | PASI-G |
| 40196093013 | MW-112 | EPA 6010 | TXW | 3 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | EPA 335.4 | DAW | 1 | PASI-G |
| 40196093014 | MW-113 | EPA 6010 | TXW | 3 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| 40196093015 | BD-1 | EPA 6010 | TXW | 3 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | EPA 335.4 | DAW | 1 | PASI-G |
| 40196093016 | TB | EPA 8260 | SMT | 64 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Lab Sample ID | Client Sample ID | | | | | | |
|--------------------|------------------------|--------|-------|--------------|----------------|------------|--|
| Method | Parameters | Result | Units | Report Limit | Analyzed | Qualifiers | |
| 40196093001 | W-2 | | | | | | |
| EPA 6010 | Iron, Dissolved | 1900 | ug/L | 100 | 10/02/19 00:47 | | |
| EPA 6010 | Manganese, Dissolved | 271 | ug/L | 5.0 | 10/02/19 00:47 | | |
| 40196093003 | W-15 | | | | | | |
| EPA 6010 | Manganese, Dissolved | 4.8J | ug/L | 5.0 | 10/02/19 00:52 | | |
| 40196093004 | MW-101 | | | | | | |
| EPA 6010 | Manganese, Dissolved | 3.0J | ug/L | 5.0 | 10/02/19 00:54 | | |
| 40196093005 | MW-103 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 4.4J | ug/L | 10.0 | 10/02/19 01:02 | | |
| EPA 6010 | Manganese, Dissolved | 4.1J | ug/L | 5.0 | 10/02/19 01:02 | | |
| 40196093006 | MW-104 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 3.8J | ug/L | 10.0 | 10/02/19 01:04 | | |
| EPA 6010 | Iron, Dissolved | 2750 | ug/L | 100 | 10/02/19 01:04 | | |
| EPA 6010 | Manganese, Dissolved | 244 | ug/L | 5.0 | 10/02/19 01:04 | | |
| 40196093007 | MW-106 | | | | | | |
| EPA 6010 | Manganese, Dissolved | 55.2 | ug/L | 5.0 | 10/02/19 01:07 | | |
| 40196093008 | MW-107 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 1300 | ug/L | 10.0 | 10/02/19 01:09 | | |
| EPA 6010 | Manganese, Dissolved | 3.5J | ug/L | 5.0 | 10/02/19 01:09 | | |
| EPA 8260 | 1,1-Dichloroethane | 10.9 | ug/L | 2.5 | 10/02/19 00:58 | | |
| EPA 8260 | 1,1-Dichloroethene | 9.5 | ug/L | 2.5 | 10/02/19 00:58 | | |
| EPA 8260 | cis-1,2-Dichloroethene | 1.2J | ug/L | 2.5 | 10/02/19 00:58 | | |
| EPA 8260 | 1,1,1-Trichloroethane | 96.2 | ug/L | 2.5 | 10/02/19 00:58 | | |
| EPA 8260 | Trichloroethene | 308 | ug/L | 2.5 | 10/02/19 00:58 | | |
| 40196093009 | MW-108 | | | | | | |
| EPA 6010 | Iron, Dissolved | 37.9J | ug/L | 100 | 10/02/19 01:12 | | |
| EPA 6010 | Manganese, Dissolved | 79.9 | ug/L | 5.0 | 10/02/19 01:12 | | |
| 40196093010 | MW-109 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 339 | ug/L | 10.0 | 10/02/19 01:14 | | |
| EPA 6010 | Manganese, Dissolved | 18.3 | ug/L | 5.0 | 10/02/19 01:14 | | |
| EPA 8260 | 1,1-Dichloroethane | 2.3 | ug/L | 1.0 | 10/01/19 23:00 | | |
| EPA 8260 | 1,1-Dichloroethene | 1.3 | ug/L | 1.0 | 10/01/19 23:00 | | |
| EPA 8260 | cis-1,2-Dichloroethene | 23.2 | ug/L | 1.0 | 10/01/19 23:00 | | |
| EPA 8260 | 1,1,1-Trichloroethane | 35.3 | ug/L | 1.0 | 10/01/19 23:00 | | |
| 40196093011 | MW-110 | | | | | | |
| EPA 6010 | Iron, Dissolved | 1080 | ug/L | 100 | 10/02/19 02:35 | | |
| EPA 6010 | Manganese, Dissolved | 542 | ug/L | 5.0 | 10/02/19 02:35 | | |
| EPA 8260 | 1,1-Dichloroethane | 3.3 | ug/L | 1.0 | 10/01/19 23:20 | | |
| EPA 8260 | 1,1,1-Trichloroethane | 1.6 | ug/L | 1.0 | 10/01/19 23:20 | | |
| EPA 8260 | Trichloroethene | 0.86J | ug/L | 1.0 | 10/01/19 23:20 | | |
| 40196093012 | MW-111 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 76.3 | ug/L | 10.0 | 10/02/19 02:43 | | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Lab Sample ID | Client Sample ID | | | | | | |
|--------------------|--------------------------|--------|-------|--------------|----------------|------------|--|
| Method | Parameters | Result | Units | Report Limit | Analyzed | Qualifiers | |
| 40196093012 | MW-111 | | | | | | |
| EPA 6010 | Manganese, Dissolved | 2.7J | ug/L | 5.0 | 10/02/19 02:43 | | |
| EPA 8260 | 1,1-Dichloroethane | 0.72J | ug/L | 1.0 | 10/01/19 23:40 | | |
| EPA 8260 | 1,1-Dichloroethene | 0.82J | ug/L | 1.0 | 10/01/19 23:40 | | |
| EPA 8260 | 1,1,1-Trichloroethane | 5.1 | ug/L | 1.0 | 10/01/19 23:40 | | |
| EPA 8260 | Trichloroethene | 24.2 | ug/L | 1.0 | 10/01/19 23:40 | | |
| 40196093013 | MW-112 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 305 | ug/L | 10.0 | 10/02/19 02:45 | | |
| EPA 6010 | Iron, Dissolved | 30.6J | ug/L | 100 | 10/02/19 02:45 | | |
| EPA 6010 | Manganese, Dissolved | 283 | ug/L | 5.0 | 10/02/19 02:45 | | |
| EPA 8260 | 1,1-Dichloroethane | 0.61J | ug/L | 1.0 | 10/02/19 00:00 | | |
| EPA 8260 | 1,1-Dichloroethene | 0.40J | ug/L | 1.0 | 10/02/19 00:00 | | |
| EPA 8260 | cis-1,2-Dichloroethene | 14.8 | ug/L | 1.0 | 10/02/19 00:00 | | |
| EPA 8260 | 1,1,1-Trichloroethane | 0.58J | ug/L | 1.0 | 10/02/19 00:00 | | |
| EPA 8260 | Trichloroethene | 87.7 | ug/L | 1.0 | 10/02/19 00:00 | | |
| 40196093014 | MW-113 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 759 | ug/L | 10.0 | 10/02/19 02:48 | | |
| EPA 6010 | Iron, Dissolved | 855 | ug/L | 100 | 10/02/19 02:48 | | |
| EPA 6010 | Manganese, Dissolved | 5010 | ug/L | 5.0 | 10/02/19 02:48 | | |
| EPA 8260 | 1,1-Dichloroethane | 48.3 | ug/L | 1.0 | 10/02/19 00:39 | | |
| EPA 8260 | 1,2-Dichloroethane | 0.37J | ug/L | 1.0 | 10/02/19 00:39 | | |
| EPA 8260 | 1,1-Dichloroethene | 29.5 | ug/L | 1.0 | 10/02/19 00:39 | | |
| EPA 8260 | cis-1,2-Dichloroethene | 5.2 | ug/L | 1.0 | 10/02/19 00:39 | | |
| EPA 8260 | trans-1,2-Dichloroethene | 1.2J | ug/L | 3.6 | 10/02/19 00:39 | | |
| EPA 8260 | 1,1,1-Trichloroethane | 114 | ug/L | 1.0 | 10/02/19 00:39 | | |
| EPA 8260 | Trichloroethene | 41.4 | ug/L | 1.0 | 10/02/19 00:39 | | |
| 40196093015 | BD-1 | | | | | | |
| EPA 6010 | Chromium, Dissolved | 63.3 | ug/L | 10.0 | 10/02/19 02:50 | | |
| EPA 6010 | Manganese, Dissolved | 1.5J | ug/L | 5.0 | 10/02/19 02:50 | | |
| EPA 8260 | 1,1-Dichloroethane | 1.0 | ug/L | 1.0 | 10/02/19 00:19 | | |
| EPA 8260 | 1,1-Dichloroethene | 0.69J | ug/L | 1.0 | 10/02/19 00:19 | | |
| EPA 8260 | 1,1,1-Trichloroethane | 6.5 | ug/L | 1.0 | 10/02/19 00:19 | | |
| EPA 8260 | Trichloroethene | 27.9 | ug/L | 1.0 | 10/02/19 00:19 | | |

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Method: **EPA 6010**

Description: 6010 MET ICP, Dissolved

Client: Terracon, Inc. - Franklin

Date: October 11, 2019

General Information:

15 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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, where applicable, 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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Method: EPA 8260

Description: 8260 MSV

Client: Terracon, Inc. - Franklin

Date: October 11, 2019

General Information:

8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

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.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Method: EPA 335.4

Description: 335.4 Cyanide, Total

Client: Terracon, Inc. - Franklin

Date: October 11, 2019

General Information:

4 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 335.4 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, 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.

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: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: W-2 Lab ID: **40196093001** Collected: 09/25/19 12:48 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | <2.5 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 00:47 | 7440-47-3 | |
| Iron, Dissolved | 1900 | ug/L | 100 | 29.6 | 1 | | 10/02/19 00:47 | 7439-89-6 | |
| Manganese, Dissolved | 271 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 00:47 | 7439-96-5 | |

Sample: W-8 Lab ID: **40196093002** Collected: 09/25/19 14:40 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | <2.5 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 00:49 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 00:49 | 7439-89-6 | |
| Manganese, Dissolved | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 00:49 | 7439-96-5 | |

Sample: W-15 Lab ID: **40196093003** Collected: 09/25/19 14:10 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | <2.5 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 00:52 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 00:52 | 7439-89-6 | |
| Manganese, Dissolved | 4.8J | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 00:52 | 7439-96-5 | |

Sample: MW-101 Lab ID: **40196093004** Collected: 09/25/19 11:50 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | <2.5 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 00:54 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 00:54 | 7439-89-6 | |
| Manganese, Dissolved | 3.0J | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 00:54 | 7439-96-5 | |

Sample: MW-103 Lab ID: **40196093005** Collected: 09/25/19 15:38 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 4.4J | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 01:02 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 01:02 | 7439-89-6 | |
| Manganese, Dissolved | 4.1J | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 01:02 | 7439-96-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-104 Lab ID: **40196093006** Collected: 09/25/19 15:31 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 3.8J | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 01:04 | 7440-47-3 | |
| Iron, Dissolved | 2750 | ug/L | 100 | 29.6 | 1 | | 10/02/19 01:04 | 7439-89-6 | |
| Manganese, Dissolved | 244 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 01:04 | 7439-96-5 | |

Sample: MW-106 Lab ID: **40196093007** Collected: 09/25/19 14:30 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | <2.5 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 01:07 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 01:07 | 7439-89-6 | |
| Manganese, Dissolved | 55.2 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 01:07 | 7439-96-5 | |

Sample: MW-107 Lab ID: **40196093008** Collected: 09/25/19 16:43 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|-----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 1300 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 01:09 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 01:09 | 7439-89-6 | |
| Manganese, Dissolved | 3.5J | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 01:09 | 7439-96-5 | |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | <0.62 | ug/L | 2.5 | 0.62 | 2.5 | | 10/02/19 00:58 | 71-43-2 | |
| Bromobenzene | <0.60 | ug/L | 2.5 | 0.60 | 2.5 | | 10/02/19 00:58 | 108-86-1 | |
| Bromochloromethane | <0.91 | ug/L | 12.5 | 0.91 | 2.5 | | 10/02/19 00:58 | 74-97-5 | |
| Bromodichloromethane | <0.91 | ug/L | 3.0 | 0.91 | 2.5 | | 10/02/19 00:58 | 75-27-4 | |
| Bromoform | <9.9 | ug/L | 33.1 | 9.9 | 2.5 | | 10/02/19 00:58 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 12.5 | 2.4 | 2.5 | | 10/02/19 00:58 | 74-83-9 | |
| n-Butylbenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 10/02/19 00:58 | 104-51-8 | |
| sec-Butylbenzene | <2.1 | ug/L | 12.5 | 2.1 | 2.5 | | 10/02/19 00:58 | 135-98-8 | |
| tert-Butylbenzene | <0.76 | ug/L | 2.5 | 0.76 | 2.5 | | 10/02/19 00:58 | 98-06-6 | |
| Carbon tetrachloride | <0.41 | ug/L | 2.5 | 0.41 | 2.5 | | 10/02/19 00:58 | 56-23-5 | |
| Chlorobenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 10/02/19 00:58 | 108-90-7 | |
| Chloroethane | <3.4 | ug/L | 12.5 | 3.4 | 2.5 | | 10/02/19 00:58 | 75-00-3 | |
| Chloroform | <3.2 | ug/L | 12.5 | 3.2 | 2.5 | | 10/02/19 00:58 | 67-66-3 | |
| Chloromethane | <5.5 | ug/L | 18.2 | 5.5 | 2.5 | | 10/02/19 00:58 | 74-87-3 | |
| 2-Chlorotoluene | <2.3 | ug/L | 12.5 | 2.3 | 2.5 | | 10/02/19 00:58 | 95-49-8 | |
| 4-Chlorotoluene | <1.9 | ug/L | 6.3 | 1.9 | 2.5 | | 10/02/19 00:58 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <4.4 | ug/L | 14.7 | 4.4 | 2.5 | | 10/02/19 00:58 | 96-12-8 | |
| Dibromochloromethane | <6.5 | ug/L | 21.7 | 6.5 | 2.5 | | 10/02/19 00:58 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <2.1 | ug/L | 6.9 | 2.1 | 2.5 | | 10/02/19 00:58 | 106-93-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-107 **Lab ID: 40196093008** Collected: 09/25/19 16:43 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------|-----------------------------|-------|--------|------|-----|----------|----------------|-------------|------|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Dibromomethane | <2.3 | ug/L | 7.8 | 2.3 | 2.5 | | 10/02/19 00:58 | 74-95-3 | |
| 1,2-Dichlorobenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 10/02/19 00:58 | 95-50-1 | |
| 1,3-Dichlorobenzene | <1.6 | ug/L | 5.2 | 1.6 | 2.5 | | 10/02/19 00:58 | 541-73-1 | |
| 1,4-Dichlorobenzene | <2.4 | ug/L | 7.9 | 2.4 | 2.5 | | 10/02/19 00:58 | 106-46-7 | |
| Dichlorodifluoromethane | <1.2 | ug/L | 12.5 | 1.2 | 2.5 | | 10/02/19 00:58 | 75-71-8 | |
| 1,1-Dichloroethane | 10.9 | ug/L | 2.5 | 0.68 | 2.5 | | 10/02/19 00:58 | 75-34-3 | |
| 1,2-Dichloroethane | <0.70 | ug/L | 2.5 | 0.70 | 2.5 | | 10/02/19 00:58 | 107-06-2 | |
| 1,1-Dichloroethene | 9.5 | ug/L | 2.5 | 0.61 | 2.5 | | 10/02/19 00:58 | 75-35-4 | |
| cis-1,2-Dichloroethene | 1.2J | ug/L | 2.5 | 0.68 | 2.5 | | 10/02/19 00:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | <2.7 | ug/L | 9.1 | 2.7 | 2.5 | | 10/02/19 00:58 | 156-60-5 | |
| 1,2-Dichloropropane | <0.71 | ug/L | 2.5 | 0.71 | 2.5 | | 10/02/19 00:58 | 78-87-5 | |
| 1,3-Dichloropropane | <2.1 | ug/L | 6.9 | 2.1 | 2.5 | | 10/02/19 00:58 | 142-28-9 | |
| 2,2-Dichloropropane | <5.7 | ug/L | 18.9 | 5.7 | 2.5 | | 10/02/19 00:58 | 594-20-7 | |
| 1,1-Dichloropropene | <1.4 | ug/L | 4.5 | 1.4 | 2.5 | | 10/02/19 00:58 | 563-58-6 | |
| cis-1,3-Dichloropropene | <9.1 | ug/L | 30.2 | 9.1 | 2.5 | | 10/02/19 00:58 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <10.9 | ug/L | 36.4 | 10.9 | 2.5 | | 10/02/19 00:58 | 10061-02-6 | |
| Diisopropyl ether | <4.7 | ug/L | 15.7 | 4.7 | 2.5 | | 10/02/19 00:58 | 108-20-3 | |
| Ethylbenzene | <0.55 | ug/L | 2.5 | 0.55 | 2.5 | | 10/02/19 00:58 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <3.0 | ug/L | 12.5 | 3.0 | 2.5 | | 10/02/19 00:58 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.98 | ug/L | 12.5 | 0.98 | 2.5 | | 10/02/19 00:58 | 98-82-8 | |
| p-Isopropyltoluene | <2.0 | ug/L | 6.7 | 2.0 | 2.5 | | 10/02/19 00:58 | 99-87-6 | |
| Methylene Chloride | <1.5 | ug/L | 12.5 | 1.5 | 2.5 | | 10/02/19 00:58 | 75-09-2 | |
| Methyl-tert-butyl ether | <3.1 | ug/L | 10.4 | 3.1 | 2.5 | | 10/02/19 00:58 | 1634-04-4 | |
| Naphthalene | <2.9 | ug/L | 12.5 | 2.9 | 2.5 | | 10/02/19 00:58 | 91-20-3 | |
| n-Propylbenzene | <2.0 | ug/L | 12.5 | 2.0 | 2.5 | | 10/02/19 00:58 | 103-65-1 | |
| Styrene | <1.2 | ug/L | 3.9 | 1.2 | 2.5 | | 10/02/19 00:58 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.67 | ug/L | 2.5 | 0.67 | 2.5 | | 10/02/19 00:58 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.69 | ug/L | 2.5 | 0.69 | 2.5 | | 10/02/19 00:58 | 79-34-5 | |
| Tetrachloroethene | <0.82 | ug/L | 2.7 | 0.82 | 2.5 | | 10/02/19 00:58 | 127-18-4 | |
| Toluene | <0.43 | ug/L | 12.5 | 0.43 | 2.5 | | 10/02/19 00:58 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <1.6 | ug/L | 12.5 | 1.6 | 2.5 | | 10/02/19 00:58 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.4 | ug/L | 12.5 | 2.4 | 2.5 | | 10/02/19 00:58 | 120-82-1 | |
| 1,1,1-Trichloroethane | 96.2 | ug/L | 2.5 | 0.61 | 2.5 | | 10/02/19 00:58 | 71-55-6 | |
| 1,1,2-Trichloroethane | <1.4 | ug/L | 12.5 | 1.4 | 2.5 | | 10/02/19 00:58 | 79-00-5 | |
| Trichloroethene | 308 | ug/L | 2.5 | 0.64 | 2.5 | | 10/02/19 00:58 | 79-01-6 | |
| Trichlorofluoromethane | <0.54 | ug/L | 2.5 | 0.54 | 2.5 | | 10/02/19 00:58 | 75-69-4 | |
| 1,2,3-Trichloropropane | <1.5 | ug/L | 12.5 | 1.5 | 2.5 | | 10/02/19 00:58 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <2.1 | ug/L | 7.0 | 2.1 | 2.5 | | 10/02/19 00:58 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <2.2 | ug/L | 7.3 | 2.2 | 2.5 | | 10/02/19 00:58 | 108-67-8 | |
| Vinyl chloride | <0.44 | ug/L | 2.5 | 0.44 | 2.5 | | 10/02/19 00:58 | 75-01-4 | |
| m&p-Xylene | <1.2 | ug/L | 5.0 | 1.2 | 2.5 | | 10/02/19 00:58 | 179601-23-1 | |
| o-Xylene | <0.65 | ug/L | 2.5 | 0.65 | 2.5 | | 10/02/19 00:58 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 2.5 | | 10/02/19 00:58 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 2.5 | | 10/02/19 00:58 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 2.5 | | 10/02/19 00:58 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Sample: MW-108 | Lab ID: 40196093009 | Collected: 09/25/19 12:43 | Received: 09/27/19 13:30 | Matrix: Water | | | | | |
|--------------------------------|-----------------------------|---------------------------|--------------------------|---------------|----|----------|----------------|-----------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | <2.5 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 01:12 | 7440-47-3 | |
| Iron, Dissolved | 37.9J | ug/L | 100 | 29.6 | 1 | | 10/02/19 01:12 | 7439-89-6 | |
| Manganese, Dissolved | 79.9 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 01:12 | 7439-96-5 | |
| Sample: MW-109 | Lab ID: 40196093010 | Collected: 09/26/19 08:50 | Received: 09/27/19 13:30 | Matrix: Water | | | | | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 339 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 01:14 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 01:14 | 7439-89-6 | |
| Manganese, Dissolved | 18.3 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 01:14 | 7439-96-5 | |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/01/19 23:00 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:00 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 10/01/19 23:00 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/01/19 23:00 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/01/19 23:00 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/01/19 23:00 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:00 | 104-51-8 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 10/01/19 23:00 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 10/01/19 23:00 | 98-06-6 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 23:00 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:00 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 23:00 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 23:00 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/01/19 23:00 | 74-87-3 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 10/01/19 23:00 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 10/01/19 23:00 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/01/19 23:00 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/01/19 23:00 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 23:00 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 23:00 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:00 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/01/19 23:00 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 23:00 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/01/19 23:00 | 75-71-8 | |
| 1,1-Dichloroethane | 2.3 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:00 | 75-34-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:00 | 107-06-2 | |
| 1,1-Dichloroethene | 1.3 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:00 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:00 | 156-59-2 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/01/19 23:00 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:00 | 78-87-5 | |

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-109 Lab ID: **40196093010** Collected: 09/26/19 08:50 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------|-----------------------------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 23:00 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 10/01/19 23:00 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 10/01/19 23:00 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/01/19 23:00 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/01/19 23:00 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 10/01/19 23:00 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 10/01/19 23:00 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 23:00 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 10/01/19 23:00 | 98-82-8 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 10/01/19 23:00 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/01/19 23:00 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/01/19 23:00 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 23:00 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 10/01/19 23:00 | 103-65-1 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 10/01/19 23:00 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:00 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:00 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/01/19 23:00 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 10/01/19 23:00 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 10/01/19 23:00 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 10/01/19 23:00 | 120-82-1 | |
| 1,1,1-Trichloroethane | 23.2 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:00 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/01/19 23:00 | 79-00-5 | |
| Trichloroethene | 35.3 | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 23:00 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/01/19 23:00 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 10/01/19 23:00 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 10/01/19 23:00 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 10/01/19 23:00 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 23:00 | 75-01-4 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 10/01/19 23:00 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 23:00 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/01/19 23:00 | 460-00-4 | |
| Dibromofluoromethane (S) | 105 | % | 70-130 | | 1 | | 10/01/19 23:00 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 10/01/19 23:00 | 2037-26-5 | |

Sample: MW-110 Lab ID: **40196093011** Collected: 09/26/19 12:03 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | <2.5 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 02:35 | 7440-47-3 | |
| Iron, Dissolved | 1080 | ug/L | 100 | 29.6 | 1 | | 10/02/19 02:35 | 7439-89-6 | |
| Manganese, Dissolved | 542 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 02:35 | 7439-96-5 | |

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND
Pace Project No.: 40196093

Sample: MW-110 Lab ID: **40196093011** Collected: 09/26/19 12:03 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/01/19 23:20 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:20 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 10/01/19 23:20 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/01/19 23:20 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/01/19 23:20 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/01/19 23:20 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:20 | 104-51-8 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 10/01/19 23:20 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 10/01/19 23:20 | 98-06-6 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 23:20 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:20 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 23:20 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 23:20 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/01/19 23:20 | 74-87-3 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 10/01/19 23:20 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 10/01/19 23:20 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/01/19 23:20 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/01/19 23:20 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 23:20 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 23:20 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:20 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/01/19 23:20 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 23:20 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/01/19 23:20 | 75-71-8 | |
| 1,1-Dichloroethane | 3.3 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:20 | 75-34-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:20 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:20 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/01/19 23:20 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:20 | 78-87-5 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 23:20 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 10/01/19 23:20 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 10/01/19 23:20 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/01/19 23:20 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/01/19 23:20 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 10/01/19 23:20 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 10/01/19 23:20 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 23:20 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 10/01/19 23:20 | 98-82-8 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 10/01/19 23:20 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/01/19 23:20 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/01/19 23:20 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 23:20 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 10/01/19 23:20 | 103-65-1 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 10/01/19 23:20 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:20 | 630-20-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-110 Lab ID: 40196093011 Collected: 09/26/19 12:03 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|--|-------|--------|--------|----|----------------|----------------|-------------|------|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:20 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/01/19 23:20 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 10/01/19 23:20 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 10/01/19 23:20 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 10/01/19 23:20 | 120-82-1 | |
| 1,1,1-Trichloroethane | 1.6 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:20 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/01/19 23:20 | 79-00-5 | |
| Trichloroethene | 0.86J | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 23:20 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/01/19 23:20 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 10/01/19 23:20 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 10/01/19 23:20 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 10/01/19 23:20 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 23:20 | 75-01-4 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 10/01/19 23:20 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 23:20 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 10/01/19 23:20 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | | 1 | | 10/01/19 23:20 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 10/01/19 23:20 | 2037-26-5 | |
| 335.4 Cyanide, Total | Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 | | | | | | | | |
| Cyanide | <0.0068 | mg/L | 0.023 | 0.0068 | 1 | 10/03/19 10:35 | 10/03/19 15:08 | 57-12-5 | |

Sample: MW-111 Lab ID: 40196093012 Collected: 09/26/19 09:34 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 76.3 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 02:43 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 02:43 | 7439-89-6 | |
| Manganese, Dissolved | 2.7J | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 02:43 | 7439-96-5 | |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/01/19 23:40 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:40 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 10/01/19 23:40 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/01/19 23:40 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/01/19 23:40 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/01/19 23:40 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:40 | 104-51-8 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 10/01/19 23:40 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 10/01/19 23:40 | 98-06-6 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 23:40 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:40 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-111 **Lab ID: 40196093012** Collected: 09/26/19 09:34 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|-----------------------------|-------|------|------|----|----------|----------------|------------|------|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 23:40 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 23:40 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/01/19 23:40 | 74-87-3 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 10/01/19 23:40 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 10/01/19 23:40 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/01/19 23:40 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/01/19 23:40 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 23:40 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 23:40 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 23:40 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/01/19 23:40 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 23:40 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/01/19 23:40 | 75-71-8 | |
| 1,1-Dichloroethane | 0.72J | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:40 | 75-34-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:40 | 107-06-2 | |
| 1,1-Dichloroethene | 0.82J | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:40 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:40 | 156-59-2 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/01/19 23:40 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:40 | 78-87-5 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 23:40 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 10/01/19 23:40 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 10/01/19 23:40 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/01/19 23:40 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/01/19 23:40 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 10/01/19 23:40 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 10/01/19 23:40 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 23:40 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 10/01/19 23:40 | 98-82-8 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 10/01/19 23:40 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/01/19 23:40 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/01/19 23:40 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 23:40 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 10/01/19 23:40 | 103-65-1 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 10/01/19 23:40 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 23:40 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 23:40 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/01/19 23:40 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 10/01/19 23:40 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 10/01/19 23:40 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 10/01/19 23:40 | 120-82-1 | |
| 1,1,1-Trichloroethane | 5.1 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 23:40 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/01/19 23:40 | 79-00-5 | |
| Trichloroethene | 24.2 | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 23:40 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/01/19 23:40 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 10/01/19 23:40 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 10/01/19 23:40 | 95-63-6 | |

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Sample: MW-111 | Lab ID: 40196093012 | Collected: 09/26/19 09:34 | Received: 09/27/19 13:30 | Matrix: Water | | | | | |
|--------------------------------|--|---------------------------|--------------------------|---------------|----|----------------|----------------|-------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 10/01/19 23:40 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 23:40 | 75-01-4 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 10/01/19 23:40 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 23:40 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 10/01/19 23:40 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | | 1 | | 10/01/19 23:40 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 10/01/19 23:40 | 2037-26-5 | |
| 335.4 Cyanide, Total | Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 | | | | | | | | |
| Cyanide | <0.0068 | mg/L | 0.023 | 0.0068 | 1 | 10/03/19 10:35 | 10/03/19 15:11 | 57-12-5 | |
| Sample: MW-112 | Lab ID: 40196093013 | Collected: 09/26/19 10:28 | Received: 09/27/19 13:30 | Matrix: Water | | | | | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 305 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 02:45 | 7440-47-3 | |
| Iron, Dissolved | 30.6J | ug/L | 100 | 29.6 | 1 | | 10/02/19 02:45 | 7439-89-6 | |
| Manganese, Dissolved | 283 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 02:45 | 7439-96-5 | |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/02/19 00:00 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:00 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 10/02/19 00:00 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/02/19 00:00 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/02/19 00:00 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/02/19 00:00 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:00 | 104-51-8 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 10/02/19 00:00 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 10/02/19 00:00 | 98-06-6 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/02/19 00:00 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:00 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/02/19 00:00 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/02/19 00:00 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/02/19 00:00 | 74-87-3 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 10/02/19 00:00 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 10/02/19 00:00 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/02/19 00:00 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/02/19 00:00 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/02/19 00:00 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/02/19 00:00 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:00 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/02/19 00:00 | 541-73-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-112 Lab ID: **40196093013** Collected: 09/26/19 10:28 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|--|-------|--------|--------|----|----------------|----------------|-------------|------|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/02/19 00:00 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/02/19 00:00 | 75-71-8 | |
| 1,1-Dichloroethane | 0.61J | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:00 | 75-34-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:00 | 107-06-2 | |
| 1,1-Dichloroethene | 0.40J | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:00 | 75-35-4 | |
| cis-1,2-Dichloroethene | 14.8 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:00 | 156-59-2 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/02/19 00:00 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:00 | 78-87-5 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/02/19 00:00 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 10/02/19 00:00 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 10/02/19 00:00 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/02/19 00:00 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/02/19 00:00 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 10/02/19 00:00 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 10/02/19 00:00 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/02/19 00:00 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 10/02/19 00:00 | 98-82-8 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 10/02/19 00:00 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/02/19 00:00 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/02/19 00:00 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/02/19 00:00 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 10/02/19 00:00 | 103-65-1 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 10/02/19 00:00 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:00 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:00 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/02/19 00:00 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 10/02/19 00:00 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 10/02/19 00:00 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 10/02/19 00:00 | 120-82-1 | |
| 1,1,1-Trichloroethane | 0.58J | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:00 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/02/19 00:00 | 79-00-5 | |
| Trichloroethene | 87.7 | ug/L | 1.0 | 0.26 | 1 | | 10/02/19 00:00 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/02/19 00:00 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 10/02/19 00:00 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 10/02/19 00:00 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 10/02/19 00:00 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/02/19 00:00 | 75-01-4 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 10/02/19 00:00 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/02/19 00:00 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 1 | | 10/02/19 00:00 | 460-00-4 | |
| Dibromofluoromethane (S) | 105 | % | 70-130 | | 1 | | 10/02/19 00:00 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 10/02/19 00:00 | 2037-26-5 | |
| 335.4 Cyanide, Total | Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 | | | | | | | | |
| Cyanide | <0.0068 | mg/L | 0.023 | 0.0068 | 1 | 10/03/19 10:35 | 10/03/19 15:11 | 57-12-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-113 **Lab ID: 40196093014** Collected: 09/26/19 11:20 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|------------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 759 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 02:48 | 7440-47-3 | |
| Iron, Dissolved | 855 | ug/L | 100 | 29.6 | 1 | | 10/02/19 02:48 | 7439-89-6 | |
| Manganese, Dissolved | 5010 | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 02:48 | 7439-96-5 | |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/02/19 00:39 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:39 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 10/02/19 00:39 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/02/19 00:39 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/02/19 00:39 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/02/19 00:39 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:39 | 104-51-8 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 10/02/19 00:39 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 10/02/19 00:39 | 98-06-6 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/02/19 00:39 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:39 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/02/19 00:39 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/02/19 00:39 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/02/19 00:39 | 74-87-3 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 10/02/19 00:39 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 10/02/19 00:39 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/02/19 00:39 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/02/19 00:39 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/02/19 00:39 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/02/19 00:39 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:39 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/02/19 00:39 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/02/19 00:39 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/02/19 00:39 | 75-71-8 | |
| 1,1-Dichloroethane | 48.3 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:39 | 75-34-3 | |
| 1,2-Dichloroethane | 0.37J | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:39 | 107-06-2 | |
| 1,1-Dichloroethene | 29.5 | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:39 | 75-35-4 | |
| cis-1,2-Dichloroethene | 5.2 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | 1.2J | ug/L | 3.6 | 1.1 | 1 | | 10/02/19 00:39 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:39 | 78-87-5 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/02/19 00:39 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 10/02/19 00:39 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 10/02/19 00:39 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/02/19 00:39 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/02/19 00:39 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 10/02/19 00:39 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 10/02/19 00:39 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/02/19 00:39 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 10/02/19 00:39 | 98-82-8 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 10/02/19 00:39 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/02/19 00:39 | 75-09-2 | |

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: MW-113 Lab ID: **40196093014** Collected: 09/26/19 11:20 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------|-----------------------------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/02/19 00:39 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/02/19 00:39 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 10/02/19 00:39 | 103-65-1 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 10/02/19 00:39 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:39 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:39 | 79-34-5 | |
| Tetrachloroethylene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/02/19 00:39 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 10/02/19 00:39 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 10/02/19 00:39 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 10/02/19 00:39 | 120-82-1 | |
| 1,1,1-Trichloroethane | 114 | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:39 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/02/19 00:39 | 79-00-5 | |
| Trichloroethylene | 41.4 | ug/L | 1.0 | 0.26 | 1 | | 10/02/19 00:39 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/02/19 00:39 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 10/02/19 00:39 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 10/02/19 00:39 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 10/02/19 00:39 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/02/19 00:39 | 75-01-4 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 10/02/19 00:39 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/02/19 00:39 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 10/02/19 00:39 | 460-00-4 | |
| Dibromofluoromethane (S) | 111 | % | 70-130 | | 1 | | 10/02/19 00:39 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 10/02/19 00:39 | 2037-26-5 | |

Sample: BD-1 Lab ID: **40196093015** Collected: 09/26/19 09:34 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------------------|-------|------|------|----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | Analytical Method: EPA 6010 | | | | | | | | |
| Chromium, Dissolved | 63.3 | ug/L | 10.0 | 2.5 | 1 | | 10/02/19 02:50 | 7440-47-3 | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 10/02/19 02:50 | 7439-89-6 | |
| Manganese, Dissolved | 1.5J | ug/L | 5.0 | 1.1 | 1 | | 10/02/19 02:50 | 7439-96-5 | |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/02/19 00:19 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:19 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 10/02/19 00:19 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/02/19 00:19 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/02/19 00:19 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/02/19 00:19 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:19 | 104-51-8 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 10/02/19 00:19 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 10/02/19 00:19 | 98-06-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Sample: BD-1 | Lab ID: 40196093015 | Collected: 09/26/19 09:34 | Received: 09/27/19 13:30 | Matrix: Water | | | | | |
|-----------------------------|-----------------------------|---------------------------|--------------------------|---------------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/02/19 00:19 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:19 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/02/19 00:19 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/02/19 00:19 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/02/19 00:19 | 74-87-3 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 10/02/19 00:19 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 10/02/19 00:19 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/02/19 00:19 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/02/19 00:19 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/02/19 00:19 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/02/19 00:19 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/02/19 00:19 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/02/19 00:19 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/02/19 00:19 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/02/19 00:19 | 75-71-8 | |
| 1,1-Dichloroethane | 1.0 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:19 | 75-34-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:19 | 107-06-2 | |
| 1,1-Dichloroethene | 0.69J | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:19 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:19 | 156-59-2 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/02/19 00:19 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:19 | 78-87-5 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/02/19 00:19 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 10/02/19 00:19 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 10/02/19 00:19 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/02/19 00:19 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/02/19 00:19 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 10/02/19 00:19 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 10/02/19 00:19 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/02/19 00:19 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 10/02/19 00:19 | 98-82-8 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 10/02/19 00:19 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/02/19 00:19 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/02/19 00:19 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/02/19 00:19 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 10/02/19 00:19 | 103-65-1 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 10/02/19 00:19 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/02/19 00:19 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/02/19 00:19 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/02/19 00:19 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 10/02/19 00:19 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 10/02/19 00:19 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 10/02/19 00:19 | 120-82-1 | |
| 1,1,1-Trichloroethane | 6.5 | ug/L | 1.0 | 0.24 | 1 | | 10/02/19 00:19 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/02/19 00:19 | 79-00-5 | |
| Trichloroethene | 27.9 | ug/L | 1.0 | 0.26 | 1 | | 10/02/19 00:19 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/02/19 00:19 | 75-69-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Sample: BD-1 | Lab ID: 40196093015 | Collected: 09/26/19 09:34 | Received: 09/27/19 13:30 | Matrix: Water | | | | | |
|-----------------------------|--|---------------------------|--------------------------|---------------|----|----------------|----------------|-------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 10/02/19 00:19 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 10/02/19 00:19 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 10/02/19 00:19 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/02/19 00:19 | 75-01-4 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 10/02/19 00:19 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/02/19 00:19 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | | 1 | | 10/02/19 00:19 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | | 1 | | 10/02/19 00:19 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 10/02/19 00:19 | 2037-26-5 | |
| 335.4 Cyanide, Total | Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 | | | | | | | | |
| Cyanide | <0.0068 | mg/L | 0.023 | 0.0068 | 1 | 10/03/19 10:35 | 10/03/19 15:12 | 57-12-5 | |
| Sample: TB | Lab ID: 40196093016 | Collected: 09/26/19 00:00 | Received: 09/27/19 13:30 | Matrix: Water | | | | | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 10/01/19 18:45 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 18:45 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 10/01/19 18:45 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 10/01/19 18:45 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 10/01/19 18:45 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 10/01/19 18:45 | 74-83-9 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 18:45 | 104-51-8 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 10/01/19 18:45 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 10/01/19 18:45 | 98-06-6 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 18:45 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 18:45 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 18:45 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 10/01/19 18:45 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 10/01/19 18:45 | 74-87-3 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 10/01/19 18:45 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 10/01/19 18:45 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 10/01/19 18:45 | 96-12-8 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 10/01/19 18:45 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 18:45 | 106-93-4 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 18:45 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 10/01/19 18:45 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 10/01/19 18:45 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 10/01/19 18:45 | 106-46-7 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 10/01/19 18:45 | 75-71-8 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 18:45 | 75-34-3 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

Sample: TB **Lab ID: 40196093016** Collected: 09/26/19 00:00 Received: 09/27/19 13:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------|-----------------------------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 18:45 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 18:45 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 18:45 | 156-59-2 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 10/01/19 18:45 | 156-60-5 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 18:45 | 78-87-5 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 10/01/19 18:45 | 142-28-9 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 10/01/19 18:45 | 594-20-7 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 10/01/19 18:45 | 563-58-6 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 10/01/19 18:45 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 10/01/19 18:45 | 10061-02-6 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 10/01/19 18:45 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 10/01/19 18:45 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 18:45 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 10/01/19 18:45 | 98-82-8 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 10/01/19 18:45 | 99-87-6 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 10/01/19 18:45 | 75-09-2 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 10/01/19 18:45 | 1634-04-4 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 10/01/19 18:45 | 91-20-3 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 10/01/19 18:45 | 103-65-1 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 10/01/19 18:45 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 10/01/19 18:45 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 10/01/19 18:45 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 10/01/19 18:45 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 10/01/19 18:45 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 10/01/19 18:45 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 10/01/19 18:45 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 10/01/19 18:45 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 10/01/19 18:45 | 79-00-5 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 18:45 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 10/01/19 18:45 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 10/01/19 18:45 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 10/01/19 18:45 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 10/01/19 18:45 | 108-67-8 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 10/01/19 18:45 | 75-01-4 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 10/01/19 18:45 | 179601-23-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 10/01/19 18:45 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 10/01/19 18:45 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 10/01/19 18:45 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 10/01/19 18:45 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

QC Batch: 335948 Analysis Method: EPA 6010

QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40196093001, 40196093002, 40196093003, 40196093004, 40196093005, 40196093006, 40196093007,
40196093008, 40196093009, 40196093010

METHOD BLANK: 1950632 Matrix: Water

Associated Lab Samples: 40196093001, 40196093002, 40196093003, 40196093004, 40196093005, 40196093006, 40196093007,
40196093008, 40196093009, 40196093010

| Parameter | Units | Blank | Reporting | | Qualifiers |
|----------------------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | Analyzed | |
| Chromium, Dissolved | ug/L | <2.5 | 10.0 | 10/02/19 00:08 | |
| Iron, Dissolved | ug/L | <29.6 | 100 | 10/02/19 00:08 | |
| Manganese, Dissolved | ug/L | <1.1 | 5.0 | 10/02/19 00:08 | |

LABORATORY CONTROL SAMPLE: 1950633

| Parameter | Units | Spike | LCS | LCS | % Rec | Qualifiers |
|----------------------|-------|-------|--------|-------|--------|------------|
| | | Conc. | Result | % Rec | Limits | |
| Chromium, Dissolved | ug/L | 500 | 473 | 95 | 80-120 | |
| Iron, Dissolved | ug/L | 5000 | 4930 | 99 | 80-120 | |
| Manganese, Dissolved | ug/L | 500 | 450 | 90 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950634 1950635

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | RPD | Max |
|----------------------|-------|-------------|-------|-------|--------|--------|-------|--------|--------|------|-----|
| | | 40196011016 | Spike | Spike | Result | Result | % Rec | Limits | RPD | Qual | |
| Chromium, Dissolved | ug/L | <2.5 | 500 | 500 | 477 | 479 | 95 | 96 | 75-125 | 1 | 20 |
| Iron, Dissolved | ug/L | 1440 | 5000 | 5000 | 6350 | 6340 | 98 | 98 | 75-125 | 0 | 20 |
| Manganese, Dissolved | ug/L | 2500 | 500 | 500 | 2880 | 2900 | 76 | 79 | 75-125 | 1 | 20 |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| | | | |
|-------------------------|---|-----------------------|------------------------------|
| QC Batch: | 335950 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 6010 | Analysis Description: | ICP Metals, Trace, Dissolved |
| Associated Lab Samples: | 40196093011, 40196093012, 40196093013, 40196093014, 40196093015 | | |

METHOD BLANK: 1950639 Matrix: Water

Associated Lab Samples: 40196093011, 40196093012, 40196093013, 40196093014, 40196093015

| Parameter | Units | Blank | Reporting | Analyzed | Qualifiers |
|----------------------|-------|--------|-----------|----------------|------------|
| | | Result | Limit | | |
| Chromium, Dissolved | ug/L | <2.5 | 10.0 | 10/02/19 02:30 | |
| Iron, Dissolved | ug/L | <29.6 | 100 | 10/02/19 02:30 | |
| Manganese, Dissolved | ug/L | <1.1 | 5.0 | 10/02/19 02:30 | |

LABORATORY CONTROL SAMPLE: 1950640

| Parameter | Units | Spike | LCS | LCS | % Rec | Qualifiers |
|----------------------|-------|-------|--------|-------|--------|------------|
| | | Conc. | Result | % Rec | Limits | |
| Chromium, Dissolved | ug/L | 500 | 475 | 95 | 80-120 | |
| Iron, Dissolved | ug/L | 5000 | 4900 | 98 | 80-120 | |
| Manganese, Dissolved | ug/L | 500 | 448 | 90 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950641 1950642

| Parameter | Units | MS | | MSD | | MS | MSD | MSD | % Rec | Limits | RPD | RPD | Max |
|----------------------|-------|-------------|--------|-------|-------|------|-----|-----|--------|--------|-----|-----|-----|
| | | 40196093011 | Result | Spike | Conc. | | | | | | | | |
| Chromium, Dissolved | ug/L | <2.5 | 500 | 500 | 491 | 482 | 98 | 96 | 75-125 | 2 | 20 | | |
| Iron, Dissolved | ug/L | 1080 | 5000 | 5000 | 6100 | 6100 | 100 | 100 | 75-125 | 0 | 20 | | |
| Manganese, Dissolved | ug/L | 542 | 500 | 500 | 989 | 986 | 89 | 89 | 75-125 | 0 | 20 | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

QC Batch:

335810

Analysis Method:

EPA 8260

QC Batch Method:

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples: 40196093008, 40196093010, 40196093011, 40196093012, 40196093013, 40196093014, 40196093015,
40196093016

METHOD BLANK: 1950094

Matrix: Water

Associated Lab Samples: 40196093008, 40196093010, 40196093011, 40196093012, 40196093013, 40196093014, 40196093015,
40196093016

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 10/01/19 17:07 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 10/01/19 17:07 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 10/01/19 17:07 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 10/01/19 17:07 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 10/01/19 17:07 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 10/01/19 17:07 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 10/01/19 17:07 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.63 | 5.0 | 10/01/19 17:07 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 10/01/19 17:07 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 10/01/19 17:07 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 10/01/19 17:07 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 10/01/19 17:07 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 10/01/19 17:07 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 10/01/19 17:07 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 10/01/19 17:07 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 10/01/19 17:07 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 10/01/19 17:07 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 10/01/19 17:07 | |
| 1,3-Dichloropropene | ug/L | <0.83 | 2.8 | 10/01/19 17:07 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 10/01/19 17:07 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 10/01/19 17:07 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 10/01/19 17:07 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 10/01/19 17:07 | |
| Benzene | ug/L | <0.25 | 1.0 | 10/01/19 17:07 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 10/01/19 17:07 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 10/01/19 17:07 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 10/01/19 17:07 | |
| Bromoform | ug/L | <4.0 | 13.2 | 10/01/19 17:07 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 10/01/19 17:07 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 10/01/19 17:07 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 10/01/19 17:07 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 10/01/19 17:07 | |
| Chloroform | ug/L | <1.3 | 5.0 | 10/01/19 17:07 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 10/01/19 17:07 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 10/01/19 17:07 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 10/01/19 17:07 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 10/01/19 17:07 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 10/01/19 17:07 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 10/01/19 17:07 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 10/01/19 17:07 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

METHOD BLANK: 1950094

Matrix: Water

Associated Lab Samples: 40196093008, 40196093010, 40196093011, 40196093012, 40196093013, 40196093014, 40196093015,
40196093016

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethylbenzene | ug/L | <0.22 | 1.0 | 10/01/19 17:07 | |
| Hexachloro-1,3-butadiene | ug/L | <1.2 | 5.0 | 10/01/19 17:07 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 5.0 | 10/01/19 17:07 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 10/01/19 17:07 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 10/01/19 17:07 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 10/01/19 17:07 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 10/01/19 17:07 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 10/01/19 17:07 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 10/01/19 17:07 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 10/01/19 17:07 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 10/01/19 17:07 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 10/01/19 17:07 | |
| Styrene | ug/L | <0.47 | 1.6 | 10/01/19 17:07 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 10/01/19 17:07 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 10/01/19 17:07 | |
| Toluene | ug/L | <0.17 | 5.0 | 10/01/19 17:07 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 10/01/19 17:07 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 10/01/19 17:07 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 10/01/19 17:07 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 10/01/19 17:07 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 10/01/19 17:07 | |
| 4-Bromofluorobenzene (S) | % | 99 | 70-130 | 10/01/19 17:07 | |
| Dibromofluoromethane (S) | % | 107 | 70-130 | 10/01/19 17:07 | |
| Toluene-d8 (S) | % | 103 | 70-130 | 10/01/19 17:07 | |

LABORATORY CONTROL SAMPLE: 1950095

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 55.8 | 112 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 56.1 | 112 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 55.2 | 110 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 66.0 | 132 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 49.1 | 98 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 48.5 | 97 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 55.0 | 110 | 64-129 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 54.6 | 109 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 51.1 | 102 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 61.0 | 122 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 58.1 | 116 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 51.1 | 102 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 50.8 | 102 | 70-130 | |
| Benzene | ug/L | 50 | 58.6 | 117 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 53.6 | 107 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

LABORATORY CONTROL SAMPLE: 1950095

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Bromoform | ug/L | 50 | 44.5 | 89 | 68-129 | |
| Bromomethane | ug/L | 50 | 26.4 | 53 | 18-159 | |
| Carbon tetrachloride | ug/L | 50 | 57.4 | 115 | 70-130 | |
| Chlorobenzene | ug/L | 50 | 53.9 | 108 | 70-130 | |
| Chloroethane | ug/L | 50 | 40.3 | 81 | 53-147 | |
| Chloroform | ug/L | 50 | 57.4 | 115 | 74-136 | |
| Chloromethane | ug/L | 50 | 36.0 | 72 | 29-115 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 54.0 | 108 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 48.0 | 96 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 49.4 | 99 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 38.1 | 76 | 10-130 | |
| Ethylbenzene | ug/L | 50 | 55.1 | 110 | 80-124 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 55.1 | 110 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 106 | 106 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 56.0 | 112 | 54-137 | |
| Methylene Chloride | ug/L | 50 | 52.7 | 105 | 73-138 | |
| o-Xylene | ug/L | 50 | 54.6 | 109 | 70-130 | |
| Styrene | ug/L | 50 | 50.4 | 101 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 54.6 | 109 | 70-130 | |
| Toluene | ug/L | 50 | 55.5 | 111 | 80-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 59.0 | 118 | 73-145 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 50.7 | 101 | 70-130 | |
| Trichloroethene | ug/L | 50 | 55.7 | 111 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 42.0 | 84 | 76-147 | |
| Vinyl chloride | ug/L | 50 | 40.6 | 81 | 51-120 | |
| 4-Bromofluorobenzene (S) | % | | | 109 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 104 | 70-130 | |
| Toluene-d8 (S) | % | | | 104 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950684
1950685

| Parameter | Units | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------|--------|-------------|-------------|-----------|------------|-------|--------|--------------|-----|---------|------|
| | | 40196093010 | Result | Spike Conc. | Spike Conc. | MS Result | MSD Result | % Rec | % Rec | | | | |
| 1,1,1-Trichloroethane | ug/L | 23.2 | 50 | 50 | 78.2 | 78.8 | 110 | 111 | 70-130 | 1 | 20 | | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 56.1 | 55.3 | 112 | 111 | 70-130 | 2 | 20 | | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 55.9 | 56.1 | 111 | 111 | 70-137 | 0 | 20 | | |
| 1,1-Dichloroethane | ug/L | 2.3 | 50 | 50 | 65.0 | 64.7 | 125 | 125 | 73-153 | 0 | 20 | | |
| 1,1-Dichloroethene | ug/L | 1.3 | 50 | 50 | 48.4 | 47.7 | 94 | 93 | 73-138 | 2 | 20 | | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 50.2 | 50.7 | 100 | 101 | 70-130 | 1 | 20 | | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 55.6 | 55.9 | 111 | 112 | 58-129 | 1 | 20 | | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 53.6 | 55.4 | 107 | 111 | 70-130 | 3 | 20 | | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 50.7 | 50.8 | 101 | 102 | 70-130 | 0 | 20 | | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 60.1 | 60.3 | 120 | 121 | 75-140 | 0 | 20 | | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 58.2 | 58.3 | 116 | 117 | 71-138 | 0 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Parameter | Units | 40196093010 | | MSD | | 1950685 | | % Rec | Limits | RPD | Max RPD | Qual |
|------------------------------|-------|-------------|-------------|-------------|-----------|-----------|-----|-------|--------|-----|---------|------|
| | | MS Result | Spike Conc. | Spike Conc. | MS Result | MSD % Rec | | | | | | |
| | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 51.4 | 51.7 | 103 | 103 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 51.0 | 51.0 | 102 | 102 | 70-130 | 0 | 20 | |
| Benzene | ug/L | <0.25 | 50 | 50 | 56.4 | 56.5 | 113 | 113 | 70-130 | 0 | 20 | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 55.5 | 54.5 | 111 | 109 | 70-130 | 2 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 45.9 | 44.3 | 92 | 89 | 68-129 | 3 | 20 | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 27.9 | 29.8 | 56 | 60 | 15-170 | 6 | 20 | |
| Carbon tetrachloride | ug/L | <0.17 | 50 | 50 | 55.3 | 54.8 | 111 | 110 | 70-130 | 1 | 20 | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 54.3 | 54.2 | 109 | 108 | 70-130 | 0 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 38.5 | 39.2 | 77 | 78 | 51-148 | 2 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 55.5 | 55.1 | 110 | 109 | 74-136 | 1 | 20 | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 34.1 | 34.0 | 68 | 68 | 23-115 | 0 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 52.2 | 51.6 | 104 | 103 | 70-131 | 1 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 49.7 | 49.0 | 99 | 98 | 70-130 | 1 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 49.6 | 49.5 | 99 | 99 | 70-130 | 0 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 36.5 | 35.2 | 73 | 70 | 10-132 | 4 | 20 | |
| Ethylbenzene | ug/L | <0.22 | 50 | 50 | 54.4 | 55.4 | 109 | 111 | 80-125 | 2 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 50 | 50 | 53.8 | 55.3 | 108 | 111 | 70-130 | 3 | 20 | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 106 | 109 | 106 | 109 | 70-130 | 2 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 53.7 | 54.7 | 107 | 109 | 51-145 | 2 | 20 | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 53.6 | 51.8 | 107 | 104 | 73-140 | 3 | 20 | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 52.5 | 54.2 | 105 | 108 | 70-130 | 3 | 20 | |
| Styrene | ug/L | <0.47 | 50 | 50 | 39.3 | 39.4 | 79 | 79 | 70-130 | 0 | 20 | |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 53.3 | 54.1 | 107 | 108 | 70-130 | 2 | 20 | |
| Toluene | ug/L | <0.17 | 50 | 50 | 54.6 | 56.1 | 109 | 112 | 80-131 | 3 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 58.0 | 55.7 | 116 | 111 | 73-148 | 4 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 50.7 | 50.9 | 101 | 102 | 70-130 | 1 | 20 | |
| Trichloroethene | ug/L | 35.3 | 50 | 50 | 88.9 | 91.2 | 107 | 112 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 41.3 | 40.7 | 83 | 81 | 74-147 | 1 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 37.7 | 36.6 | 75 | 73 | 41-129 | 3 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 104 | 105 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 97 | 99 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 102 | 70-130 | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| | | | |
|-------------------------|--|-----------------------|----------------------|
| QC Batch: | 336181 | Analysis Method: | EPA 335.4 |
| QC Batch Method: | EPA 335.4 | Analysis Description: | 335.4 Cyanide, Total |
| Associated Lab Samples: | 40196093011, 40196093012, 40196093013, 40196093015 | | |

METHOD BLANK: 1951945 Matrix: Water

Associated Lab Samples: 40196093011, 40196093012, 40196093013, 40196093015

| Parameter | Units | Blank | Reporting | Analyzed | Qualifiers |
|-----------|-------|---------|-----------|----------------|------------|
| | | Result | Limit | | |
| Cyanide | mg/L | 0.0079J | 0.023 | 10/03/19 15:00 | |

LABORATORY CONTROL SAMPLE: 1951946

| Parameter | Units | Spike | LCS | LCS | % Rec | Qualifiers |
|-----------|-------|-------|--------|-------|--------|------------|
| | | Conc. | Result | % Rec | Limits | |
| Cyanide | mg/L | 0.1 | 0.10 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1951947 1951948

| Parameter | Units | 40196107001 | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | Max |
|-----------|-------|-------------|-------|-------|------|------|----|-----|--------|-------|-----|
| | | Result | Spike | Spike | | | | | | | |
| Cyanide | mg/L | <0.0068 | 0.1 | 0.1 | 0.10 | 0.10 | 99 | 96 | 90-110 | 2 | 20 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1951949 1951950

| Parameter | Units | 40196343003 | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | Max |
|-----------|-------|-------------|-------|-------|------|------|----|-----|--------|-------|-----|
| | | Result | Spike | Spike | | | | | | | |
| Cyanide | mg/L | 0.019J | 0.2 | 0.2 | 0.20 | 0.20 | 91 | 91 | 90-110 | 0 | 20 |

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QUALIFIERS

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58117057 NW MAUTHE SUPERFUND

Pace Project No.: 40196093

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40196093001 | W-2 | EPA 6010 | 335948 | | |
| 40196093002 | W-8 | EPA 6010 | 335948 | | |
| 40196093003 | W-15 | EPA 6010 | 335948 | | |
| 40196093004 | MW-101 | EPA 6010 | 335948 | | |
| 40196093005 | MW-103 | EPA 6010 | 335948 | | |
| 40196093006 | MW-104 | EPA 6010 | 335948 | | |
| 40196093007 | MW-106 | EPA 6010 | 335948 | | |
| 40196093008 | MW-107 | EPA 6010 | 335948 | | |
| 40196093009 | MW-108 | EPA 6010 | 335948 | | |
| 40196093010 | MW-109 | EPA 6010 | 335948 | | |
| 40196093011 | MW-110 | EPA 6010 | 335950 | | |
| 40196093012 | MW-111 | EPA 6010 | 335950 | | |
| 40196093013 | MW-112 | EPA 6010 | 335950 | | |
| 40196093014 | MW-113 | EPA 6010 | 335950 | | |
| 40196093015 | BD-1 | EPA 6010 | 335950 | | |
| 40196093008 | MW-107 | EPA 8260 | 335810 | | |
| 40196093010 | MW-109 | EPA 8260 | 335810 | | |
| 40196093011 | MW-110 | EPA 8260 | 335810 | | |
| 40196093012 | MW-111 | EPA 8260 | 335810 | | |
| 40196093013 | MW-112 | EPA 8260 | 335810 | | |
| 40196093014 | MW-113 | EPA 8260 | 335810 | | |
| 40196093015 | BD-1 | EPA 8260 | 335810 | | |
| 40196093016 | TB | EPA 8260 | 335810 | | |
| 40196093011 | MW-110 | EPA 335.4 | 336181 | EPA 335.4 | 336240 |
| 40196093012 | MW-111 | EPA 335.4 | 336181 | EPA 335.4 | 336240 |
| 40196093013 | MW-112 | EPA 335.4 | 336181 | EPA 335.4 | 336240 |
| 40196093015 | BD-1 | EPA 335.4 | 336181 | EPA 335.4 | 336240 |

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

| | |
|---------------------|-----------------------|
| Company Name: | Terracon |
| Branch/Location: | Franklin |
| Project Contact: | Scott Hodgson |
| Phone: | 414-209-7640 |
| Project Number: | 58117057 |
| Project Name: | N.W. Manthe Superfund |
| Project State: | Wisconsin |
| Sampled By (Print): | Krista Koeninger |
| Sampled By (Sign): | Krista Koeninger |
| PO #: | |

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 | Y/N | Pick Letter | Preservation Codes | Quote #: |
|------------|-----------------|------------|-------|--------|--------------------|-----|-------------|--------------------|----------|
| | | DATE | TIME | | | | | | |
| 001 | W-2 | 9/25/19 | 12:48 | GW | | 1 | | | |
| 002 | W-8 | 9/25/19 | 1440 | | | 1 | | | |
| 003 | W-15 | 9/25/19 | 1410 | | | 1 | | | |
| 004 | MW-101 | 9/25/19 | 1150 | | | 1 | | | |
| 005 | MW-103 | 9/25/19 | 1538 | | | 1 | | | |
| 006 | MW-104 | 9/25/19 | 1531 | | | 1 | | | |
| 007 | MW-106 | 9/25/19 | 1430 | | | 1 | | | |
| 008 | MW-107 | 9/25/19 | 1643 | | | 1 | 3 | | |
| 009 | MW-108 | 9/25/19 | 1243 | | | 1 | | | |
| 010 | MW-109 | 9/26/19 | 0850 | | | 1 | 3 | | |
| 011 | MW-110 | 9/26/19 | 1203 | | | 1 | 3 | | |
| 012 | MW-111 | 9/26/19 | 0934 | | | 1 | 3 | | |
| 013 | MW-112 | 9/26/19 | 1028 | | | 1 | 3 | | |

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

**UPPER MIDWEST REGION**

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

Page 1 of 2

Page 34 of 37

40196093

CHAIN OF CUSTODY

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

Y

N

N

Y/N

Pick Letter

Y

N

N

Analyses Requested

Metals - Diss. Cr,
Fe, Mn

VOCs

Cyanide

Received By: Scott A. Koeninger Date/Time: 9/26/19 1240
 Received By: Date/Time: 9/27/19 0930

PAGE Project No. 40196093
 Receipt Temp = 20 °C

Received By: Date/Time: 9/27/19 1330
 Received By: Date/Time: 9/27/19 1330

Sample Receipt pH OK Adjusted

Received By: Date/Time:
 Received By: Date/Time:

Courier Custody Seal
 Present / Not Present
 Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

(Please Print Clearly)

| | |
|---------------------|------------------------|
| Company Name: | Teracon |
| Branch/Location: | Franklin |
| Project Contact: | Scott Hodgson |
| Phone: | 414-209-7640 |
| Project Number: | 58117057 |
| Project Name: | D.W. Mauithe Superfund |
| Project State: | Wisconsin |
| Sampled By (Print): | Krista Kroninger |
| Sampled By (Sign): | Krista Kroninger |
| PO #: | Regulatory Program: |

| | | |
|--|---|-------------------------------------|
| Data Package Options (billable) | MS/MSD | Matrix Codes |
| <input type="checkbox"/> EPA Level III | <input type="checkbox"/> On your sample (billable) | A = Air W = Water |
| <input type="checkbox"/> EPA Level IV | <input type="checkbox"/> NOT needed on your sample | 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 | | |

| | | | | |
|-----|--------|---------|------|----|
| 014 | MW-113 | 9/26/19 | 1120 | GW |
| 015 | BD-1 | ↓ | 934 | GW |
| 016 | ①DTB | | | |

| | | | | | |
|--|---|----------------------------|---|----------------------------|--|
| Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: | Relinquished By: <i>Krista Kroninger</i> | Date/Time: 9/26/19 1240 | Received By: <i>Scott A. Hodgson</i> | Date/Time: 9/26/19 1240 | PACE Project No. 401910093 |
| Transmit Prelim Rush Results by (complete what you want): | Relinquished By: <i>Scott A. Hodgson</i> | Date/Time: 9/27/19 0830 | Received By: <i>Scott A. Hodgson</i> | Date/Time: 9/27/19 0930 | Receipt Temp = 20.1 °C |
| Email #1: | Relinquished By: | Date/Time: | Received By: | Date/Time: | Sample Receipt pH OK / Adjusted |
| Email #2: | Relinquished By: | Date/Time: | Received By: | Date/Time: | Cooler Custody Seal Present / Not Present |
| 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 | | | | | |

C019a(27Jun2006)

① DTB added to COC by lab 10/19/19



UPPER MIDWEST REGION

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

Page

2 of 2

401910093

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| | | | |
|-----------------------------------|--------------------------------|-----------|--|
| Quote #: | | | |
| Mail To Contact: | | | |
| Mail To Company: | Teracon | | |
| Mail To Address: | | | |
| Invoice To Contact: | | | |
| Invoice To Company: | Teracon | | |
| Invoice To Address: | | | |
| Invoice To Phone: | | | |
| CLIENT COMMENTS (Lab Use Only) | LAB COMMENTS (Lab Use Only) | Profile # | |

Version 6.0 06/14/06

ORIGINAL

Sample Preservation Receipt Form

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

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Client Name: Terracor

Project # 40196093

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: 0450891

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: OK

Date/
Time:

| Pace Lab # | Glass | | | | | | Plastic | | | Vials | | | Jars | | | General | | | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) | | | |
|------------|-------|------|------|------|------|------|---------|------|------|-------|------|------|------|------|------|---------|------|------|--------------------|-------------|-------------------|-------------|------------|-------------------|-------------|----|--|--------------|
| | AG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U | BP2N | BP2Z | BP3U | BP3B | BP3N | BP3S | DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | WG FU | WP FU | SP5T | ZPLC | GN | | |
| 001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

| | | | | | | | |
|------|---------------------------|------|----------------------------|------|-------------------------|-------|-------------------------------|
| AG1U | 1 liter amber glass | BP1U | 1 liter plastic unpres | DG9A | 40 mL amber ascorbic | JGFU | 4 oz amber jar unpres |
| AG1H | 1 liter amber glass HCL | BP2N | 500 mL plastic HNO3 | DG9T | 40 mL amber Na Thio | WG FU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP2Z | 500 mL plastic NaOH, Znact | VG9U | 40 mL clear vial unpres | WP FU | 4 oz plastic jar unpres |
| AG4U | 120 mL amber glass unpres | BP3U | 250 mL plastic unpres | VG9H | 40 mL clear vial HCL | | |
| AG5U | 100 mL amber glass unpres | BP3B | 250 mL plastic NaOH | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG2S | 500 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| BG3U | 250 mL clear glass unpres | BP3S | 250 mL plastic H2SO4 | | | GN: | |



| | |
|--|---|
| Document Name: Sample Condition Upon Receipt (SCUR) | Document Revised: 25Apr2018 |
| Document No.: F-GB-C-031-Rev.07 | Issuing Authority: Pace Green Bay Quality Office |

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: TerraconCourier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____WO# : **40196093**

40196093

Tracking #:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noCustody Seal on Samples Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used SR - N/A Type of Ice Wet Blue Dry None Samples on ice, cooling process has begunCooler Temperature Uncorr: RT /Corr: _____Temp Blank Present: yes noBiological Tissue is Frozen: yes no

Person examining contents:

Date: 9/25/19Initials: OLB

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

| | | |
|--|--|---|
| 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: - VOA Samples frozen upon receipt | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Date/Time: _____ |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume: For Analysis: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 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: -Includes date/time/ID/Analysis Matrix: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12. <u>004+005 poly no times</u> <u>abt 2715</u> |
| Trip Blank Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. |
| 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): | <u>433</u> | |

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

_____Project Manager Review: CJL for DMDate: 9/30/19Page 2 of 2 of 37

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|---|-----------------------------|--|
| PROJECT NAME: NW. Manthe Superfund Site | | PROJECT NO. 58117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: 00W-2 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: 14.0 | $(14.0 - 4.10) .49 = 4.851$ | |
| DATE: 9/25/19 | TIME 11:49 | DEPTH TO GROUND WATER (AM) /PM (FT): 4.10 |
| 9/25/19-SAH | | SAMPLING METHOD: low flow sampling |
| SAMPLE TIME: 12:48 | | FLOW RATE: ~200 mL/min. |
| | | TOTAL PURGED: 7.0 gallons |

Biselting
initial

| TIME | WATER LEVEL (ft) | TEMP. (°C) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|-------|------------------------------------|------------|------|------------------|-------------|--------------|
| 11:49 | 4.87 | 17.97 | 7.77 | 1.72 | -78 | 18.54 |
| — | Purg | | | | | |
| 12:20 | 11.26 | 14.49 | 7.30 | 1577 | -88.5 | 3.01 |
| 12:25 | 11.71 | 14.14 | 7.02 | 1488 | -81.6 | 2.27 |
| 12:30 | 12.01 | 13.89 | 6.95 | 1478 | -74.6 | 0.64 |
| 12:35 | 12.38 | 13.83 | 6.92 | 1477 | -71.6 | 0.39 |
| 12:40 | 12.68 12.63 12.63 | 13.61 | 6.90 | 1473 | -70.9 | 0.39 |
| 12:45 | | 13.57 | 6.91 | 1475 | -70.0 | 0.36 |
| | | | | | | |
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|--------------------------------|--------|---|--------------------------------|
| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="checkbox"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | | NO <input type="checkbox"/> NOT NOTED | |

CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING
METHOD PERFORMED
LEB

COMMENTS:

SAMPLED BY: LEB

DATE: 9/25/19

REVIEWED
BY:

Scott A. Hodgson

DATE: 10/31/19

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

PROJECT NAME: NW. Manitowoc Superfund Site

PROJECT
NO. 58117057

PROJECT

LOCATION: Appleton, Wisconsin

SAMPLE POINT: NW-8

SAMPLE POINT
DESCRIPTION:

CASING DIAMETER:

2"

WELL DEPTH:

14.80

$$(14.80 - 6.12) \cdot .49 = 4.253$$

DATE: 9/25/19

TIME

AM
/PMDEPTH TO GROUND WATER
(FT): 6.12

SAMPLING METHOD: low flow sampling

FLOW RATE: ~200 mL/min.

SAMPLE TIME: 1440

TOTAL PURGED: ~5.5 gallons

| TIME | WATER LEVEL | TEMP.(°C) | pH | COND. (mS/cm) | ORP (mv) | DO (mg/L) |
|-------|--------------------|-----------|------|------------------|-------------|--------------|
| 13:31 | 6.81 | 17.71 | 7.43 | 1.13 | 62 | 1.33 |
| | — purge ~4 gallons | | | | | |
| 14:13 | 11.14 | 18.34 | 7.52 | 0.925 | 109 | 3.33 |
| 14:18 | 11.50 | 17.64 | 7.28 | 0.905 | 108 | 0.33 |
| 14:23 | 11.90 | 17.21 | 7.19 | 0.973 | 109 | 0.00 |
| 14:28 | 12.32 | 17.15 | 7.17 | 0.992 | 109 | 0.00 |
| 14:33 | 12.53 | 17.10 | 7.16 | 1.03 | 108 | 0.00 |
| 14:38 | 12.64 | 16.96 | 7.13 | 1.07 | 108 | 0.00 |
| | | | | | | |
| | | | | | | |
| 1440 | Sample | | | | | |
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|--------------------|-----------------|--------|---|---|-----------------------------|--------------------------------|
| SAMPLE APPEARANCE: | VERY TURBID | TURBID | ODOR: | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| | SLIGHTLY TURBID | | <input checked="" type="checkbox"/> CLEAR | | NOT NOTED | |

| | | |
|------------------------------|---|---|
| CLEANING PERFORMED IN FIELD: | Alconox and Distilled Water AND Disposable gloves | *INITIAL TO VERIFY OR NOTE OTHER CLEANING |
| METHOD PERFORMED | | |

| |
|-----------|
| COMMENTS: |
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| | | |
|--------------|------------------|----------------|
| SAMPLED BY: | KRK | DATE: 9/25/19 |
| REVIEWED BY: | Scott A. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|---|------------------------------|--|
| PROJECT NAME: NW. Mauthe Superfund Site | | PROJECT NO. 58117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: 00N-15 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: 13.71 | $(13.71 - 6.65) / 4 = 3.459$ | |
| DATE: 9/25/19 | TIME | AM / PM DEPTH TO GROUND WATER (FT): 6.65 |
| SAMPLING METHOD: low flow sampling | | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 1410 | | TOTAL PURGED: 4 gallons |

| TIME | WATER LEVEL | TEMP.(°C) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|-------|-------------|------------------|------|------------------|-------------|--------------|
| 13:23 | 7.29 | 20.30 | 7.53 | 1.29 | 63 | 0.41 |
| | — | purge ~3 gallons | — | — | — | — |
| 1341 | 10.55 | 18.43 | 7.57 | 0.712 | 90 | 1.78 |
| 1346 | 11.21 | 18.46 | 7.55 | 0.710 | 85 | 0.91 |
| 1351 | 11.49 | 18.67 | 7.51 | 0.729 | 85 | 0.46 |
| 1356 | 11.63 | 18.77 | 7.50 | 0.760 | 85 | 0.48 |
| 1401 | 11.82 | 18.78 | 7.47 | 0.771 | 85 | 0.42 |
| 1406 | 11.95 | 18.77 | 7.46 | 0.780 | 85 | 0.39 |
| 1410 | Sample | | | | | |
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|--------------------------------|--------|---|--------------------------------|
| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="radio"/> NO <input type="radio"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | | CLEAR | NOT NOTED |

CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING
METHOD PERFORMED

| | |
|-----------|--|
| COMMENTS: | |
| | |

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|-------------------------------|----------------|
| SAMPLED BY: KUK | DATE: 9/25/19 |
| REVIEWED BY: Scott D. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

PROJECT NAME: NW. Manitowoc Superfund Site

PROJECT NO. 58117057

PROJECT

LOCATION: Appleton, Wisconsin

SAMPLE POINT: MW-101

CASING DIAMETER: 2"

WELL DEPTH:

SAMPLE POINT DESCRIPTION:

DATE: 9/25/19

TIME

AM
/PMDEPTH TO GROUND WATER
(FT):

9/25/19--SAH

SAMPLING METHOD: Low flow sampling

FLOW RATE: ~200 mL/min.

SAMPLE TIME: 11:50

TOTAL PURGED: 1.5 gallons

| TIME | WATER LEVEL | TEMP.(°C) | pH | COND. ($\mu\text{s}/\text{cm}^3$) | ORP (mV) | DO (mg/L) |
|-------|-------------|-----------|------|--|------------------------|-------------------------|
| 11:27 | 5.68 | 17.94 | 6.68 | 7094 | 106.3 | 0.58 |
| 11:32 | 7.83 | 17.94 | 6.61 | 7094 | 94.7 | 0.41 |
| 11:37 | 8.25 | 18.03 | 6.61 | 7063 | 90.5 | 0.35 |
| 11:42 | 8.31 | 17.66 | 6.60 | 7026 | 88.6 | 0.32 |
| 11:47 | 8.42 | 18.22 | 6.60 | 7027 | 84.5 | 0.38 |
| | | | | | | |
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|--------------------------------|--------|-----------|--------------------------------|
| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | CLEAR | NOT NOTED | |

| |
|--|
| CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING |
| METHOD PERFORMED LEB |

| |
|-----------|
| COMMENTS: |
| |

| | |
|-------------------------------|----------------|
| SAMPLED BY: LEB | DATE: 9/25/19 |
| REVIEWED BY: Scott A. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

PROJECT NAME: NW. Manthe Superfund Site

PROJECT NO. 58117057

PROJECT

LOCATION: Appleton, Wisconsin

SAMPLE POINT: NW-103

SAMPLE POINT DESCRIPTION:

CASING DIAMETER: 2"

WELL DEPTH:

DATE: 9/25/19

TIME 15:05

AM /PM

DEPTH TO GROUND WATER (FT):

9/25/19-SAH

SAMPLING METHOD: low flow sampling

FLOW RATE: ~200 mL/min.

SAMPLE TIME: 15:38

TOTAL PURGED: 3 gallons

| TIME | WATER LEVEL | TEMP.(°C) | pH | COND. (μ g/L) | ORP (mV) | DO (mg/L) |
|-------|-------------|-----------|------|-----------------------|-------------|--------------|
| 13:05 | 5.16 | 13.13 | 7.32 | 713 | 65.5 | 3.00 |
| 13:10 | 7.75 | 12.66 | 6.97 | 680 | 69.2 | 1.06 |
| 13:15 | 8.68 | 12.79 | 6.96 | 676 | 67.3 | 1.06 |
| 13:20 | 8.90 | 12.87 | 6.88 | 641 | 70.2 | 1.99 |
| 13:25 | 9.35 | 13.24 | 6.86 | 626 | 75.2 | 3.63 |
| 13:30 | 9.89 | 13.22 | 6.84 | 619 | 80.1 | 4.38 |
| 13:35 | 10.44 | 13.88 | 6.83 | 606 | 82.3 | 4.61 |
| | | | | | | |
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SAMPLE APPEARANCE: VERY TURBID TURBID
SLIGHTLY TURBID CLEAR ODOR: YES NO
NOT NOTED ANALYSES: Diss Cr, Diss Fe, MnCLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING
METHOD PERFORMED LEB

COMMENTS:

| | |
|-------------------------------|----------------|
| SAMPLED BY: LEB | DATE: 9/25/19 |
| REVIEWED BY: Scott A. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|--|---------------------------|----------------------------------|
| PROJECT NAME: NW. Manitowoc Superfund Site | | PROJECT NO. 58117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: MW-104 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: | | |
| DATE: 9/25/19 | TIME | AM /PM |
| SAMPLING METHOD: low flow sampling | | DEPTH TO GROUND WATER (FT): 8.18 |
| SAMPLE TIME: 1531 | | FLOW RATE: ~200 mL/min. |
| | | TOTAL PURGED: ~ 2 gallons |

| TIME | WATER LEVEL | TEMP.(° C) | pH | COND. () | ORP () | DO () |
|------|-------------|------------|------|-----------|---------|--------|
| 1456 | 8.21 | 17.71 | 7.29 | 1.14 | -67 | 0.05 |
| 1501 | 8.84 | 15.95 | 7.14 | 1.16 | -66 | 0.00 |
| 1506 | 9.29 | 15.05 | 7.11 | 1.19 | -62 | 0.00 |
| 1511 | 9.57 | 14.63 | 7.09 | 1.20 | -61 | 0.00 |
| 1516 | 9.73 | 14.35 | 7.06 | 1.19 | -65 | 0.00 |
| 1521 | 9.89 | 14.34 | 7.04 | 1.19 | -66 | 0.00 |
| 1526 | 9.99 | 14.34 | 7.06 | 1.20 | -65 | 0.00 |
| 1531 | Sample | | | | | |
| | | | | | | |
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| | | | |
|--------------------------------|--------|---|--------------------------------|
| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="checkbox"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | | CLEAR | NOT NOTED |

| | |
|--|---|
| CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves | *INITIAL TO VERIFY OR NOTE OTHER CLEANING METHOD PERFORMED |
|--|---|

COMMENTS:
 (Handwritten note: "No cleaning performed")

| | |
|-------------------------------|----------------|
| SAMPLED BY: KK | DATE: 9/25/19 |
| REVIEWED BY: Scott A. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|--|-------------------------------|---|
| PROJECT NAME: N.W. Manthe Superfund Site | | PROJECT NO. 50117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: MW-106 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: 15.10 | $(15.10 - 6.22) .49 = 4.3512$ | |
| DATE: <u>9/25/19</u> | TIME | AM /PM DEPTH TO GROUND WATER (FT): 6.22 |
| SAMPLING METHOD: Low flow sampling | | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 14:30 | | TOTAL PURGED: 6.5 gallons |

| TIME | WATER LEVEL | TEMP.(°C) | pH | COND. (mg/lm) | ORP (mV) | DO (mg/L) |
|-------|-------------|-----------|------|------------------|-------------|--------------|
| 13:30 | 6.68 | 20.20 | 7.39 | 1467 | -48.2 | 2.39 |
| 13:57 | 10.17 | 19.84 | 7.25 | 873 | 49.2 | 1.86 |
| 14:02 | 10.51 | 19.27 | 7.07 | 914 | 33.1 | 1.22 |
| 14:07 | 10.89 | 19.22 | 7.03 | 991 | 38.5 | 1.10 |
| 14:12 | 11.33 | 19.07 | 7.01 | 1085 | 40.6 | 0.89 |
| 14:17 | 12.70 | 18.86 | 7.01 | 1133 | 35.5 | 0.61 |
| 14:22 | 13.08 | 18.68 | 7.02 | 1181 | 20.2 | 0.47 |
| 14:27 | 12.50 | 18.56 | 7.04 | 1261 | 21.8 | 0.36 |
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|---|--------|---|--------------------------------|
| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="checkbox"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID <input checked="" type="checkbox"/> CLEAR | | NOT NOTED | |

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|--|----------------------|
| CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY ON NOTE OTHER CLEANING | METHOD PERFORMED LEB |
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| COMMENTS: | |
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|-------------------------------|----------------|
| SAMPLED BY: LEB | DATE: 9/25/19 |
| REVIEWED BY: Scott A. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|--|---------------------------|---|
| PROJECT NAME: NW. Manitowoc Superfund Site | | PROJECT NO. 58117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: MW-107 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: | | |
| DATE: 9/25/19 | TIME | AM /PM DEPTH TO GROUND WATER (FT): 8.68 |
| SAMPLING METHOD: low flow sampling | | FLOW RATE: ~200 ml/min. |
| SAMPLE TIME: 1643 | | TOTAL PURGED: ~2 gallons |

| TIME | WATER LEVEL | TEMP.(° C) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|-------|-------------|------------|------|------------------|-------------|--------------|
| 16:11 | 9.46 | 17.74 | 7.40 | 0.932 | 55 | 2.23 |
| 16:16 | 10.54 | 17.27 | 7.36 | 0.891 | 42 | 0.00 |
| 16:21 | 10.80 | 15.37 | 7.39 | 0.942 | 49 | 0.83 |
| 16:26 | 11.20 | 15.34 | 7.37 | 0.946 | 52 | 0.89 |
| 16:31 | 11.56 | 15.51 | 7.36 | 0.942 | 56 | 0.44 |
| 16:36 | 11.80 | 15.81 | 7.34 | 0.938 | 58 | 0.78 |
| 16:41 | 12.10 | 16.08 | 7.33 | 0.934 | 62 | 0.77 |
| 16:46 | | | | | | |
| 1643 | Sample | | | | | |
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SAMPLE APPEARANCE: VERY TURBID TURBID
SLIGHTLY TURBID CLEAR ODOR: YES NO
NOT NOTED ANALYSES: Diss Cr, Diss Fe, Mn,
VOCs

CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING
METHOD PERFORMED

COMMENTS:

SAMPLED BY:

KM

DATE:

9/25/19

REVIEWED
BY:

Scott A. Hodgson

DATE: 10/31/19

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|--|-----------------------------------|--|
| PROJECT NAME: NW. Manitowoc Superfund Site | | PROJECT NO. 58117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: MW-108 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: 28.0 | (28.0 - 6.4) .49 = 10.584 gallons | |
| DATE: 9/25/19 | TIME | AM /PM DEPTH TO GROUND WATER (FT): 6.4 |
| SAMPLING METHOD: low flow sampling. | | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 12:43 | | TOTAL PURGED: |

Baseline
initial

| TIME | WATER LEVEL | TEMP.(°) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|-------|--------------|-------------|------|------------------|-------------|--------------|
| 11:15 | 6.7 | 14.96 | 7.41 | 2.961 | 2.30 | 70.4 |
| | — Purge | ~10 gallons | | | | |
| 12:10 | 15.55 | 18.52 | 7.20 | 2.67 | 102 | 1.70 |
| 12:15 | 15.69 | 18.39 | 7.11 | 2.67 | 97 | 0.89 |
| 12:20 | 15.9 | 17.85 | 7.08 | 2.70 | 95 | 0.67 |
| 12:25 | 16.08 | 17.68 | 7.06 | 2.69 | 92 | 0.59 |
| 12:30 | 16.21 | 17.47 | 7.07 | 2.66 | 89 | 0.52 |
| 12:35 | 16.35 | 17.38 | 7.07 | 2.66 | 88 | 0.50 |
| 12:40 | 16.41 | 17.20 | 7.07 | 2.65 | 88 | 0.49 |
| | | | | | | |
| | Sample 12:43 | | | | | |

| | | | |
|--------------------------------|--------|---|--------------------------------|
| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | | CLEAR <input checked="" type="checkbox"/> | NOT NOTED |

CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING
METHOD PERFORMED

COMMENTS:

SAMPLED BY:

KLF

DATE: 9/25/19

REVIEWED
BY:

Scott A. Hodgson

DATE: 10/31/19

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|--|---------------------------|--------------------------|
| PROJECT NAME: NW. Manitowoc Superfund Site | | PROJECT NO. 50117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: MW-109 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: | | |
| DATE: 9/25/19 | TIME | AM /PM |
| 9/26/19-SAH | | |
| SAMPLING METHOD: low flow sampling | | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 8:50 | | TOTAL PURGED: ~2 gallons |

| TIME | WATER LEVEL | TEMP.(° C) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|---------------|-------------|------------|------|------------------|-------------|--------------|
| 8:15 | 8.73 | 11.83 | 7.23 | 4.94 | 166 | 5.32 |
| 8:20 | 9.09 | 12.03 | 7.02 | 4.96 | 168 | 3.61 |
| 8:25 | 9.31 | 12.19 | 7.05 | 4.99 | 169 | 3.30 |
| 9:30 | 9.57 | 12.33 | 7.05 | 4.99 | 168 | 2.86 |
| 8:35 | 9.74 | 12.37 | 7.08 | 5.00 | 167 | 2.60 |
| 8:40 | 9.89 | 12.44 | 7.09 | 5.00 | 167 | 2.18 |
| 8:45 | 9.99 | 12.45 | 7.08 | 5.00 | 167 | 2.16 |
| | | | | | | |
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| 8:50 - Sample | | | | | | |
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| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="checkbox"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | CLEAR | NOT NOTED <input type="checkbox"/> | VOCs, <i>(Handwritten)</i> |

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|--|---|
| CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves | *INITIAL TO VERIFY OR NOTE OTHER CLEANING |
| METHOD PERFORMED | <i>(Signature)</i> |

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|-----------|--------------------|
| COMMENTS: | <i>(Signature)</i> |
|-----------|--------------------|

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|--------------|-------------------------|----------------|
| SAMPLED BY: | <i>CMC</i> | DATE: 9/26/19 |
| REVIEWED BY: | <i>Scott A. Hodgson</i> | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | | |
|--|---------------------------|--|-------------------------|
| PROJECT NAME: N.W. Manthe Superfund Site | | PROJECT NO. 58117057 | |
| PROJECT LOCATION: Appleton, Wisconsin | | | |
| SAMPLE POINT: MW-11D | SAMPLE POINT DESCRIPTION: | | |
| CASING DIAMETER: 2" | | | |
| WELL DEPTH: | | | |
| DATE: <u>9/25/19</u> | TIME 10:47 | AM /PM DEPTH TO GROUND WATER (FT): 5.8 | |
| 9/26/19--SAH | | SAMPLING METHOD: Low flow sampling. | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 12:03 | | TOTAL PURGED: ~2 gallons | |

| TIME | WATER LEVEL | TEMP.(° C) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|-------|-------------|------------|------|------------------|-------------|--------------|
| 11:29 | 7.3 | 15.62 | 6.97 | 1.12 | 59 | 0.00 |
| 11:34 | 8.52 | 15.56 | 6.86 | 1.10 | 15 | 0.00 |
| 11:39 | 9.21 | 15.16 | 6.90 | 0.937 | -49 | 0.00 |
| 11:44 | 9.89 | 15.26 | 6.95 | 0.926 | -51 | 0.00 |
| 11:49 | 10.41 | 15.34 | 6.95 | 0.932 | -51 | 0.00 |
| 11:54 | 10.93 | 15.43 | 6.93 | 0.947 | -52 | 0.00 |
| 11:59 | 10.41 | 15.44 | 6.92 | 0.949 | -52 | 0.00 |
| | | | | | | |
| 12:03 | | | | | | |
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| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="checkbox"/> | ANALYSES: Diss Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | <input checked="" type="checkbox"/> | NOT NOTED | VOCs, cyanide |

CLEANING PERFORMED IN FIELD: Alcohol and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING
METHOD PERFORMED

COMMENTS:

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|-------------------------------|----------------|
| SAMPLED BY: KCK | DATE: 9/26/19 |
| REVIEWED BY: Scott A. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | | |
|---|---------------------------|---|-------------------------|
| PROJECT NAME: NW. Manthe Superfund Site | | PROJECT NO. 58117057 | |
| PROJECT LOCATION: Appleton, Wisconsin | | | |
| SAMPLE POINT: MW- III | SAMPLE POINT DESCRIPTION: | | |
| CASING DIAMETER: 2" | | | |
| WELL DEPTH: | | | |
| DATE: <u>1/25/19</u> | TIME 10:42 | AM /PM DEPTH TO GROUND WATER (FT): <u>0000</u> 6.10 | |
| 9/26/19-SAH | | SAMPLING METHOD: low flow sampling. | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 9:34 | | TOTAL PURGED: ~2 gallons | |

| TIME | WATER LEVEL | TEMP.(° C) | pH | COND. (ms/cm) | ORP (mV) | DO (mg/L) |
|--------------|-------------|------------|------|------------------|-------------|--------------|
| 9:00 | 6.66 | 12.76 | 7.60 | 1.05 | 139 | 2.10 |
| 9:05 | 6.90 | 12.77 | 7.55 | 0.950 | 136 | 0.00 |
| 9:10 | 7.18 | 12.97 | 7.49 | 0.909 | 137 | 0.13 |
| 9:15 | 7.42 | 13.17 | 7.46 | 0.878 | 137 | 0.23 |
| 9:20 | 7.70 | 13.26 | 7.45 | 0.864 | 137 | 0.27 |
| 9:25 | 7.92 | 13.51 | 7.45 | 0.839 | 136 | 0.55 |
| 9:30 | 7.99 | 13.60 | 7.46 | 0.825 | 135 | 0.60 |
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| Sampled 9:34 | | | | | | |

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| SAMPLE APPEARANCE: <input checked="" type="checkbox"/> VERY TURBID <input type="checkbox"/> TURBID <input type="checkbox"/> SLIGHTLY TURBID <input checked="" type="checkbox"/> CLEAR | ODOR: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NOT NOTED | ANALYSES: Diss Cr, Diss Fe, Mn VOC, cyanide |
|--|--|--|

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|---|
| CLEANING PERFORMED IN FIELD: <i>Alcohol and Distilled Water AND Disposable gloves</i> *INITIAL TO VERIFY OR NOTE OTHER CLEANING METHOD PERFORMED |
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| COMMENTS: |
| DVP - BD-1 |

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| SAMPLED BY: <u>JLC</u> | DATE: <u>10/26/19</u> <u>1/26/19</u> <u>9/26/19</u> <u>1/26/19</u> <u>9/26/19</u> |
| REVIEWED BY: <u>Scott A. Hodgson</u> | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|---|---------------------------|------------------------------------|
| PROJECT NAME: NW. Manitowoc Superfund Site | | PROJECT NO. 50117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: MW-118 | SAMPLE POINT DESCRIPTION: | ⑥ |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: | | |
| DATE: 9/25/19 | TIME 10:39 | AM /PM DEPTH TO GROUND WATER (FT): |
| 9/26/19-SAH SAMPLING METHOD: Low flow sampling. | | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 10:28 | | TOTAL PURGED: ~2 gallon |

| TIME | WATER LEVEL | TEMP.(°C) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|-------|-------------|-----------|------|------------------|-------------|--------------|
| 9:54 | 4.25 | 13.65 | 7.52 | 1.14 | 121 | 0.30 |
| 9:59 | 4.94 | 13.92 | 7.36 | 1.09 | 108 | 0.00 |
| 10:04 | 5.41 | 14.05 | 7.22 | 1.08 | 112 | 0.00 |
| 10:09 | 5.98 | 14.22 | 7.16 | 1.07 | 115 | 0.00 |
| 10:14 | 6.14 | 14.35 | 7.16 | 1.05 | 118 | 0.00 |
| 10:19 | 6.28 | 14.81 | 7.15 | 1.04 | 119 | 0.00 |
| 10:24 | 6.42 | 14.82 | 7.16 | 1.04 | 119 | 0.00 |
| 10:28 | | | | | | |
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|--------------------------------|--------|---|---------------------------------|
| SAMPLE APPEARANCE: VERY TURBID | TURBID | ODOR: YES <input checked="" type="checkbox"/> | ANALYSES: Diss. Cr, Diss Fe, Mn |
| SLIGHTLY TURBID | CLEAR | NOT NOTED <input type="checkbox"/> | VOCs, Chromium |

CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OIL NOTE OTHER CLEANING
METHOD PERFORMED

COMMENTS:

[Large empty box]

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|--------------|------------------|----------------|
| SAMPLED BY: | KLC | DATE: 9/26/19 |
| REVIEWED BY: | Scott A. Hodgson | DATE: 10/31/19 |

TERRACON

GROUND WATER SAMPLING INFORMATION SHEET

| | | |
|--|---------------------------|--|
| PROJECT NAME: NW. Manitowoc Superfund Site | | PROJECT NO. 59117057 |
| PROJECT LOCATION: Appleton, Wisconsin | | |
| SAMPLE POINT: MW-113 | SAMPLE POINT DESCRIPTION: | |
| CASING DIAMETER: 2" | | |
| WELL DEPTH: 1 | | |
| DATE: <u>9/25/19</u> 9/26/19-SAH | TIME 10:45 | AM /PM DEPTH TO GROUND WATER (FT): 7.0 |
| SAMPLING METHOD: low flow sampling | | FLOW RATE: ~200 mL/min. |
| SAMPLE TIME: 11:20 | | TOTAL PURGED: |

| TIME | WATER LEVEL | TEMP.(° C) | pH | COND. (mS/cm) | ORP (mV) | DO (mg/L) |
|-------|-------------|------------|------|------------------|-------------|--------------|
| 10:48 | 7.58 | 15.31 | 7.47 | 1.55 | 130 | 0.00 |
| 10:53 | 7.86 | 15.38 | 7.45 | 1.29 | 128 | 0.00 |
| 10:58 | 8.07 | 15.48 | 7.40 | 1.23 | 128 | 0.00 |
| 11:03 | 8.28 | 15.59 | 7.39 | 1.21 | 127 | 0.00 |
| 11:08 | 8.54 | 15.70 | 7.28 | 1.18 | 130 | 0.00 |
| 11:13 | 8.73 | 15.76 | 7.20 | 1.13 | 134 | 0.00 |
| 11:18 | 8.94 | 15.77 | 7.19 | 1.13 | 134 | 0.00 |
| 11:20 | | | | | | |
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SAMPLE APPEARANCE: VERY TURBID TURBID
SLIGHTLY TURBID CLEAR ODOR: YES NO
NOT NOTED ANALYSES: Diss Cr, Diss Fe, Mn
 Cyanide, VOCs

CLEANING PERFORMED IN FIELD: Alconox and Distilled Water AND Disposable gloves *INITIAL TO VERIFY OR NOTE OTHER CLEANING
METHOD PERFORMED

COMMENTS:

| | |
|----------------------------------|----------------------|
| SAMPLED BY: KGC | DATE: <u>9/26/19</u> |
| REVIEWED BY: Scott A. Hodgson | DATE: 10/31/19 |

Appendix D

Form 4400-194

Notice: Pursuant to ss. NR 700.11(1) and 724.13(3), Wis. Adm. Code, this form is required to be completed or a narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation and is subject to the penalties as stated in s. 292.99, Wis. Stats. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). *Unless otherwise noted, all citations refer to Wisconsin Administrative Code.*

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 700.11(1) and s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 700.11(1) and s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for remediation projects that are regulated under the NR 700 series of Wis. Adm. Code. Specifically, for sites meeting any of the following criteria:

- Any site where a discharge has occurred that report progress in accordance with s. NR 700.11(1), Wis. Adm. Code until site closure is granted. This includes sites where no response activities occurred during the six month reporting period. **Attach, if applicable, a separate brief summary of the work completed during the reporting period and the anticipated future work.**
- Soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water 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.

Only complete and submit all of page GI-1 and Section E on pages 3 and 4 for sites where a discharge has been reported but no response, monitoring or remediation has begun or occurred during the six month reporting period that are required to report only under s. NR 700.11(1), Wis. Adm. Code **and attach, if applicable, a summary of the anticipated future work.**

Section GI - General Site Information

A. General Information

1. Site name

N.W. Mauthe Superfund Site (BRRTS #02-45-000127)

| | | | | | |
|--|------------|--|--------------|-----------------|-----|
| 2. Reporting period from: | 10/01/2018 | To: | 09/30/2019 | Days in period: | 365 |
| 3. Regulatory agency (enter DNR, DCOM, DATCP and/or other) | WDNR/USEPA | 4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific) | 02-45-000127 | | |

5. Site location

| | | | | | | | |
|-------------------|--|--|-------|------------------------------------|---------|---------------|---------------------------|
| Region | County | Address | | | | | |
| Northeast Region | Outagamie | 725 S. Outagamie Street, Appleton, Wisconsin | | | | | |
| Municipality name | <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village | Township | Range | <input checked="" type="radio"/> E | Section | $\frac{1}{4}$ | $\frac{1}{4} \frac{1}{4}$ |
| Appleton | | 21 N | 17 | <input type="radio"/> W | 34 | NE | NW |

6. Responsible party

Name

Carol Mauthe

Mailing address

194 C S West Avenue, Appleton, Wisconsin 54915

Phone number

Company name

Terracon Consultants, Inc.

Phone number

(414) 423-0255

8. Contaminants

chromium, cyanide, chlorinated solvents

7. Consultant

Select if the following information has changed since the last submittal

Site name: N.W. Mauthe Superfund Site (BRRTS #02-45-000127)
Reporting period from: 10/01/2018 To: 09/30/2019
Days in period: 365

**Remediation Site Progress and Operation,
Maintenance, Monitoring & Optimization
Report**
Form 4400-194 (R 1/14)

Page 2 of 29

9. Soil types (USCS or USDA)
lean clay (CL); silty clay (ML-CL)

10. Hydraulic conductivity(cm/sec): 3.90 E x 10-7 11. Average linear velocity of groundwater (ft/yr) 1.17

12. If soil is treated ex situ, is the treatment location off site? Yes No

If yes, give location: Region County

| | | | | | | | | | |
|-------------------|----------------------------|----------------------------|-------------------------------|----------|-------|------------------------------|---------|---------------|---------------------------|
| Municipality name | <input type="radio"/> City | <input type="radio"/> Town | <input type="radio"/> Village | Township | Range | <input type="radio"/> E N | Section | $\frac{1}{4}$ | $\frac{1}{4} \frac{1}{4}$ |
|-------------------|----------------------------|----------------------------|-------------------------------|----------|-------|------------------------------|---------|---------------|---------------------------|

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

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

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? Yes No

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 Yes No

If yes, explain:

The Southeast Trench does not drain as effectively as it could because the piping appears to be back-pitched, likely due to differential settling, and/or partial blockages in foundation drains/laterals associated with the residences. May need to develop plans to address these problems.

3. Is natural attenuation an effective low cost option at this time? Yes No

4. Is closure sampling warranted at this time? Yes No

5. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No

If yes, explain:

Site name: N.W. Mauthe Superfund Site (BRRTS #02-45-000127)
Reporting period from: 10/01/2018 To: 09/30/2019
Days in period: 365

**Remediation Site Progress and Operation,
Maintenance, Monitoring & Optimization
Report**
Form 4400-194 (R 1/14)

Page 3 of 29

D. Economic and Cost Data to Date

1. Total investigation cost: \$0.00
2. Implementation costs (design, capital and installation costs, excluding investigation costs): \$0.00
3. Total costs during the previous reporting period: \$15,590.93
4. Total costs during this reporting period: \$76,192.94
5. Total anticipated costs for the next reporting period: \$14,478.87

6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? Yes No

If yes, explain:

D3: Additional costs related to the PLC power supply alarm; biennial cross-connection inspection; and the initial diagnosis of the sump pit/basement water problem at 801 S Outagamie Street (Beardsley residence).

D4: Installation of a gravity drain system for the sump pit at 801 South Outagamie Street, including additional soil management and reporting, and power failure response/PLC upgrade.

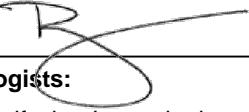
7. If closure is anticipated within 12 months, estimated costs for project closeout: \$0.00

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 for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

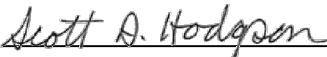
Registered Professional Engineers:

I 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.

| | |
|---|--------------------------|
| Print name | Title |
| Blaine R. Schroyer, P.E. | Principal/Office Manager |
| Signature  | Date <u>11/12/19</u> |

Hydrogeologists:

I 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.

| | |
|---|-------------------------|
| Print name | Title |
| Scott A. Hodgson, P.G. | Senior Project Manager |
| Signature  | Date <u>11/12/19</u> |

Scientists:

I 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.

| | |
|------------|-------|
| Print name | Title |
| Signature | Date |

Other Persons:

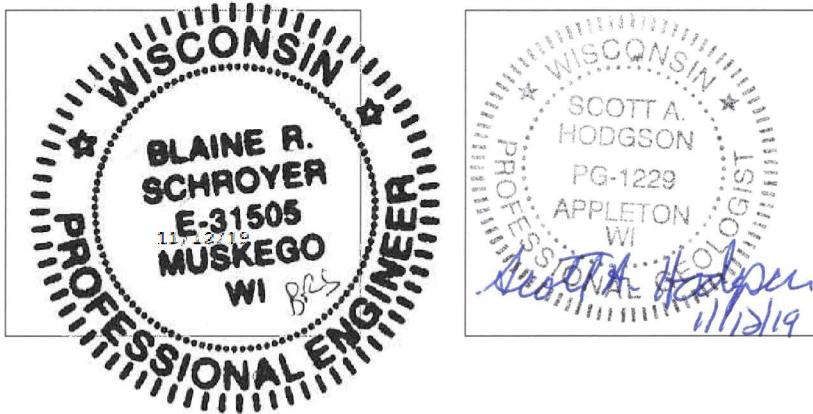
| | |
|------------|-------|
| Print name | Title |
| Signature | Date |

Site name: N.W. Mauthe Superfund Site (BRRTS #02-45-000127)
Reporting period from: 10/01/2018 To: 09/30/2019
Days in period: 365

**Remediation Site Progress and Operation,
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Professional Seal(s), if applicable:



Site name: N.W. Mauthe Superfund Site (BRRTS #02-45-000127)
Reporting period from: 10/01/2018 To: 09/30/2019
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Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

1. Total number of groundwater extraction wells or trenches available: 3 and the number in use during period: 3
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain:
365
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
95

4. Quantity of groundwater extracted during this time period: 1,054,354 gallons

5. Average groundwater extraction rate: 2 gpm

6. Quantity of dissolved phase contaminants removed during this time period in pounds: 3 lbs

B. Free Product Recovery System Operation

1. Is free product (nonaqueous phase liquid) being recovered at this site? Yes No

If yes, explain:

2. Quantity of free product extracted during this time period (enter none if none): _____ gallons

3. Average free product extraction rate: _____ gpm

C. System Effectiveness Evaluation

1. Is a contaminated groundwater plume fully contained in the capture zone? Yes No

If no, explain:

System designed only for containment

2. If free product is present, is the free product fully contained in capture zone? Yes No

If no, explain:

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: 5,010 ug/L Manganese in MW-113: 99.00 % for ES; 308 ug/L TCE in MW-113, 99.94% for PAL

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: 99.00 %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: 5,010 µg/L

d. Maximum contaminant concentration level in any extraction well of that contaminant: 5,010 µg/L

Site name: N.W. Mauthe Superfund Site (BRRTS #02-45-000127)
Reporting period from: 10/01/2018 To: 09/30/2019
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- e. If the maximum concentration in a monitoring well is more than 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 only 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.