need VOC vs T for mw113

add w.t. vs T for 109 111 + 112

QUARTERLY PROGRESS REPORT #34
January, February & March 2007
And
SEMI-ANNUAL OPERATION & MAINTENANCE REPORT
October 2006 through March 2007

N.W. MAUTHE
GROUNDWATER TREATMENT SYSTEM
BRRTS I.D. #02-45-000127
Appleton, Wisconsin

Prepared For The
WISCONSIN DEPARTMENT OF NATURAL RESOURCES

MCO requested Zn @ MW-112. Lab provided Zn @ MW-109 - MW-113.

McMAHON ASSOCIATES
ENGINEERS | ARCHITECTS | SURVEYORS | PROJECT MANAGERS

April 17, 2007

McM. No. M0050-930746.26
SAB:car

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y, STE 700
Oshkosh, Wisconsin 54901-9731
TELEPHONE 920-424-3050
FAX 920-424-4404

May 1, 2007

Mr. David Seely, RPM
U.S. EPA, HSRM-6J
77 W. Jackson Blvd.
Chicago, IL 60604-3590

SUBJECT: Quarterly Progress Report #34 (January, February & March 2007)
for
N. W. Mauthe Superfund Site, 725 S. Outagamie St., Appleton, WI
WDNR BRRTS #:02-45-000127

Dear Mr. Seely:

Enclosed please find a copy of the *Quarterly Progress Report #34, January, February & March 2007 and Semi-Annual Operation & Maintenance Report, October 2006 through March 2007,* for the N. W. Mauthe Superfund Site. The report was prepared by the operation and maintenance contractor, Midwest Contract Operations, Inc. (MCO). Please call me at the number below if you have any questions.

Sincerely,

Jennifer Borski
Hydrogeologist
Bureau for Remediation & Redevelopment
(920) 424-7887

Encl.

McMAHON ASSOCIATES, INC.
ENGINEERS ■ ARCHITECTS
PROJ. MGRS. ■ SURVEYORS

R + R - OSH
RECEIVED
JUN 0 1 2007

TRACKED ☐
REVIEWED ☐

Letter Of Transmittal

Ms. Jennifer Borski
WDNR
625 East County Rd. Y, Suite 700
Oshkosh, WI 54901-9731

Date: May 31, 2007
Subject:

McM No.

We are sending you the following: ☐ Attached, Via: ☐ Under Separate Cover Via:

☐ Report / Study ☐ Land Survey Drawings ☐ Contract / Agreement ☐ Change Order
☐ Plans / Specifications ☐ Shop Drawings ☐ Calculations ☐ Check
☐ Other:

Quantity	Date/No.	Description

These Items Are Transmitted As Checked Below:

☐ For Distribution ☐ Reviewed ☐ Resubmit ☐ Copies / Review
☐ For Your Use ☐ Reviewed & Revised ☐ Submit ☐ Copies / Distribute
☐ As Requested ☐ Returned For Corrections ☐ Return ☐ Corrected Prints
☐ For Review & Comment ☐ Construction ☐ Examination & Approval ☐ Other:

Remarks:

Jennifer,

Attached are the changes to the Mauthe Report. I went ahead and made the changes for the table of contents before the next report. Please contact me if you have questions.

Copy To:

Signed:
Stuart A. Boerst

If Enclosures Are Not As Noted, Kindly Notify Us At Once

I.D. \FORMS\TRANSMITTAL\TRANS-McM (In-House).DOC

APPENDIX E

GROUNDWATER ELEVATIONS VS. TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-109, MW-110, MW-111, MW112 & MW-113

6/1/07

APPENDIX E
GROUNDWATER ELEVATIONS VERSUS TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-109, MW-110, MW-111, MW-112 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Date Measured	Groundwater Elevation (feet)
MW-102	02/01/97	780.72
	05/01/97	780.89
	09/01/97	780.79
	12/01/97	780.95
	03/01/98	780.47
	06/01/98	780.72
	10/27/98	780.34
	02/08/99	780.61
	06/08/99	780.86
	09/13/99	780.75
	12/15/99	780.18
	03/13/00	780.45
	06/22/00	780.76
	09/27/00	780.80
	12/19/00	780.39
	03/01/01	778.44
	06/19/01	781.10
	09/24/01	780.57
	12/05/01	780.37
	03/19/02	780.70
	06/20/02	781.40
	09/18/02	779.95
	12/17/03	779.15
	03/24/03	780.65
	06/10/03	781.36
	09/10/03	780.39
	12/10/03	781.15
	03/23/04	780.81
	07/09/04	780.85
	09/21/04	779.72
	03/29/05	783.13
	06/20/05	780.56
	09/21/05	779.66
	03/21/06	780.98
	06/28/06	780.42
	09/20/06	779.22
	12/19/06	779.11
	03/13/07	779.96
MW-103	02/01/97	795.29
	05/01/97	791.83
	09/01/97	789.60
	12/01/97	787.78
	03/01/98	791.03
	06/01/98	789.13
	10/27/98	791.78
	02/08/99	793.50
	06/08/99	795.05
	09/13/99	793.95
	12/15/99	791.06
	03/13/00	794.07
	06/22/00	795.52
	09/27/00	795.98
	12/19/00	792.96
	03/01/01	794.59
	06/19/01	798.22
	09/24/01	793.94
	12/05/01	792.61
	03/19/02	798.78
	06/20/02	796.32
	09/18/02	794.74
	12/17/02	790.73
	03/24/03	796.11
	06/10/03	795.97
	09/10/03	794.14
	12/10/03	795.65
	03/23/04	797.73
	07/09/04	790.83
	09/21/04	793.44
	03/29/05	0.00
	06/20/05	794.19
	09/21/05	794.04
	03/21/06	795.87
	06/28/06	793.99
	09/20/06	792.51
	12/20/06	793.38
	03/13/07	793.83

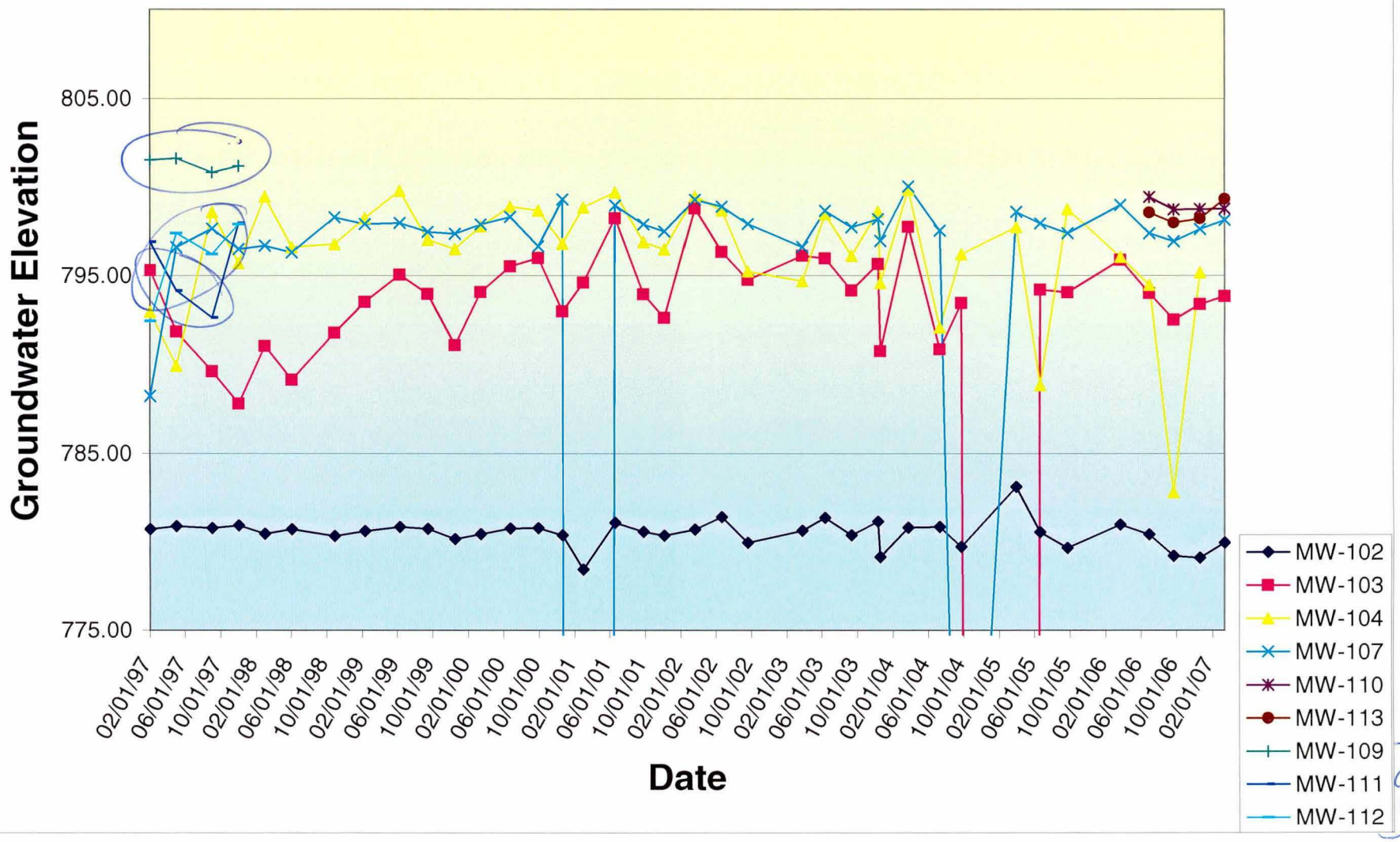
APPENDIX E
GROUNDWATER ELEVATIONS VERSUS TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-109, MW-110, MW-111, MW-112 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Date Measured	Groundwater Elevation (feet)
MW-104	02/01/97	792.94
	05/01/97	789.91
	09/01/97	798.59
	12/01/97	795.70
	03/01/98	799.46
	06/01/98	796.60
	10/27/98	796.77
	02/08/99	798.24
	06/08/99	799.79
	09/13/99	797.00
	12/15/99	796.50
	03/13/00	797.77
	06/22/00	798.88
	09/27/00	798.67
	12/19/00	796.79
	03/01/01	798.84
	06/19/01	799.71
	09/24/01	796.89
	12/05/01	796.47
	03/19/02	799.46
	06/20/02	798.68
	09/18/02	795.23
	12/17/02	794.58
	03/24/03	794.68
	06/10/03	798.47
	09/10/03	796.11
	12/10/03	798.62
	03/23/04	799.84
	09/21/04	792.07
	03/29/05	796.19
	06/20/05	797.71
	09/21/05	788.83
	03/21/06	798.75
	06/28/06	796.05
	09/20/06	794.47
	12/20/06	782.82
	03/13/07	795.17
MW-107	02/01/97	788.23
	05/01/97	796.60
	09/01/97	797.64
	12/01/97	796.49
	03/01/98	796.68
	06/01/98	796.31
	10/27/98	798.30
	02/08/99	797.90
	06/08/99	797.97
	09/13/99	797.46
	12/15/99	797.35
	03/13/00	797.88
	06/22/00	798.32
	09/27/00	796.65
	12/19/00	799.29
	03/01/01 *	0.00
	06/19/01	798.96
	09/24/01	797.88
	12/05/01	797.47
	03/19/02	799.27
	06/20/02	798.88
	09/18/02	797.90
	12/17/02	796.95
	03/24/03	796.60
	06/10/03	798.66
	09/10/03	797.72
	12/10/03	798.18
	03/23/04	800.02
	07/09/04	797.53
	09/21/04	746.51
	03/29/05	798.58
	06/20/05	797.92
	09/21/05	797.37
	03/21/06	798.97
	06/28/06	797.37
	09/20/06	796.92
	12/19/06	797.61
	03/13/07	798.11

APPENDIX E
GROUNDWATER ELEVATIONS VERSUS TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-109, MW-110, MW-111, MW-112 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

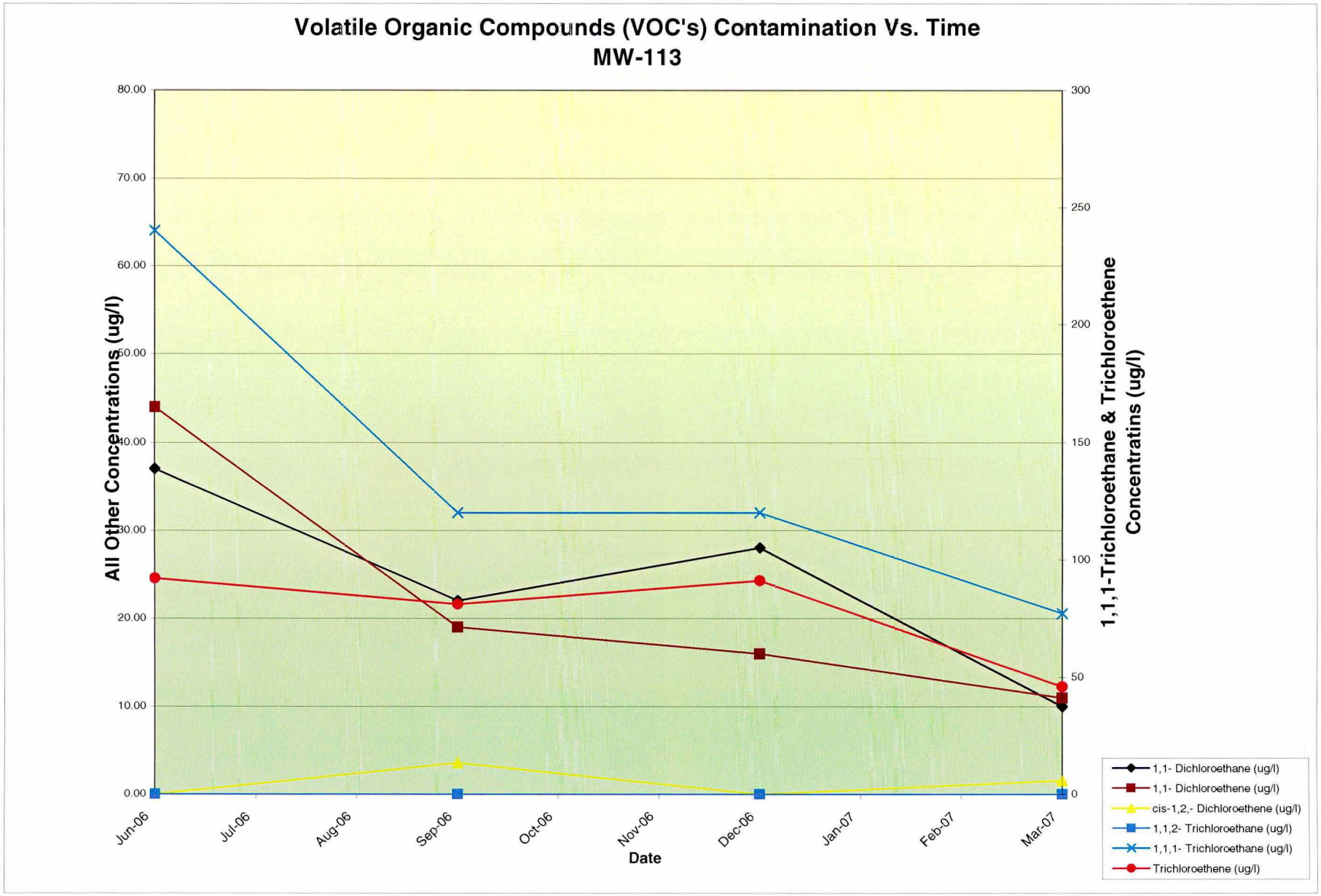
Well Name	Date Measured	Groundwater Elevation (feet)
MW-109	06/21/06	801.54
	09/20/06	801.62
	12/19/06	800.84
	03/13/07	801.20
MW-110	06/21/06	799.42
	09/20/06	798.72
	12/19/06	798.75
	03/13/07	798.77
MW-111	06/21/06	796.90
	09/20/06	794.14
	12/19/06	792.62
	03/13/07	797.96
MW-112	06/21/06	792.44
	09/20/06	797.39
	12/19/06	796.21
	03/13/07	797.91
MW-113	06/21/06	798.55
	09/20/06	797.97
	12/19/06	798.21
	03/13/07	799.31

GROUNDWATER ELEVATIONS VS. TIME GRAPHS



year is 97

10/1/07


Volatile Organic Compounds (VOC's) Contamination Vs. Time
MW-113
All Other Concentrations (ug/l)
1,1,1-Trichloroethane & Trichloroethene Concentratins (ug/l)
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
300
250
200
150
100
50
0
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07
Mar-07
Date
1,1- Dichloroethane (ug/l)
1,1- Dichloroethene (ug/l)
cis-1,2,- Dichloroethene (ug/l)
1,1,2- Trichloroethane (ug/l)
1,1,1- Trichloroethane (ug/l)
Trichloroethene (ug/l)

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McMAHON
ASSOCIATES
ENGINEERS | ARCHITECTS | SURVEYORS | PROJECT MANAGERS

April 17, 2007

Ms. Jennifer Borski
Wisconsin Department Of Natural Resources
625 East County Road "Y", Suite #700
Oshkosh, WI 54901-9731

Re: N.W. Mauthe Groundwater Treatment System
Appleton, Wisconsin
Quarterly Progress Report #34 & Semi-Annual Operation & Maintenance Report
BRRTS I.D. #02-45-000127
McM. No. M0050-930746.26

Dear Ms. Borski:

Enclosed, please find McMahon Associates, Inc.'s "Quarterly Progress Report #34" and "Semi-Annual Operation & Maintenance Report" for the N.W. Mauthe Groundwater Treatment System, 725 South Outagamie Street, Appleton, Wisconsin.

The Progress Report includes a brief background of the site history, a summary of groundwater sampling results, compliance sampling, and groundwater extraction system performance, and operation and maintenance activities. The Progress Report includes the months of January, February and March 2007. The Semi-Annual Operation & Maintenance Report includes the period of October 2006 through March 2007.

If you have any questions or require additional information, feel free to contact me.

Very truly yours,
McMahon Associates, Inc.

Stuart A. Boerst
Senior Hydrogeologist, P.S., P.H.

SAB:car
cc: Jessica Garratt - City of Appleton
Paul Much - MCO
Enclosure: Quarterly Progress Report #34 & Semi-Annual Operation & Maintenance Report

Professional Qualifications Statement

"I, Thomas J. Kispert, 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. 700 to 726, Wis. Adm. Code."

Thomas J. Kispert, P.E., C.C.S. / P.E. No. E-26225
Senior Project Engineer

4-19-07
Date

WISCONSIN
THOMAS J. KISPERT E-26225 NEENAH WIS.
PROFESSIONAL ENGINEER

[P.E. Stamp] 4-19-07

"I, Stuart A. Boerst, hereby certify that I am a Hydrogeologist, as the term is defined in s. NR 712.03(1), Wisconsin Administrative 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, Wisconsin Administrative Code."

Stuart A. Boerst, P.S., P.H.
Hydrogeologist

04/19/07
Date

WISCONSIN
STUART A. BOERST PS-9 NEENAH WI
PROFESSIONAL SOIL SCIENTIST

[P.S. Stamp] 04/19/07

WISCONSIN
STUART A. BOERST PH-28 NEENAH WI
PROFESSIONAL HYDROLOGIST

[P.H. - 28 Stamp] 04/19/07

QUARTERLY PROGRESS REPORT #34
January, February & March 2007
And
SEMI-ANNUAL
OPERATION & MAINTENANCE REPORT
October 2006 through March 2007

N.W. MAUTHE
GROUNDWATER TREATMENT SYSTEM
BRRTS I.D. #02-45-000127
Appleton, Wisconsin

Prepared For The
WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Prepared By
McMahon Associates, Inc.
Neenah, Wisconsin
April 17, 2007
McM. No. M0050-930746.26

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VII. PUBLIC CONTACTS

VIII. CONCLUSIONS & RECOMMENDATIONS

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QUARTERLY PROGRESS REPORT #34
January, February & March 2007
And
SEMI-ANNUAL
OPERATION & MAINTENANCE REPORT
October 2006 through March 2007

N.W. MAUTHE
GROUNDWATER TREATMENT SYSTEM
BRRTS I.D. #02-45-000127
Appleton, Wisconsin

Prepared For The
WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Prepared By
McMahon Associates, Inc.
Neenah, Wisconsin
April 17, 2007
McM. No. M0050-930746.26

I. SITE BACKGROUND

The N.W. Mauthe site is a former electroplating facility, located at 725 South Outagamie Street, Appleton, Wisconsin (refer to Figure #1, Site Location Map). The property was used for a chrome plating company, from 1960 until 1976. Electroplating of zinc, cadmium and, possibly, copper and silver was conducted from 1978 to 1987 in an adjacent building on the same property. After 1987, all plating operations ceased on the property.

Concerns over sub-surface discharges to the surrounding environment led the Wisconsin Department of Natural Resources (DNR) and United States Environmental Protection Agency (USEPA) to conduct a remedial investigation and clean up of the N.W. Mauthe site and surrounding properties.

The investigation determined the N.W. Mauthe site was contaminated with zinc, cadmium, chromium and cyanide. Additionally, several volatile organic compounds (VOC's) were also present.

Based upon the findings of the remedial investigation, the following actions were taken to remediate the N.W. Mauthe site and adjacent properties of the sub-surface contamination.

A. Demolition and removal of the buildings on the N.W. Mauthe property.

B. Excavation and off-site treatment of soils with a total chromium concentration of greater than 500 mg/kg.

C. Backfilling of the excavation with clean soils, capping the site with 2-feet of clay and topsoil, and the establishment of vegetative cover.

D. Installation of groundwater collection trenches and construction and operation of a groundwater treatment facility to contain and/or control groundwater contamination with ultimate compliance with groundwater Applicable or Relevant and Appropriate Requirements (ARAR's).

E. 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.

Midwest Contract Operations, Inc. (MCO) began operating the groundwater treatment system in February 1997. CH_2M Hill, the site engineer and project manager for the U.S. 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 Wisconsin DNR assumed the responsibility from the U.S. EPA for all operation and maintenance of the site. MCO was retained by the Wisconsin DNR for the operation and maintenance of the entire groundwater treatment system, including the groundwater monitoring wells. MCO performs groundwater sampling and maintenance of the system.

The groundwater collection trench system, the location of sump pump and drain connections, and the groundwater monitoring wells associated with the site are shown in Figure #2.

The groundwater extraction system is designed to capture groundwater containing contaminants at concentrations greater than the 1992 Chapter NR 140, Administrative Code Preventative Action Limits (PAL's). The system is designed using a course sand-filled trenches that influences groundwater flow. Groundwater will enter the trench, based upon the head differential between the local water table and the level maintained in the trench. Perforated drain pipe in the bottom of the trench drains water from the

trench to one of two manholes, after which the groundwater is pumped to the sanitary sewer with no treatment.

The collection trench system consists of the west, central and southeast segments, which are approximately 200, 280 and 600 linear feet in length, respectively. The trenches, shown on Figure #2, are constructed of coarse sand with perforated pipe at the base. The trenches are sealed from a depth of 3 feet to the surface to prevent infiltration of surface water. In normal operation, the water level in the trenches is maintained at or near the bottom of the trench. The trenches are sloped to promote drainage to the manholes and, in most parts of the trench, the water level will be near the bottom. As such, if the groundwater extraction system needs to be shutdown for repair or maintenance for a short period of time, the trenches will provide storage and will continue to act as a hydraulic barrier until the water in the trench rises to the level of the water table.

Four homes south of the facility have foundation drain systems that are connected to the groundwater collection system via gravity piping (801 South Outagamie Street, 1428 West Second Street, 1414 West Second Street and 1410 West Second Street). This piping includes a backwater valve to prevent back-up of groundwater into the foundation drain systems.

Groundwater collection in the west trench flows by gravity to Manhole #1, where the maximum depth of the trench extends about 32 feet below ground surface. Groundwater in the central and southeast trenches flows by gravity to Manhole #2, where the maximum depth of the trench extends about 31 feet below ground surface. The pumps in Manholes #1 and #2 pump groundwater to the treatment facility where it is discharged to the sanitary sewer.

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

In June 2005, Omnni Associates, Inc. installed four piezometers (PZ-5, PZ-6, PZ-7 and PZ-8).

In May 2006, Omnni Associates, Inc. installed five groundwater monitoring wells (MW-109 through MW-113).

II. GROUNDWATER EXTRACTION PROCESS

A. Groundwater Extraction System

Beginning in February 1997 through April 18, 2006 the treatment system consisted of a batch process. As part of the remediation phase at the N.W. Mauthe site, a groundwater collection system was installed on and adjacent to the N.W. Mauthe property. Approximately 1,080 lineal feet of coarse sand filled trenching was installed to draw groundwater from the contaminated areas to two collection sumps. From the collection sumps, groundwater was pumped to a 9,000 gallon holding tank, located within the treatment building.

Each batch of groundwater to be treated was pumped from the storage tank to the reaction tank. The batch process treatment system utilized ferrous sulfate and caustic additions to treat the contaminated groundwater. Through chemical addition, mixing, aeration and settling, the chromium was removed from the groundwater. The fully automated process treated approximately 2,700 gallons per batch (based on physical tank measurements) and is capable of treating four batches per day.

Treated groundwater decants from the reaction tank to the City of Appleton sanitary sewer system. The chromium containing sludge settles to the bottom of the reaction tank.

During each discharge, the effluent was tested for hexavalent chromium using a Hach Test kit. The pH is recorded off two meters, located in the reaction tank. The pH values from the two meters are recorded during discharge as the high and low pH values on a daily log sheet. The average of the two pH values was calculated. The effluent wastewater was tested quarterly for total chromium at a DNR approved environmental laboratory.

Beginning on April 18, 2006, the groundwater is directly discharged from the two sumps through a storage tank and into the City of Appleton sanitary sewer system with no treatment. The storage tank allows for sampling. An 8 week pilot project was conducted beginning on April 18, 2006.

For the months of January, February and March 2007, a total of 138,680-gallons of contaminated groundwater was extracted and discharged to the sewer system with no treatment. The effluent flows are recorded based on the effluent meter reading. The average groundwater concentration was calculated by taking an average of the weekly influent chromium concentrations over the 3-month period. Using the average groundwater concentration of 1.83 mg/l hexavalent chromium, the calculated reduction in hexavalent chromium would be 2.12 pounds over the 3-month period.

A summary of continuous discharge of untreated groundwater, for the period of January, February and March 2007, is included in Table #1.

B. Permit Monitoring & Reporting

1. Monthly Reporting

The Wisconsin DNR is provided with a monthly report summarizing operations at the site. The monthly reports include MCO's operating invoice for the month, a copy of the City of Appleton monthly report, a list of invoices paid during the month, and a copy of the facility log. Also included in this report is a narrative of any alarm call-outs or non-routine occurrences at the site.

2. Quarterly & Semi-Annual Reporting

Quarterly reports are submitted to the Wisconsin DNR and the City of Appleton covering the time periods of October through December (first), January through March (second), April through June (third), and July through September (fourth).

The reports include total flows for the quarter, Hach kit hexavalent chromium concentrations, laboratory hexavalent chromium concentrations, and laboratory total chromium concentrations. A summary of the direct groundwater discharge meter readings, Hach kit results and laboratory results for this period are contained in Table #1. For the time period covered by this report, there were no exceedances of the effluent discharge limits.

Semi-annual reporting consists of submittal of Wisconsin DNR Form 4400-194 with the second and fourth Quarterly Progress Reports. The form for the period October 1, 2006 through March 31, 2007 is presented in Appendix A.

The quarterly reports include site background, a description of the groundwater extraction and discharge process and analytical results, groundwater sampling procedures and results, a discussion of public contacts, applicable operation and maintenance activities, and MCO's conclusions and recommendations.

The Semi-Annual Operation & Maintenance Report includes a summary of routine operation and maintenance activities at the site, groundwater monitoring results, groundwater extraction performance, conclusions and recommendations.

III. GROUNDWATER COLLECTION SYSTEM

A. Collection Trenches

The groundwater collection system utilizes approximately 1,080 linear feet of coarse sand filled trenching, which was installed to draw groundwater from the contaminated areas to two collection sumps. Collection Sump #1, designated Manhole #1 on the Site Map and located at the southwest corner of the property, collects flows from below the Miller Electric parking lot and the south end of the Mauthe property.

Collection Sump #2, designated Manhole #2 on the Site Map and located along Outagamie Street south of the railroad tracks, collects flow from the triangular area bounded by the railroad tracks, Outagamie Street and Second Street.

Groundwater flows from the Mauthe site tend to flow southward toward the collection trenches (Figure #3). South of the railroad tracks, groundwater flows towards the closest collection trench. The exact radius of influence of the trenches is not known. However, based upon the groundwater analytical results from the wells located around the perimeter of the plume, the plume appears to be controlled horizontally.

Foundation drains at 1410 and 1414 West Second Street and 801 South Outagamie Street are connected to the collection trench system. Additionally, the sump pump at 1428 West Second Street is connected to the system.

IV. COMPLIANCE SAMPLING

Compliance sampling of the treatment system effluent is conducted twice per year by the City of Appleton. The effluent is analyzed for all the parameters listed in Table #2. Process compliance samples are collected according to the following schedule. Total chromium is tested monthly. Hexavalent chromium is tested weekly for the months of April through October, and monthly from November through March. Flows and pH are recorded during the sampling events. The most recent process compliance sample was collected on April 2, 2007.

MCO collects one compliance sample from the outfall during the first quarter of each calendar year. Four quarterly process compliance samples per year are tested for one or more of the following: flow, pH, hexavalent chromium and total chromium. The sample collected for analysis by MCO was collected April 2, 2007. The Total Chromium concentration was 1.41 mg/l.

A summary of the compliance sampling results from Outfall 001 are contained in Table #3. The sampling results are presented in Appendix B. During the period from January

through March 2007, there were no exceedances of the City of Appleton Industrial User Discharge Permit.

V. GROUNDWATER SAMPLING

A. Groundwater Sampling Procedures

A total of 16 groundwater monitoring wells and four piezometers are associated with the groundwater extraction system.

Groundwater levels are measured in the monitoring wells and piezometers, relative to the north side of the top of the well casing. A summary of the historical groundwater levels for the site is included in Table #4. The groundwater contours for groundwater monitoring wells, relative to the site are shown on Figure #3.

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

1. Elimination of quarterly sampling for copper, zinc, mercury and cyanide at all site wells.

2. Reduction in VOC sampling frequency from quarterly to annual.

3. Elimination of weekly testing for total suspended solids on the treated effluent.

EPA approved the 1999 request on January 18, 2000.

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

1. Elimination of quarterly cadmium sampling at all site wells.

2. Reduction in the frequency from quarterly to annual sampling of manganese at all site wells. Manganese detections did not appear to be related to contamination from the plating operations.

3. Reduction in the frequency from quarterly to annual sampling of total dissolved chromium at W-2, W-8, W-15, MW-101, MW-102, MW-105, MW-106 and MW-108.

4. Elimination of annual VOC sampling at W-2, W-8, W-15, MW-101, MW-102, MW-103, MW-104, MW-105, MW-106 and MW-108.

EPA approved the 2003 request on April 17, 2003.

Sixteen groundwater monitoring wells were sampled on March 27 – 29, 2007, for Total Chromium and/or VOC's and/or zinc and/or cyanide and manganese. A dedicated submersible pump is installed in each well. Water level measurements were collected from each monitoring well, prior to sampling. Each sampled well was slowly pumped dry and allowed to recharge. The wells were then pumped dry again, allowed to recharge and then sampled. Purge water from the wells was collected and dumped into the collection sumps. The pump water volumes collected from the groundwater wells and the field testing data are included in Table #5. The groundwater sampling field documentation sheets are presented in Appendix C.

The sampling process utilized a flow through cell to read the pH, temperature, conductivity, redox potential and dissolved oxygen in each well. Flow through the cell was maintained at approximately 250 ml/min. utilizing a resister to control pump flow. The same approximate flow rate was maintained for purging and sampling. Groundwater samples were collected after a well had been purged dry twice. The pH, conductivity, redox potential and dissolved oxygen readings for each monitoring well were recorded just prior to sampling. The groundwater samples were collected in the order of VOC vials first (if applicable) and metal samples second. The metal samples were field filtered with a 45 mircon in-line filter. The laboratory containers supplied for metals analysis include nitric acid as preservative. The collected samples were submitted to Pace Analytical, Green Bay, Wisconsin. The collected samples were analyzed for selected metals and Volatile Organic Compounds (VOC's), as specified by the Wisconsin DNR. Ferrous iron testing was conducted using field Hach test kits.

B. Groundwater Sampling Results

The collected groundwater samples were analyzed for one or more of the following: Total Dissolved Chromium, VOC's, zinc, cyanide and manganese. Field analysis was conducted at all the monitoring wells for pH, temperature, specific conductivity, dissolved oxygen, Redox potential and ferrous iron. The field testing results are contained in Table #5. The laboratory analytical results are presented on Tables #6 and #7.

The laboratory analytical results indicate that levels of total chromium exceed the 1992 DNR NR 140.10 Groundwater PAL in monitoring wells MW-103 (31 ug/l), MW-104 (160 ug/l), MW-107 (4,200 ug/l), MW-109 (2,700 ug/l), MW-110 (47,000 ug/l), MW-111 (2,300 ug/l), MW-112 (140,000 ug/l) and MW-13 (11,000 ug/l).

Additionally, one to six VOC compounds (1,1-Dichloroethane, 1,1-Dichoroethene, cis-1,2,-Dichloroethene, trans-1,2,-Dichloroethene, 1,1,1-Trichloroethane and Trichloroethene) were detected in MW-107, MW-109, MW-110, MW-111, MW-112 and MW-113 at concentrations above the 1992 NR 140.10 PAL. An isoconcentration map for total chromium concentrations is shown on Figure #4. The Chain Of Custody Forms and laboratory analytical data are included in Appendix D.

The Groundwater Elevation Versus Time Graph for all ~~the wells is~~ presented in Appendix E. Graphs for Chromium ~~And Manganese~~ Concentrations Over Time for ~~all the wells~~ are contained in Appendix F. For graphing purposes, analytical results below the laboratory LOD were listed at half the analytical laboratory's method detection limit. A graph of the Detected VOC Compounds at MW-107 Over Time is contained in Appendix G.

A summary of the weekly influent Hexavelent Chromium concentrations is contained in Table #8.

VI. ROUTINE OPERATION & MAINTENANCE ACTIVITIES

Completed operations log sheets are kept on file at the groundwater treatment facility for all of the operation and maintenance activities listed below.

A. Weekly Operation & Maintenance Activities

The following activity is conducted on a weekly basis.

1. Test influent chromium concentration in storage tank, utilizing a Hach test kit.

The weekly checks are documented on log sheets, which are kept on file at the treatment facility.

B. Monthly Operation & Maintenance Activities

The following activities are performed each month, generally near the first of the month.

1. Unit Heaters

The unit heaters are checked during cold weather for proper operation, excessive noise and vibration. The heaters are shut-off in spring and turned on in the fall.

2. Air Conditioner

The facility heater / air conditioner is checked for proper operation and the air filter is cleaned, as-needed.

3. Water Heater

The water heater is checked for any visible leaks. The relief valve is tested for proper operation. Between 1 and 2-quarts of water are drained from the tank monthly.

4. Ceiling Fans

The ceiling fans are checked for excessive vibration or dirt build-up.

5. Safety Shower

The safety shower is tested monthly for proper operation.

C. Annual Operation & Maintenance Activities

The following activities are performed on an annual basis.

1. The unit heaters are cleaned and test fired. This will normally occur in September of the year. The Operation & Maintenance Plan for the facility calls for lubrication of the heater motors. The actual maintenance of the heaters deviates from the Operation & Maintenance Plan because the moving parts on the heaters have sealed bearings and do not require lubrication.

2. The submersible pumps in the two collection sumps and building sump are removed and the lubricating oil changed. The Operation & Maintenance Plan for the facility calls for replacement of the mechanical seal, oil filter, plug gasket and o-rings be replaced annually. A visual observation of the condition of the oil is done to verify the integrity of the pump seals. If no water is noted in the removed pump oil, the seals and o-rings are not changed. The pump maintenance activities are scheduled for November. A spare pump is kept on the site in the event of a failure.

3. The ceiling fan blades are cleaned during the September operation and maintenance activities.

D. Periodic Operation & Maintenance Activities

The following activities are performed on an as-needed basis throughout the year.

1. Lawn mowing and snow removal is conducted as required.

2. The effluent flow meter operation is checked during each discharge. According to the factory representative, there are no operator performed calibration functions for the flow meter, unless a hardware failure occurs.

E. Significant Operation & Maintenance Activities

There were no other significant operation and maintenance activities performed between October 2006 and March 2007.

F. Emergency Operation Shut Downs

There were no emergency shut-downs during the reporting period.

VII. PUBLIC CONTACTS

There were no public contacts during this reporting period.

VIII. CONCLUSIONS & RECOMMENDATIONS

The groundwater laboratory results from the 16 monitoring wells associated with the N.W. Mauthe groundwater treatment system indicate the groundwater plume is being controlled horizontally by the groundwater collection trenches.

The latest round (March 2007) of groundwater samples collected from six of the monitoring wells, indicates residual chromium contamination above the 1992 DNR NR 140.10 PAL exists in monitoring wells MW-103, MW-104, MW-107, MW-109, MW-110, MW-111, MW-112, and MW-113. Additionally, one to six VOC compounds in excess of the 1992 NR 140.10 PAL were detected in MW-107, MW-109, MW-110, MW-111, MW-112 and MW-113.

A total of 138,680-gallons of impacted groundwater has been extracted during the months of January, February and March 2007, and discharged to the City of Appleton municipal sanitary sewer system with no treatment. A total of 2.12-pounds of chromium was removed during the three month period. Analysis by MCO and the City of Appleton

of the treatment system effluent did not indicate any exceedances of the local discharge permit limits for the site.

Based upon the March 2007 groundwater sampling results and the effluent process analytical results, McMahon Associates, Inc. recommends continued operation of the groundwater extraction and direct discharge system at the N.W. Mauthe groundwater remediation site.

Table #1

GROUNDWATER EFFLUENT DISCHARGES
January, Febraury & March 2007
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Date	Flow Meter Reading	Gallons Discharged	pH	Discharge Hexavalent Chromium Concentration Hach Test Kit Mg/l	Discharge Hexavalent Chromium Concentration Lab Test Mg/l	Discharge Total Chromium Concentration Lab Test Mg/l
01/02/07	7807593	22,751				
01/03/07	7807593	0	8.0	2.00	1.60	1.50
01/09/07	7830067	22,474				
01/16/07	7841798	11,731				
01/23/07	7849743	7,945				
01/30/07	7855575	5,832				

Total Monthly Discharge Gallons 70,733

Date	Flow Meter Reading	Gallons Discharged	pH	Discharge Hexavalent Chromium Concentration Hach Test Kit Mg/l	Discharge Hexavalent Chromium Concentration Lab Test Mg/l	Discharge Total Chromium Concentration Lab Test Mg/l
02/07/07	7860248	4,673				
02/08/07	7860248	0	8.0	1.50	1.80	1.80
02/13/07	7863989	3,741				
02/20/07	7866904	2,915				
11/28/06	7869050	2,146				

Total Monthly Discharge Gallons 13,475

Date	Flow Meter Reading	Gallons Discharged	pH	Discharge Hexavalent Chromium Concentration Hach Test Kit Mg/l	Discharge Hexavalent Chromium Concentration Lab Test Mg/l	Discharge Total Chromium Concentration Lab Test Mg/l
03/05/07	7871214	2,164				
03/06/07	7871214	0	7.9	1.50	2.10	2.00
03/13/07	7881638	10,424				
03/20/07	7900879	19,241				
07/21/07	7902324	1,445				
03/22/07	7902324	0				
03/27/07	7923522	21,198				

Total Monthly Discharge Gallons 54,472

Table #2

CITY OF APPLETON EFFLUENT COMPLIANCE LIMITS
Effluent Point 001
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

	Aluminum (mg/l)	Arsenic (mg/l)	Cadmium (mg/l)	Chromium Total (mg/l)	Copper (mg/l)	Cyanide (mg/l)	Lead (mg/l)	Mercury (mg/l)	Nickel (mg/l)	Zinc (mg/l)	Hexavalent Chromium (mg/L)
Effluent Limits Permit #06-21	70	1.0	0.3	7.0	3.5	1.0	2.0	0.002	2.0	10.0	4.5

mg/l = milligram / liter
ug/l = microgram / liter

Note: Based upon City of Appleton Permit No. 06-21.

Table #3

EFFLUENT POINT #001 ANALYTICAL RESULTS
Effluent Point 001
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Sample Name	Sample Date	Aluminum (mg/l)	Arsenic (mg/l)	Cadmium (mg/l)	Chromium Total (mg/l)	Copper (mg/l)	Cyanide (mg/l)	Lead (mg/l)	Mercury (mg/l)	Nickel (mg/l)	Zinc (mg/l)	Hexavalent Chromium (mg/L)
Outfall 001*	02/20/97	<.02	<.003	<.00050	0.0400	<.01	<.00001	<.005	<.0002	<.005	0.0051	<.01
Outfall 001*	05/27/97	NA	NA	NA	0.2600	NA	NA	NA	NA	NA	NA	NA
Outfall 001*	09/11/97	NA	NA	NA	0.5570	NA	NA	NA	NA	NA	NA	NA
Outfall 001*	12/12/97	NA	NA	NA	0.2790	NA	NA	NA	NA	NA	NA	NA
Outfall 001*	03/24/98	0.0152	<.002	<.00004	0.0637	<.0095	<.0017	<.0006	<.000015	<.0095	0.0046	0.1000
Outfall 001**	04/29/98	<.011	<.002	<.005	0.2200	<.05	0.0020	<.1	<.0002	<.04	<.005	NA
Outfall 001*	06/10/98	NA	NA	NA	0.0784	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	10/07/98	<.011	<.002	0.0050	0.1700	<.05	<.001	<.1	<.0002	<.04	0.0250	NA
Outfall 001***	10/27/98	NA	NA	NA	0.0940	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	02/09/99	NA	NA	NA	0.1600	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	03/18/99	<.009	<.003	<.00031	NA	.00068****	<.000032	<.0024	<.00005	.00351****	<.012	<.0036
Outfall 001**	03/18/99	<.011	<.002	<.005	<0.05	<.05	0.0010	0.1000	<.00005	0.0400	0.0180	NA
Outfall 001***	06/08/99	NA	NA	NA	0.1900	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	09/13/99	NA	NA	NA	0.1700	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	09/21/99	<.011	<.002	<.005	<.05	<.05	0.0030	<.1	<.00015	<.04	0.0080	NA
Outfall 001***	12/15/99	NA	NA	NA	0.0870	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	02/15/00	<.015	<.0020	<.005	0.0900	<.05	<.001	<.1	<.00013	<.04	0.0280	NA
Outfall 001***	03/13/00	<.009	<.003	<.00031	0.1400	<.0006	<.0044	<.0024	<.00005	0.0012	<.012	NA
Outfall 001***	06/22/00	NA	NA	NA	0.2400	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	09/27/00	NA	NA	NA	0.5100	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	12/19/00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	02/21/01	<0.15	<.002	<.005	0.11	<.05	0.001	<.1	<.00013	<.04	0.042	NA
Outfall 001***	03/01/01	<.034	<.0027	.012 ****	0.25	.0088 ****	<.0033	<.17	<.00005	.036 ****	0.015	<.0036
Outfall 001***	06/19/01	NA	NA	NA	0.11	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	09/24/01	NA	NA	NA	0.16	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	10/02/01	0.016	<.002	<.005	0.14	<.05	<.001	<.1	<.00013	<.04	0.065	NA
Outfall 001***	12/05/01	NA	NA	NA	0.042	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	03/19/02	<.034	<.0027	<.0075	0.36	<.0077	<.0027	<.17	<.00005	<.017	<.012	<.0036
Outfall 001**	05/02/02	<.049	<.012	<.014	0.362	<.015	<.0014	<.060	<.00011	<.011	<.009	NA
Outfall 001***	06/20/02	NA	NA	NA	0.67	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	09/18/02	NA	NA	NA	0.11	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	11/12/02	0.027	<.0082	<.00053	0.23	<.009	<.0007	<.00084	<.000028	0.0044	0.0081	NA
Outfall 001***	12/17/02	NA	NA	NA	0.0082	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	02/11/03	<0.027	<.0082	<.00053	0.086	<.0009	<.0014	<.0013	<.000028	0.0036	<.0025	NA
Outfall 001**	03/24/03	<.045	<.0027	<.0088	0.13	0.075	<.0050	<.16	<.000050	<.019	<.0044	<.0036
Outfall 001***	06/11/03	NA	NA	NA	<.019	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	09/10/03	NA	NA	NA	<.019	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	10/23/03	0.0045	0.0013	<0.0001	0.221	<0.0008	<0.005	<0.0006	0.0002	<0.025	<0.010	NA
Outfall 001***	12/10/03	NA	NA	NA	<.019	NA	NA	NA	NA	NA	NA	NA

Table #3

EFFLUENT POINT #001 ANALYTICAL RESULTS
Effluent Point 001
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Sample Name	Sample Date	Aluminum (mg/l)	Arsenic (mg/l)	Cadmium (mg/l)	Chromium Total (mg/l)	Copper (mg/l)	Cyanide (mg/l)	Lead (mg/l)	Mercury (mg/l)	Nickel (mg/l)	Zinc (mg/l)	Hexavalent Chromium (mg/L)
Outfall 001**	03/24/04	<0.050	<0.0026	<0.010	0.15	<0.0060	<0.0050	<0.16	<0.000025	<0.020	<0.010	NA
Outfall 001***	08/09/04	NA	NA	NA	0.055	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	09/22/04	NA	NA	NA	0.15	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	11/09/04	0.0071	<0.0012	<0.0001	0.04	0.0008	<0.005	<0.008	<0.0002	0.0013	<0.01	NA
Outfall 001***	12/09/04	NA	NA	NA	1.6	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	03/29/05	NA	NA	NA	0.041	NA	NA	NA	NA	NA	NA	<0.0027
Outfall 001***	06/22/05	NA	NA	NA	0.065	NA	NA	NA	NA	NA	NA	NA
Outfall 001***	08/08/05	0.023	<0.0035	<0.0003	0.039	0.0019	<0.0037	<0.0011	<0.000026	<0.0044	0.0024	<0.005
Outfall 001***	09/21/05	NA	NA	NA	0.52	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	11/05/06	0.0052	<0.0012	<0.0001	0.088	<0.0005	<0.005	<0.0008	<0.0002	0.0017	<0.010	NA
Outfall 001***	12/16/05	NA	NA	NA	0.095	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	02/23/06	0.0021	<0.0012	<0.0001	0.08	<0.0005	<0.0005	<0.0008	<0.0002	0.0022	<0.010	NA
Outfall 001***	03/23/06	<0.20	<0.0076	<0.00074	0.32	0.0018	0.0043	<0.0034	<0.000026	0.0033	<0.020	NA
Outfall 001**	06/27/06	<0.200	<0.0076	<0.00074	0.700	0.0016	<0.0094	<0.0034	<0.000072	0.0021	<0.020	<0.350
Outfall 001***	09/20/06	NA	NA	NA	1.100	NA	NA	NA	NA	NA	NA	NA
Outfall 001**	10/05/06	0.037	<0.00011	<0.0001	4.575	0.0068	0.01	<0.001	<0.0002	0.0026	<0.010	NA
Outfall 001***	12/06/06	NA	NA	NA	2.0	NA	NA	NA	NA	NA	NA	2.40
Outfall 001***	04/02/07	0.0383	0.00024	0.000086	1.41	0.0041	<0.0094	0.00013	<0.000063	0.0035	0.009	NA
Effluent Limits Permit #06-21		70.0000	1.0000	0.3000	7.0000	3.5000	1.0000	2.0000	0.0020	2.0000	10.0000	4.5000

mg/l = milligram / liter
ug/l = microgram / liter
NA = not analyzed
* = Sampled by CH2M Hill
** = Sampled by the City of Appleton
*** = Sampled by MCO
**** = Detect of compound in area of less certain quantitation.

Table #4

GROUNDWATER ELEVATIONS
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

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
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

Table #4

GROUNDWATER ELEVATIONS
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
W-8 (continued)	12/14/05	6.71		796.65
	03/21/06	6.57		796.79
	06/28/06	7.18		796.18
	09/20/06	7.07		796.29
	12/19/06	6.87		796.49
	03/13/07	6.48		796.88
W-15	02/01/97	-		793.97
	05/01/97	-		796.92
	09/01/97	-		797.23
	12/01/97	-	803.76	795.52
	03/01/98	-		796.78
	06/01/98	-		796.32
	10/27/98	7.95		795.81
	02/08/99	9.19		794.57
	06/08/99	6.89		796.87
	09/13/99	7.85		795.91
	12/15/99	8.97		794.79
	03/13/00	7.80		795.96
	06/22/00	6.42		797.34
	09/27/00	6.30		797.46
	12/19/00	7.99		795.77
	03/01/01	9.52		794.24
	06/19/01	6.91		796.82
	09/24/01	6.65		797.11
	12/05/01	8.15		795.61
	03/19/02	7.22		796.54
	06/20/02	6.84		796.92
	09/18/02	7.28		796.48
	12/17/02	9.98		793.78
	03/24/03	9.77		793.99
	06/10/03	7.04		796.72
	09/10/03	7.06		796.70
	12/10/03	7.15		796.61
	03/23/04	6.58		797.18
	07/09/04	6.45	803.66 ****	797.21
	09/21/04	7.26		796.40
	03/29/05	7.50		796.16
	06/20/05	6.82		796.84
	09/21/05	7.05		796.61
	12/14/05	7.88		795.78
	03/21/06	6.95		796.71
	06/28/06	6.98	803.42 *****	796.44
	09/20/06	7.13		796.29
	12/19/06	8.02		795.40
	03/13/07	7.22		796.20
MW-101	02/01/97	-		797.16
	05/01/97	-		799.99
	09/01/97	-		798.67
	12/01/97	-	807.59	798.21
	03/01/98	-		803.43
	06/01/98	-		800.48
	10/27/98	10.26		797.33
	02/08/99	11.91		795.68
	06/08/99	9.79		797.80
	09/13/99	10.35		797.24
	12/15/99	9.01		798.58
	03/13/00	12.67		794.92
	06/22/00	6.28		801.31
	09/27/00	10.41		797.18
	12/19/00	10.73		796.86
	03/01/01	12.61		794.98
	06/19/01	8.43		799.16
	09/24/01	10.50		797.09
	12/05/01	10.98		796.61
	03/19/02	8.10		799.49
	06/20/02	7.08		800.51
	09/18/02	10.23		797.36
	12/17/02	12.47		795.12
	03/24/03	10.00		797.59
	06/10/03	7.41		800.18
	09/10/03	9.53		798.06
	12/10/03	8.31		799.28

Table #4

GROUNDWATER ELEVATIONS
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-101 (continued)	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
MW-102	02/01/97	-		780.72
	05/01/97	-		780.89
	09/01/97	-		780.79
	12/01/97	-	804.45	780.95
	03/01/98	-		780.47
	06/01/98	-		780.72
	10/27/98	24.11		780.34
	02/08/99	23.84		780.61
	06/08/99	23.59		780.86
	09/13/99	23.70		780.75
	12/15/99	24.27		780.18
	03/13/00	24.00		780.45
	06/22/00	23.69		780.76
	09/27/00	23.65		780.80
	12/19/00	24.06		780.39
	03/01/01	26.01		778.44
	06/19/01	23.35		781.10
	09/24/01	23.88		780.57
	12/05/01	24.08		780.37
	03/19/02	23.75		780.70
	06/20/02	23.05		781.40
	09/18/02	24.50		779.95
	12/17/03	25.30		779.15
	03/24/03	23.80		780.65
	06/10/03	23.09		781.36
	09/10/03	23.98	804.37 ***	780.39
	12/10/03	23.22		781.15
	03/23/04	23.56		780.81
	07/09/04	23.52		780.85
	09/21/04	24.65		779.72
	03/29/04	21.24		783.13
	06/20/05	23.81		780.56
	09/21/05	24.71		779.66
	12/14/05	24.25		780.12
	03/21/06	23.39		780.98
	06/28/06	23.95		780.42
	09/20/06	25.15		779.22
	12/19/06	25.26		779.11
	03/13/07	24.41		779.96
MW-103	02/01/97	-		795.29
	05/01/97	-		791.83
	09/01/97	-		789.60
	12/01/97	-	803.74	787.78
	03/01/98	-		791.03
	06/01/98	-		789.13
	10/27/98	11.96		791.78
	02/08/99	10.24		793.50
	06/08/99	8.69		795.05
	09/13/99	9.79		793.95
	12/15/99	12.68		791.06
	03/13/00	9.63		794.07
	06/22/00	8.22		795.52
	09/27/00	7.76		795.98
	12/19/00	10.78		792.96
	03/01/01	9.15		794.59
	06/19/01	5.52		798.22
	09/24/01	9.80		793.94
	12/05/01	11.13		792.61
	03/19/02	4.96		798.78
	06/20/02	7.42		796.32

Table #4

GROUNDWATER ELEVATIONS
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-103 (continued)	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
MW-104	02/01/97	-		792.94
	05/01/97	-		789.91
	09/01/97	-		798.59
	12/01/97	-	807.28	795.70
	03/01/98	-		799.46
	06/01/98	-		796.60
	10/27/98	10.51		796.77
	02/08/99	9.04		798.24
	06/08/99	7.49		799.79
	09/13/99	10.28		797.00
	12/15/99	10.78		796.50
	03/13/00	9.51		797.77
	06/22/00	8.41		798.88
	09/27/00	8.61		798.67
	12/19/00	10.49		796.79
	03/01/01	8.44		798.84
	06/19/01	7.51		799.71
	09/24/01	10.39		796.89
	12/05/01	10.81		796.47
	03/19/02	7.82		799.46
	06/20/02	8.60		798.68
	09/18/02	12.05		795.23
	12/17/02	12.70		794.58
	03/24/03	12.60		794.68
	06/10/03	8.81		798.47
	09/10/03	11.17		796.11
	12/10/03	8.66		798.62
	03/23/04	7.44		799.84
	09/21/04	15.21		792.07
	03/29/05	11.09		796.19
	06/20/05	9.57		797.71
	09/21/05	18.95		788.33
	12/14/05	9.94		797.34
	03/21/06	8.53		798.75
	06/28/06	11.23		796.05
	09/20/06	12.81		794.47
	12/20/06	24.46		782.82
	03/13/07	12.11		795.17
MW-105	02/01/97	-		793.74
	05/01/97	-		800.60
	09/01/97	-		800.37
	12/01/97	-	803.96	799.03
	03/01/98	-		800.08
	06/01/98	-		800.50
	10/27/98	5.41		798.55
	02/08/99	6.46		797.50
	06/08/99	3.04		800.92
	09/13/99	4.60		799.36
	12/15/99	5.28		798.68
	03/13/00	4.97		798.99
	06/22/00	3.06		800.90
	09/27/00	3.38		800.58
	12/19/00	5.28		798.68
	03/01/01	7.24		796.72

Table #4

GROUNDWATER ELEVATIONS
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-105 (continued)	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
MW-106	02/01/97	-		794.75
	05/01/97	-		797.23
	09/01/97	-		796.91
	12/01/97	-	804.08	795.48
	03/01/98	-		797.37
	06/01/98	-		796.76
	10/27/98	8.12		795.96
	02/08/99	9.75		794.33
	06/08/99	6.72		797.36
	09/13/99	7.88		796.20
	12/15/99	8.71		795.37
	03/13/00	8.72		795.36
	06/22/00	6.87		797.21
	09/27/00	7.41		796.67
	12/19/00	8.55		795.53
	03/01/01	9.54		794.54
	06/19/01	6.30		797.78
	09/24/01	7.57		796.51
	12/05/01	8.72		795.36
	03/19/02	7.64		796.44
	06/20/02	7.21		796.87
	09/18/02	7.88		796.20
	12/17/02	10.49		793.59
	03/24/03	9.98		794.10
	06/10/03	7.54		796.54
	09/10/03	7.35	804.00 ***	796.65
	12/10/03	7.18		796.82
	03/23/04	7.54		796.46
	07/09/04	6.48	803.90 ****	797.42
	09/21/04	8.02		795.88
	03/29/05	8.26		795.64
	06/20/05	7.31		796.59
	09/21/05	7.85		796.05
	12/14/05	8.47		795.43
	03/21/06	7.41		796.49
	06/28/06	7.78	803.83 *****	796.05
	09/20/06	7.90		795.93
	12/19/06	8.39		795.44
	03/13/07	9.08		794.75
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

Table #4

GROUNDWATER ELEVATIONS
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
MW-107 (continued)	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
MW-108	02/01/97	-		798.36
	05/01/97	-		793.32
	09/01/97	-		790.53
	12/01/97	-	806.61	788.65
	03/01/98	-		795.59
	06/01/98	-		789.30
	10/27/98	6.98		799.63
	02/08/99	6.72		799.89
	06/08/99	5.80		800.81
	09/13/99	6.68		799.93
	12/15/99	6.87		799.74
	03/13/00	6.84		799.77
	06/22/00	6.28		800.33
	09/27/00	6.31		800.30
	12/19/00	11.42		797.59
	03/01/01	7.04		799.57
	06/19/01	5.87		800.74
	09/24/01	6.52		800.09
	12/05/01	7.70		798.91
	03/19/02	6.25		800.36
	06/20/02	6.43		800.18
	09/18/02	6.72		799.89
	12/17/02	7.78		798.83
	03/24/03	8.69		797.96
	06/10/03	7.00		799.61
	09/10/03	6.91		799.70
	12/10/03	5.18		801.43
	03/23/04	6.24		800.37
	07/09/04	6.12		800.49
	09/21/04	6.91		799.70
	03/29/05	6.64		799.97
	06/20/05	6.78		799.83
	09/21/05	6.66		799.95
	12/14/05	6.68		799.93
	03/21/06	6.71		799.90
	06/28/06	6.82		799.79
	09/20/06	6.75		799.86
	12/19/06	6.90		799.71
	03/13/07	6.75		799.86
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

Table #4

GROUNDWATER ELEVATIONS
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Date Measured	Depth To Water (feet)	Reference Elevation (To Top PVC) (feet)	Groundwater Elevation (feet)
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
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
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
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
PZ-05	07/19/05	37.39	810.88	773.49
	09/21/05	28.56		782.32
	12/19/06	27.98		782.90
	03/13/07	28.61		782.27
PZ-06	07/19/05	36.31	809.77	773.46
	09/21/05	29.79		779.98
	12/19/06	29.49		780.28
	03/13/07	29.93		779.84
PZ-07	07/19/05	32.03	804.48	772.45
	09/21/05	27.34		777.14
	12/19/06	29.37		775.11
	03/13/07	24.41		780.07
PZ-08	07/19/05	32.07	804.35	772.28
	09/21/05	24.47		779.88
	12/19/06	28.16		776.19
	03/13/07	21.90		782.45

* Casing for MW-107 was damaged. Groundwater elevation could not be determined.
** Reflects new elevation of MW-107 after repair to well casing.
*** Monitoring wells re-surveyed after casings were shortened.
**** New elevation after the PVC casing was shortened after the March 23, 2004 sampling event.
***** New elevation after the PVC casing was shortened after the March 21, 2006 sampling event.
******New elevation after PVC casing was shortened after the December 19, 2006 sampling event.

Note: Omnni Associates, Inc. collected water level readings from MW-109 to MW-113 on June 21, 2006 and 9/20/06 and from PZ-5 to PZ-8 on July 19, 2005 and September 21, 2005.

Table #5

GROUNDWATER GEOCHEMICAL PARAMETERS
N.W. Mauthe Supefund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
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	4.00	7.93	14.80	1278 us	1.40	119.00	12.00	0.00
	02/09/99	4.00	8.47	9.50	1278 us	2.10	146.00	16.00	0.20
	06/08/99	4.00	7.20	14.60	1234 us	1.00	85.00	11.20	1.00
	09/13/99	5.10	7.34	15.00	1254 us	1.90	(136.00)	9.60	0.00
	12/15/99	4.80	7.77	11.80	1199 us	1.50	(231.00)	4.80	0.00
	03/13/00	7.00	6.17	8.90	1278 us	1.30	59.00	7.60	0.00
	06/22/00	4.40	7.86	12.10	1240 us	1.50	59.00	7.60	0.00
	09/27/00	6.60	6.39	16.40	1140 us	1.90	(187.00)	9.60	0.00
	12/19/00	5.00	7.66	9.50	1171 us	1.85	(161.00)	11.20	0.00
	03/01/01	3.50	7.42	10.50	1084 us	1.41	(222.00)	9.20	0.00
	06/19/01	7.00	7.81	15.60	1980 us	1.10	(18.00)	8.40	0.00
	09/24/01	5.00	7.48	13.40	1712 us	0.90	(38.00)	6.60	0.00
	12/05/01	5.00	7.51	10.20	1244 us	1.10	(71.00)	9.60	0.00
	03/19/02	6.00	7.51	10.60	977 us	1.10	(210.00)	13.20	0.00
	06/20/02	6.00	7.40	15.00	1870 us	0.80	(88.00)	8.80	0.00
	09/18/02	5.00	7.18	14.80	1138 us	1.00	(99.00)	10.40	0.00
	12/17/02	4.00	7.34	10.30	1187 us	1.00	(103.00)	9.60	0.00
	03/24/03	4.00	7.30	10.30	1077 us	1.00	(310.00)	10.00	0.00
	06/10/03	6.00	7.21	14.90	1620 us	1.00	(110.00)	12.80	0.00
	09/10/03	4.00	7.09	14.60	1210 us	0.80	(111.00)	8.80	0.00
	03/24/04	4.50	7.30	7.40	1210 us	EM	6.00	NA	0.00
	03/29/05	4.50	7.20	6.30	1182 us	3.40	85.00	NA	0.00
	03/23/06	7.00	6.60	10.50	2470 us	2.65	191.00	NA	0.03
	03/27/07	4.0	7.4	9.0	1240 us	8.0	243	NA	0.04
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	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	5.00	7.42	16.70	1459 us	1.30	97.00	14.40	0.20
	02/09/99	3.90	8.08	11.20	1386 us	1.30	21.00	8.00	2.40
	06/08/99	5.50	7.23	14.80	1283 us	1.80	85.00	14.00	5.60
	09/13/99	5.20	7.12	16.30	1363 us	1.70	(143.00)	14.40	1.60
	12/15/99	5.10	7.25	10.30	1375 us	0.90	(288.00)	14.40	1.20
	03/13/00	5.00	7.06	8.80	1277 us	1.10	(33.00)	8.40	1.00
	06/22/00	4.80	8.58	14.60	1177 us	1.97	(120.00)	6.80	0.00
	09/27/00	6.00	7.60	18.10	1098 us	1.50	(178.00)	10.00	0.00
	12/19/00	4.00	7.67	8.30	1227 us	1.14	(267.00)	11.60	0.00
	03/01/01	5.00	7.51	11.10	1175 us	1.20	(311.00)	11.20	0.00
	06/19/01	6.00	7.93	14.80	1310 us	0.80	(24.00)	6.20	0.00
	09/24/01	6.00	7.37	13.10	1177 us	0.40	4.00	6.40	0.00
	12/05/01	5.00	7.30	10.40	1288 us	1.00	(163.00)	12.40	0.00
	03/19/02	6.00	7.44	10.90	1044 us	1.30	(280.00)	11.20	0.00
	06/20/02	6.00	7.51	14.20	1240 us	0.80	(90.00)	6.20	0.00
	09/18/02	5.00	7.31	15.60	1221 us	1.30	(104.00)	14.60	1.00
	12/17/03	3.00	7.28	10.60	1,155	1.10	(172.00)	12.40	0.40
	03/24/03	5.00	7.18	10.60	1131 us	0.80	(342.00)	11.20	0.00
	06/10/03	4.00	7.30	15.00	1133 us	0.80	(121.00)	8.80	0.00
	09/10/03	5.00	7.22	15.00	1240 us	1.00	(175.00)	11.60	0.80
	03/24/04	4.30	7.40	7.80	755 us	EM	(47.00)	NA	0.00
	03/29/05	4.00	7.10	7.80	1743 us	3.43	87.00	NA	0.00
	03/23/06	4.00	7.20	8.30	2560 us	4.00	227.00	NA	0.00
	03/27/07	3.0	7.3	10.3	1438 us	6.71	237	NA	0.03

Table #5

GROUNDWATER GEOCHEMICAL PARAMETERS
N.W. Mauthe Supefund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
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	4.00	7.27	16.00	1551 us	0.80	137.00	14.40	0.00
	02/09/99	2.60	8.07	10.00	1418 us	1.30	7.00	12.00	0.60
	06/08/99	4.50	7.54	16.70	1465 us	1.50	75.00	12.00	1.40
	09/13/99	3.60	7.18	17.60	1647 us	1.90	(137.00)	10.40	0.80
	12/15/99	3.30	7.52	11.70	1544 us	1.50	(281.00)	12.40	1.00
	03/13/00	4.00	7.14	8.90	1266 us	1.40	(19.00)	7.60	0.40
	06/22/00	3.00	8.22	14.90	1546 us	1.63	36.00	7.30	0.00
	09/27/00	5.00	5.43	17.40	1711 us	1.30	(41.00)	12.40	0.00
	12/19/00	3.00	7.55	8.90	1628 us	3.23	(305.00)	15.20	1.60
	03/01/01	4.00	7.43	10.90	1435 us	2.10	(381.00)	16.00	0.80
	06/19/01	5.00	8.18	14.80	1380 us	1.40	(64.00)	6.00	0.00
	09/24/01	5.00	7.22	12.60	1160 us	1.00	(49.00)	8.00	0.00
	12/05/01	3.00	7.28	9.90	1544 us	2.00	(280.00)	12.80	1.20
	03/19/02	5.00	7.58	10.30	1284 us	1.80	(318.00)	12.20	0.40
	06/20/02	5.00	8.00	14.60	1280 us	1.00	(180.00)	12.40	0.00
	09/18/02	5.00	7.20	16.30	1399 us	1.60	(152.00)	13.60	0.40
	12/17/02	3.00	7.18	10.00	1234 US	2.00	(220.00)	8.80	1.00
	03/24/03	3.00	7.22	10.60	1294 us	1.40	(330.00)	12.40	0.20
	06/10/03	5.00	7.76	14.80	1148 us	1.20	(174.00)	11.20	0.00
	09/10/03	5.00	7.18	15.40	1317 us	1.20	(170.00)	10.40	0.60
	03/24/04	3.70	7.30	8.40	1516 us	EM	(32.00)	NA	0.00
	03/29/05	3.00	7.00	8.20	2240 us	3.81	85.00	NA	0.00
	03/23/06	4.00	7.00	7.50	1952 us	4.40	236.00	NA	0.00
	03/28/07	3.0	7.3	9.0	1420 us	3.28	213	NA	0.01
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	9.00	7.13	14.10	2.27 ms	0.50	116.00	12.00	0.00
	02/09/99	7.00	8.11	12.70	2.11 ms	1.10	165.00	8.80	0.20
	06/08/99	6.00	7.05	15.00	2.17 ms	0.70	161.00	8.00	0.20
	09/13/99	5.90	7.25	14.90	2.12 ms	0.90	(125.00)	13.60	0.00
	12/15/99	6.00	8.71	12.70	2.06 ms	1.00	(262.00)	8.80	0.00
	03/13/00	7.00	6.34	11.60	1939 us	1.10	44.00	8.00	0.00
	06/22/00	5.00	7.73	15.20	2.25 ms	0.96	50.00	8.00	0.00
	09/27/00	8.50	6.80	15.50	2.18 ms	0.70	3.00	12.80	0.00
	12/19/00	10.50	7.12	11.90	2.18 ms	1.48	(233.00)	14.40	0.00
	03/01/01	8.00	7.41	11.00	2.31 ms	1.32	(283.00)	12.20	0.00
	06/19/01	9.00	8.04	13.60	1265 us	1.00	10.00	7.20	0.00
	09/24/01	8.00	7.79	13.40	1304 us	1.00	(11.00)	11.20	0.00
	12/05/01	9.00	7.40	11.20	2240 us	1.20	(304.00)	8.40	0.00
	03/19/02	9.00	7.36	10.80	1984 us	1.40	(210.00)	12.20	0.00
	06/20/02	10.00	7.93	13.80	1190 us	0.80	(30.00)	14.00	0.00
	09/18/02	10.00	7.24	15.00	2248 us	0.80	(113.00)	8.80	0.00
	12/17/02	8.00	7.27	11.40	1988 us	1.60	(334.00)	8.40	0.00
	03/24/03	9.00	7.45	11.10	1033 us	0.60	(190.00)	11.20	0.00
	06/10/03	10.00	7.66	14.00	1121 us	1.00	(61.00)	13.20	0.00
	09/10/03	8.00	7.30	14.80	2104 us	0.80	(124.00)	7.20	0.00
	03/24/04	6.70	6.90	10.10	3160 us	EM	(69.00)	NA	0.00
	03/29/05	6.00	6.60	12.12	4730 us	1.27	83.00	NA	0.00
	03/23/06	7.00	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

Table #5

GROUNDWATER GEOCHEMICAL PARAMETERS
N.W. Mauthe Supefund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-102	02/20/97	NR	8.00	10.50	700 us	NA	NA	NA	NA
	05/27/97	NR	7.47	10.50	NA	NA	NA	NA	NA
	09/18/97	NR	6.99	13.00	810 us	NA	NA	NA	NA
	12/12/97	NR	7.23	8.50	690 us	NA	NA	NA	NA
	03/25/98	NR	7.68	10.20	1145 us	NA	NA	NA	NA
	06/10/98	NR	6.97	10.30	1046 us	NA	NA	NA	NA
	10/27/98	2.00	8.07	13.00	1197 us	1.50	103.00	17.60	0.40
	02/09/99	0.50	7.48	11.00	1164 us	1.00	0.33	14.40	0.00
	06/08/99	0.50	7.89	18.60	1226 us	1.00	151.00	4.80	0.80
	09/13/99	0.50	7.84	13.30	1208 us	1.20	(246.00)	10.00	1.20
	12/15/99	0.50	7.78	9.00	1152 us	1.60	(288.00)	10.80	1.00
	03/13/00	0.50	6.74	9.70	1096 us	1.20	(260.00)	6.80	0.00
	06/22/00	0.50	8.01	12.30	1233 us	0.53	(13.00)	6.00	0.00
	09/27/00	0.50	8.25	12.50	1182 us	1.90	(241.00)	9.20	0.00
	12/19/00	0.50	7.59	8.70	1126 us	1.27	(454.00)	11.60	0.00
	03/01/01	0.50	7.30	10.90	1321 us	1.02	(521.00)	9.20	0.00
	06/19/01	0.50	8.64	13.20	1944 us	0.60	35.00	6.40	0.00
	09/24/01	0.50	7.63	13.40	1622 us	0.80	18.00	7.20	0.00
	12/05/01	0.50	7.59	9.40	1233 us	0.80	(110.00)	12.40	0.00
	03/19/02	0.50	7.41	10.80	1143 us	0.90	(503.00)	9.20	0.50
	06/20/02	0.50	8.18	13.80	1720 us	0.40	4.00	9.60	0.00
	09/18/02	0.50	7.04	13.50	1318 us	1.00	(212.00)	10.80	1.00
	12/17/02	0.50	7.55	10.00	1186 us	0.60	(94.00)	11.20	0.00
	03/24/03	0.50	7.38	10.40	972 us	0.40	(621.00)	8.40	0.00
	06/10/03	0.50	8.01	13.80	1530 us	0.40	(18.00)	8.60	0.00
	09/10/03	0.50	7.10	14.00	1313 us	0.80	(211.00)	8.00	0.80
	03/24/04	2.70	7.20	12.80	1112 us	EM	(26.00)	NA	0.00
	03/29/05	3.00	7.10	12.70	1199 us	2.71	85.00	NA	0.00
	03/23/06	2.00	7.50	9.20	1234 us	5.06	283.00	NA	0.00
	03/27/07	2.0	7.2	12.5	1093 us	1.73	86	NA	0.29
MW-103	02/20/97	NR	6.30	6.00	700 us	NA	NA	NA	NA
	05/27/97	NR	7.67	11.60	NA	NA	NA	NA	NA
	09/18/97	NR	7.21	10.50	1030 us	NA	NA	NA	NA
	12/12/97	NR	7.43	9.00	970 us	NA	NA	NA	NA
	03/25/98	NR	7.82	9.40	1441 us	NA	NA	NA	NA
	06/10/98	NR	6.24	9.90	1356 us	NA	NA	NA	NA
	10/27/98	8.00	7.66	12.70	1566 us	0.70	147.00	12.00	0.20
	02/09/99	7.80	7.48	9.90	1443 us	1.40	53.00	11.20	0.80
	06/08/99	9.50	7.42	13.90	1350 us	0.70	109.00	7.20	0.00
	09/13/99	4.10	7.41	12.90	985 us	1.60	(165.00)	12.00	0.00
	12/15/99	4.60	7.82	10.60	2.58 ms	1.40	(294.00)	10.80	0.00
	03/13/00	4.00	6.57	9.40	1292 us	1.00	76.00	8.40	0.40
	06/22/00	4.00	8.43	11.50	1354 us	0.99	(90.00)	6.00	0.00
	09/27/00	11.00	7.48	13.70	1131 us	1.40	(302.00)	7.60	0.00
	12/19/00	9.00	7.90	6.60	1063 us	1.56	(344.00)	9.20	0.40
	03/01/01	8.50	7.68	11.20	1160 us	1.88	(374.00)	8.00	0.60
	06/19/01	13.00	7.81	14.10	1848 us	1.10	(28.00)	7.40	0.00
	09/24/01	2.00	7.32	12.70	1743 us	1.00	(47.00)	12.00	0.00
	12/05/01	11.00	7.18	9.00	1121 us	1.40	(291.00)	10.80	0.60
	03/19/02	11.00	7.60	11.40	1050 us	1.50	(311.00)	10.00	0.40
	06/20/02	12.00	7.47	14.40	1830 us	0.80	(62.00)	10.80	0.00
	09/18/02	10.00	7.18	13.00	748 us	1.40	(170.00)	11.20	0.00
	12/17/02	8.00	7.22	9.60	1134 us	1.20	(284.00)	10.00	0.40
	03/24/03	11.00	7.54	11.00	1262 us	1.20	(320.00)	10.00	0.60
	06/10/03	10.00	7.13	14.10	1644 us	0.60	(80.00)	10.00	0.20
	09/10/03	10.00	7.14	13.20	920 us	1.00	(165.00)	10.40	0.00
	12/10/03	10.00	7.28	10.40	1210 us	0.80	(310.00)	7.80	0.20
	03/24/04	8.60	7.30	10.20	656 us	EM	(126.00)	NA	0.00
	07/09/04	5.00	7.20	14.00	996 us	16.30	283.00	NA	0.00
	09/21/04	1.50	7.10	20.10	1004 us	EM	(19.00)	NA	0.00
	03/29/05	12.00	7.00	10.20	1164 us	1.16	84.00	NA	0.00
	06/21/05	7.00	7.10	13.30	1253 us	1.46	142.00	NA	0.00
	09/21/05	10.00	7.30	13.50	1233 us	3.40	225.00	NA	0.00
	12/14/05	7.00	7.20	9.90	1295 us	1.53	NA	NA	0.00

Table #5

GROUNDWATER GEOCHEMICAL PARAMETERS
N.W. Mauthe Supefund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-103 (cont.)	03.23/06	7.00	7.00	11.50	1140 us	230.00	252.00	NA	0.00
	06/28/06	5.00	7.10	11.80	746 us	2.75	232.00	NA	0.00
	12/20/06	8.00	7.40	10.80	1207 us	2.89	241.00	NA	0.23
	03/28/07	8.0	7.2	10.8	1075 us	3.09	238.0	NA	0.05
MW-104	02/20/97	NR	7.43	8.00	1000 us	NA	NA	NA	NA
	05/27/97	NR	8.00	12.00	NA	NA	NA	NA	NA
	09/18/97	NR	7.13	10.50	1030 us	NA	NA	NA	NA
	12/12/97	NR	7.10	9.60	1000 us	NA	NA	NA	NA
	03/25/98	NR	7.94	8.30	1378 us	NA	NA	NA	NA
	06/10/98	NR	6.53	9.70	1101 us	NA	NA	NA	NA
	10/27/98	8.00	7.84	13.20	1272 us	0.90	103.00	16.40	0.40
	02/09/99	9.50	7.66	10.10	1126 us	1.50	193.00	11.20	0.00
	06/08/99	13.00	6.80	15.60	1259 us	1.60	103.00	6.40	0.00
	09/13/99	13.80	7.08	13.90	1334 us	1.80	(146.00)	10.80	0.00
	12/15/99	11.20	7.68	10.80	1172 us	2.00	(232.00)	11.20	0.00
	03/13/00	16.50	6.91	10.20	1121 us	0.40	69.00	11.20	0.60
	06/22/00	11.00	8.65	11.60	1137 us	0.71	(211.00)	6.80	0.00
	09/27/00	8.00	7.24	12.90	1130 us	1.70	(123.00)	13.20	0.00
	12/19/00	8.00	7.75	8.20	1144 us	1.05	(240.00)	12.40	0.00
	03/01/01	9.50	7.72	10.60	1230 us	0.90	(220.00)	12.40	0.20
	06/19/01	13.00	7.91	12.90	1581 us	0.80	(110.00)	6.80	0.00
	09/24/01	8.00	7.18	12.40	1580 us	0.80	(99.00)	9.60	0.20
	12/05/01	7.00	7.22	9.90	1300 us	1.00	(311.00)	9.60	0.00
	03/19/02	10.00	7.70	10.60	1110 us	0.70	(210.00)	11.60	0.20
	06/20/02	10.00	7.53	13.00	1420 us	0.80	(174.00)	12.40	0.20
	09/18/02	9.00	7.03	14.60	1275 us	1.60	(148.00)	12.40	0.00
	12/17/02	8.00	7.31	10.00	1264 us	0.80	(294.00)	8.80	0.00
	03/24/03	8.00	7.61	10.40	1031 us	0.80	(240.00)	10.80	0.00
	06/10/03	10.00	7.40	15.00	1374 us	0.60	(91.00)	11.20	0.40
	09/10/03	9.00	7.08	14.20	1144 us	1.20	(151.00)	8.80	0.00
	12/01/03	8.00	7.35	10.10	1177 us	0.80	(280.00)	8.80	0.00
	03/24/04	13.60	7.30	9.90	1496 us	EM	(91.00)	NA	0.00
	07/09/04	5.00	7.00	12.00	1648 us	2.90	EM	NA	0.00
	09/21/04	1.00	7.00	13.10	1648 us	EM	1.00	NA	0.00
	03/29/05	6.00	7.00	10.20	1939 us	2.69	86.00	NA	0.00
	06/21/05	7.00	7.10	12.50	1999 us	3.50	125.00	NA	0.00
	09/21/05	7.00	7.10	13.80	1926 us	2.78	213.00	NA	0.00
	12/14/05	7.00	6.90	10.90	2320 us	2.11	253.00	NA	NA **
	03/23/06	10.00	6.90	10.60	2250 us	1.73	209.00	NA	0.00
	06/28/06	5.00	6.80	11.30	2290 us	1.40	215.00	NA	0.26
	12/20/06	8.00	7.10	11.90	2120 us	2.08	248.00	NA	0.00
	03/28/07	8.0	6.9	10.1	2450 us	3.80	226.0	NA	0.07
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	5.00	7.57	16.80	2.87 ms	0.10	121.00	13.60	0.00
	02/09/99	5.90	7.34	10.60	2.76 ms	0.90	281.00	16.80	1.80
	06/08/99	5.00	7.32	17.80	2.87 ms	0.70	90.00	9.60	0.20
	09/13/99	3.50	7.00	17.20	2.74 ms	1.70	(182.00)	13.20	1.40
	1215/99	3.60	7.36	13.00	2.62 ms	1.60	(255.00)	8.80	1.20
	03/13/00	4.50	6.58	8.40	2430 us	1.30	23.00	9.60	0.80
	06/22/00	3.20	8.44	14.30	2.71 ms	0.88	(304.00)	6.40	0.00
	09/27/00	6.00	6.62	17.90	2.53 ms	1.10	(198.00)	12.80	0.00
	12/19/00	6.00	7.42	9.60	2.32 ms	2.27	(167.00)	12.40	0.00
	03/01/01	5.00	7.24	10.80	2.45 ms	1.89	(184.00)	11.60	0.00
	06/19/01	7.00	8.19	12.80	1877 us	0.60	(200.00)	6.80	0.00
	09/24/01	6.00	7.41	13.80	1809 us	0.80	(183.00)	7.20	0.00
	12/05/01	6.00	7.34	10.00	2148 us	1.80	(188.00)	11.20	0.20
	03/19/02	5.00	6.94	10.20	1984 us	1.80	(169.00)	9.60	0.00
	06/20/02	6.00	8.04	13.00	1400 us	1.00	(310.00)	10.80	0.00
	09/18/02	6.00	7.21	17.20	2800 us	1.60	(183.00)	10.80	1.60
	12/17/02	5.00	7.08	10.40	2008 us	1.40	(194.00)	13.20	0.40

Table #5

GROUNDWATER GEOCHEMICAL PARAMETERS
N.W. Mauthe Supefund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-105 (cont.)	03/24/03	5.00	7.04	10.60	1477 us	1.40	(99.00)	14.00	0.00
	06/10/03	6.00	7.81	14.80	1344 us	1.20	(280.00)	8.60	0.00
	09/10/03	6.00	7.30	16.40	2626 us	1.20	(177.00)	10.00	1.20
	03/24/04	4.90	6.80	5.90	2220 us	EM	(78.00)	NA	0.00
	03/29/05	4.00	6.80	8.90	2300 us	2.12	87.00	NA	0.00
	03/23/06	4.00	6.90	8.60	2170 us	3.54	256.00	NA	0.22
	03/27/07	4.0	6.8	9.2	2180 us	3.37	296	NA	0.08
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	4.00	7.31	16.80	1824 us	1.20	138.00	12.80	0.00
	02/09/99	2.50	7.33	10.20	1605 us	1.10	197.00	20.80	0.00
	06/08/99	3.50	7.15	15.40	1332 us	0.70	17.00	6.40	0.20
	09/13/99	2.30	7.02	17.40	1357 us	1.00	(168.00)	11.60	0.00
	12/15/99	2.00	8.41	12.10	1445 us	0.80	(266.00)	10.00	0.00
	03/13/00	2.50	6.92	9.10	1513 us	1.60	18.00	10.40	0.00
	06/22/00	1.50	8.18	14.50	1736 us	2.02	38.00	7.20	0.00
	09/27/00	6.00	6.84	19.10	1715 us	1.60	(8.00)	12.00	0.00
	12/19/00	4.00	7.48	10.70	1694 us	1.43	(218.00)	10.80	0.00
	03/01/01	4.00	7.33	10.80	1722 us	1.50	(210.00)	9.20	0.00
	06/19/01	4.00	8.28	13.00	1361 us	1.10	(210.00)	6.40	0.00
	09/24/01	6.00	7.66	14.00	1220 us	0.80	(104.00)	11.20	0.00
	12/05/01	4.00	7.60	10.40	1702 us	0.90	(217.00)	12.80	0.00
	03/19/02	5.00	7.13	10.40	1630 us	1.70	(235.00)	9.20	0.00
	06/20/02	5.00	8.08	12.80	1288 us	1.20	(240.00)	8.80	0.00
	09/18/02	5.00	7.30	17.80	1438 us	1.00	(141.00)	8.80	0.00
	12/17/02	3.00	7.15	10.20	1788 us	0.80	(220.00)	11.20	0.00
	03/24/03	3.00	7.22	10.80	1250 us	1.10	(193.00)	10.00	0.00
	06/10/03	5.00	7.84	13.80	1310 us	1.20	(230.00)	10.20	0.00
	09/10/03	5.00	7.24	16.60	1303 us	0.80	(140.00)	12.00	0.00
	03/24/04	1.80	7.10	8.00	1761 us	EM	(57.00)	NA	0.00
	03/29/05	2.50	6.90	9.00	1995 us	2.24	85.00	NA	0.00
	03/23/06	4.00	7.00	9.40	2160 us	4.14	249.00	NA	0.00
	03/27/07	2.00	7.0	8.5	1887 us	5.04	249	NA	0.00
MW-107	02/20/97	NR	7.46	9.00	650 us	NA	NA	NA	NA
	05/27/97	NR	7.12	10.80	NA	NA	NA	NA	NA
	09/18/97	NR	7.07	12.50	700 us	NA	NA	NA	NA
	12/12/97	NR	7.08	10.50	730 us	NA	NA	NA	NA
	03/25/98	NR	7.87	10.20	1081 us	NA	NA	NA	NA
	06/10/98	NR	7.17	10.60	1042 us	NA	NA	NA	NA
	10/27/98	10.00	7.41	12.10	1179 us	1.10	62.00	20.00	10.00
	02/09/99	9.00	8.10	12.00	1189 us	1.30	263.00	7.20	0.40
	06/08/99	9.00	7.48	15.60	1406 us	2.20	163.00	4.80	0.40
	09/13/99	8.00	7.30	12.90	1301 us	2.60	(114.00)	14.00	0.60
	12/15/99	10.00	7.63	11.30	1419 us	2.80	(42.00)	12.40	1.00
	03/13/00	14.50	5.76	10.90	1389 us	1.20	58.00	8.40	0.60
	06/22/00	10.00	8.75	12.40	1574 us	0.62	(120.00)	6.40	0.00
	09/27/00	10.00	7.42	14.20	1505 us	1.60	(114.00)	9.20	0.00
	12/19/00	13.00	7.69	9.50	1524 us	1.21	(38.00)	10.40	0.00
	03/01/01	16.00	7.81	9.90	1704 us	1.31	(93.00)	12.40	0.20
	06/19/01	15.00	7.64	13.40	1221 us	0.80	(80.00)	6.00	0.20
	09/24/01	9.00	7.04	12.40	977 us	0.60	(77.00)	12.00	0.40
	12/05/01	13.00	7.15	9.20	1611 us	0.80	(95.00)	8.40	0.00
	03/19/02	12.00	7.64	10.00	1730 us	1.30	8.00	9.60	0.20
	06/20/02	10.00	7.48	13.60	1304 us	0.60	(110.00)	9.60	0.40
	09/10/02	10.00	7.52	13.10	1403 us	2.00	(104.00)	12.40	0.40
	12/17/02	10.00	7.22	10.40	1593 us	0.80	(110.00)	7.80	0.00
	03/24/03	10.00	7.30	10.30	1362 us	1.00	(48.00)	10.80	0.00
	06/10/03	11.00	7.20	14.00	1277 us	0.80	(200.00)	9.20	1.00
	09/10/03	10.00	7.46	13.30	1121 us	1.30	(99.00)	8.00	0.20
	12/01/03	10.00	7.41	9.80	1360 us	1.00	(98.00)	8.40	0.00
	03/24/04	9.00	7.30	11.10	1704 us	EM	(109.00)	NA	0.00
	07/09/04	6.00	7.30	13.20	1704 us	4.59	166.00	NA	0.00

Table #5

GROUNDWATER GEOCHEMICAL PARAMETERS

N.W. Mauthe Supefund Site - Appleton, Wisconsin

MCO No. M0050-930746.26

Well Name	Sample Date	Purge* Volume (gallons)	pH (units)	Temperature (degree C)	Conductivity (units as shown)	Dissolved Oxygen (ppm)	Redox (mV)	Alkalinity (gpg)	Ferrous Iron (mg/l)
MW-107 (cont.)	09/21/04	3.00	7.10	14.30	1649 us	EM	7.00	NA	0.00
	03/29/05	9.00	7.20	11.50	1749 us	2.83	85.00	NA	0.00
	06/21/05	8.00	7.30	12.70	2010 us	1.85	119.00	NA	0.00
	09/21/05	8.00	7.50	15.20	1594 us	2.92	221.00	NA	0.00
	12/14/05	8.00	7.40	12.30	1708 us	1.80	250.00	NA	0.00
	03/27/06	10.00	7.30	11.90	1726 us	2.65	269.00	NA	0.00
	06/28/06	7.00	7.20	13.40	1696 us	3.76	212.00	NA	0.04
	12/20/06	8.00	7.20	11.80	1655 us	3.83	234.00	NA	0.08
	03/28/07	8.0	7.3	10.4	1599 us	7.14	240	NA	0.01
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	10.00	7.95	14.30	1696 us	1.40	116.00	12.80	0.20
	02/09/99	8.10	7.51	11.00	1810 us	1.10	(65.00)	10.40	0.40
	06/08/99	12.50	7.60	15.00	1706 us	0.90	173.00	7.20	0.60
	09/13/99	13.50	7.29	13.60	1849 us	1.20	(180.00)	8.00	0.00
	12/15/99	12.80	7.68	11.80	1885 us	1.00	(286.00)	8.40	0.00
	03/13/00	14.00	6.25	10.20	1642 us	1.70	(4.00)	9.20	0.20
	06/22/00	11.50	7.62	14.10	1989 us	1.01	69.00	6.40	0.00
	09/27/00	12.00	7.43	13.10	1983 us	0.40	(73.00)	10.40	0.00
	12/19/00	10.50	7.60	10.10	2.01 ms	2.18	(184.00)	10.80	0.00
	03/01/01	9.00	7.49	11.20	2.38 ms	2.20	(211.00)	11.60	0.00
	06/19/01	8.00	8.20	13.80	1634 us	0.80	(90.00)	7.00	0.00
	09/24/01	9.00	7.59	14.20	1512 us	0.80	(83.00)	9.60	0.00
	12/05/01	10.00	7.49	10.50	2111 us	1.80	(199.00)	9.60	0.00
	03/19/02	12.00	7.30	10.80	2120 us	2.10	(170.00)	11.60	0.00
	06/20/02	12.00	7.92	14.00	1424 us	0.80	(120.00)	12.40	0.00
	09/18/02	12.00	7.13	13.40	1744 us	1.00	(132.00)	11.20	0.00
	12/17/02	10.00	7.36	10.40	1986 us	1.60	(174.00)	8.40	0.00
	03/24/03	10.00	7.31	10.40	2032 us	1.60	(190.00)	8.40	0.00
	06/10/03	11.00	7.64	14.60	1324 us	0.80	(144.00)	9.20	0.00
	09/10/03	11.00	7.15	13.30	1622 us	0.80	(124.00)	10.40	0.00
	03/24/04	10.00	7.70	12.30	1927 us	EM	(156.00)	NA	0.00
	03/29/05	9.00	7.30	10.80	2090 us	2.29	83.00	NA	0.00
	03/27/06	9.00	7.30	9.30	2880 us	1.72	2.69	NA	0.04
	03/27/07	9.0	7.2	12.9	3190 us	5.05	185	NA	0.04
MW-109	06/21/06	2.00	6.42	14.80	1497 us	-	-	-	-
	09/20/06	2.00	6.66	14.60	1429 us	-	-	-	-
	12/20/06	8.00	7.10	11.00	2120 us	2.39	213.00	NA	0.16
	03/29/07	10	6.9	9.6	2050 us	7.71	284	NA	***
MW-110	06/21/06	2.00	6.91	12.70	1178 us	-	-	-	-
	09/20/06	2.00	7.00	14.40	1248 us	-	-	-	-
	12/20/06	10.00	7.20	10.60	1757 us	2.07	234.00	NA	0.00
	03/29/07	10	7.2	8.1	1806 us	7.03	255	NA	0.03
MW-111	06/21/06	2.00	7.01	12.40	1311 us	-	-	-	-
	09/20/06	1.75	6.99	14.00	1164 us	-	-	-	-
	12/20/06	6.00	7.20	11.00	1478 us	3.95	243.00	NA	0.01
	03/29/07	10	7.4	9.2	1908 us	9.29	209	NA	0.01
MW-112	06/21/06	2.00	7.21	12.40	1338 us	-	-	-	-
	09/20/06	2.00	7.28	14.60	1238 us	-	-	-	-
	12/20/06	8.00	7.50	10.70	1817 us	1.94	729.00	NA	0.00
	03/28/07	10	7.5	9.5	2050 us	7.93	228	NA	0.00
MW-113	06/21/06	2.00	6.91	12.90	1020 us	-	-	-	-
	09/20/06	2.00	7.11	14.60	900 us	-	-	-	-
	12/20/06	8.00	7.20	10.60	1757 us	2.07	234.00	NA	0.00
	03/29/07	10	7.3	8.0	1508 us	9.52	235	NA	***

ppm = parts per million
us = microsiemens / centimet
mV = millivolts
gpg = grains per gallon
EM - Equipment malfunction.

ms = millisiemens / centimeter
NA = not analyzed
NR = not recorded
( ) = Indicates a negative value.

* = Each monitoring well was purged dry twice prior to sampling
The second purging was conducted approximately 3-hrs after initial purging. The volume of purge collected represents the total of the two well purges. Purge volumes prior to 10/27/98 were not av
** = Not analyzed due to poor water clarity from recent piezometer installation nearby.
*** = Too cloudy for testing.

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

Table #6

GROUNDWATER ANALYTICAL RESULTS / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

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)
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	<0.05	23
	06/08/99	<.31	<.62	NA	1.8*	<.0032	290.0	<0.05	<12
	09/13/99	<.31	2.00	NA	3.2	<.0032	240.0	<.05	<12
	12/15/99	<.31	.72 *	NA	NA	NA	2.8	NA	NA
	03/13/00	<.31	.79 *	NA	NA	NA	7.8	NA	NA
	06/22/00	<.31	<.62	NA	NA	NA	<.42	NA	NA
	09/27/00	2.70	1.1*	NA	NA	NA	17.0	NA	NA
	12/19/00	.24*	.91*	NA	NA	NA	8.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	06/19/01	<.17	.55 *	NA	NA	NA	48.0	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	52	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	<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	<0.43	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
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
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

Table #6

GROUNDWATER ANALYTICAL RESULTS / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

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)
W-15 (continued)	12/15/99	<.31	5.00	NA	NA	NA	90.0	NA	NA
	03/13/00	<.31	7.00	NA	NA	NA	130.0	NA	NA
	06/22/00	<.31	1.80	NA	NA	NA	11.0	NA	NA
	09/27/00	<.23	4.20	NA	NA	NA	24.0	NA	NA
	12/19/00	<.23	1.4*	NA	NA	NA	930.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	06/19/01	<.17	<.34	NA	NA	NA	<2	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	290.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	2.5	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	22.0	NA	NA
	06/20/02	.36*	.47*	NA	NA	NA	3.1	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	110.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	31.0	NA	NA
	03/24/03	<0.17	0.47*	NA	NA	NA	27.0	NA	NA
	03/24/04	NA	1.80	3.8	NA	NA	1.1*	NA	NA
	03/29/05	NA	0.98	<2.7	NA	NA	24.0	NA	NA
	03/23/06	NA	1.60	<5.0	NA	NA	8.0	NA	NA
	03/28/07	NA	<1.9	NA	NA	NA	13	NA	NA
MW-101	02/20/97	NA	36	NA	41	NA	820.0	NA	49
	05/27/97	<.2	10	NA	11	NA	170.0	<.03	18
	09/18/97	.06**	11.9	NA	10.7**	1**	145.0	<.05	18.2
	12/12/97	.06*	12.8	NA	<9.7	<.8	176.0	.05*	20.7
	03/25/98	.04*	20.9	NA	21.6**	<1.7	239.0	.007*	32.7
	06/10/98	.27*	48.2	NA	46.8	<1.7	604.0	.044*	75.9
	10/27/98	<.16	3.20	NA	4.2*	<.0032	24.0	<.05	54
	02/09/99	<.31	<.62	NA	<.60	<.0032	1900.0	<.05	14
	06/08/99	<.31	1.80	NA	8.2	<.0032	380.0	<.05	39
	09/13/99	<.31	2.90	NA	5.1	<.0032	31.0	<.05	<12
	12/15/99	<.31	2.50	NA	NA	NA	9.1	NA	NA
	03/13/00	<.31	2.30	NA	NA	NA	100.0	NA	NA
	06/22/00	<.31	1.4 *	NA	NA	NA	<4.2	NA	NA
	09/27/00	<.23	19.00	NA	NA	NA	37.0	NA	NA
	12/19/00	<.23	7.20	NA	NA	NA	18.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	13.0	NA	NA
	06/19/01	<.17	8.50	NA	NA	NA	9.1	NA	NA
	09/24/01	<.17	.55 *	NA	NA	NA	<2.0	NA	NA
	12/05/01	<.23	.90*	NA	NA	NA	<2.0	NA	NA
	03/19/02	<.23	.66*	NA	NA	NA	<2.0	NA	NA
	06/20/02	<.23	.58*	NA	NA	NA	2.2	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	13.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	33.0	NA	NA
	03/24/03	<.17	.50*	NA	NA	NA	8.3	NA	NA
	03/24/04	NA	0.79*	<3.6	NA	NA	<1.0	NA	NA
	03/29/05	NA	1.10	<2.7	NA	NA	16.0	NA	NA
	03/23/06	NA	0.55	<5.0	NA	NA	45.0	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	14.0	NA	NA
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

Table #6

GROUNDWATER ANALYTICAL RESULTS / Selected Metals

N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

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)
MW-102 (continued)	03/19/02	<.23	<.57	NA	NA	NA	87.0	NA	NA
	06/20/02	<.17	1.80	NA	NA	NA	44.0	NA	NA
	09/18/02	<.23	1.4*	NA	NA	NA	<2.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	38.0	NA	NA
	03/24/03	0.21*	<0.43	NA	NA	NA	3.5	NA	NA
	03/24/04	NA	<0.45	<3.6	NA	NA	65.0	NA	NA
	03/29/05	NA	0.71	<2.7	NA	NA	190.0	NA	NA
	03/23/06	NA	<0.40	<5.0	NA	NA	100.0	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	230	NA	NA
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
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

Table #6

GROUNDWATER ANALYTICAL RESULTS / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

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)
MW-104 (continued)	12/05/02	<.23	390.0	NA	NA	NA	2.2	NA	NA
	03/19/02	<.23	430.0	NA	NA	NA	<2.0	NA	NA
	06/20/02	<.23	490.0	NA	NA	NA	14.0	NA	NA
	09/18/02	<.23	410.0	NA	NA	NA	27.0	NA	NA
	12/17/02	<.23	240.0	NA	NA	NA	8.9	NA	NA
	03/24/03	<.17	180.0	NA	NA	NA	4.2	NA	NA
	06/10/03	NA	420.0	NA	NA	NA	NA	NA	NA
	09/10/03	NA	1200.0	NA	NA	NA	NA	NA	NA
	12/10/03	NA	790.0	NA	NA	NA	NA	NA	NA
	12/15/03	NA	NA	700.0	NA	NA	NA	NA	NA
	03/24/04	NA	550.0	580.0	NA	NA	<1.0	NA	NA
	07/09/04	NA	370.0	380.0	NA	NA	NA	NA	NA
	09/22/04	NA	87.0	33.0	NA	NA	NA	NA	NA
	12/09/04	NA	56.0	57.0	NA	NA	NA	NA	NA
	03/29/05	NA	260.0	260.0	NA	NA	1.0	NA	NA
	06/22/05	NA	280.0	230.0	NA	NA	NA	NA	NA
	09/21/05	NA	17.0	25.0	NA	NA	NA	NA	NA
	12/15/05	NA	95.0	110.0	NA	NA	NA	NA	NA
	03/23/06	NA	66.0	200.0	NA	NA	6.3	NA	NA
	06/28/06	NA	76.0	58.0	NA	NA	NA	NA	NA
	09/20/06	NA	2.8	<6.8	NA	NA	NA	NA	NA
	12/20/06	NA	8.4	NA	NA	NA	NA	NA	NA
	03/28/07	NA	160	NA	NA	NA	130	NA	NA
MW-105	02/20/97	NA	21	NA	22	NA	1100.0	NA	23
	05/27/97	<.2	5	NA	<10	NA	120.0	<.2	12
	09/18/97	.14**	29.5	NA	28.3	1**	532.0	<.03	46
	12/12/97	.36*	15.8	NA	12.5**	<.8	297.0	.03*	27.1
	03/25/98	.04*	30.8	NA	27.6	<1.7	518.0	.064*	44
	06/10/98	.048*	13.7	NA	15.3**	<1.7	217.0	.016*	22.1
	10/27/98	.29*	8.80	NA	8.20	<.0032	150.0	<.05	70
	02/09/99	<.31	1.3*	NA	4.30	<.0032	2000.0	<.05	19
	06/08/99	<.31	1*	NA	18.00	<.0032	1300.0	<.05	66
	09/13/99	<.31	.64*	NA	24.00	<.0032	1700.0	<.05	30
	12/15/99	<.31	<.62	NA	NA	NA	860.0	NA	NA
	03/13/00	<.31	4.80	NA	NA	NA	660.0	NA	NA
	06/22/00	<.31	1.0 *	NA	NA	NA	600.0	NA	NA
	09/27/00	<.23	1.2*	NA	NA	NA	700.0	NA	NA
	12/19/00	<.23	<.4	NA	NA	NA	230.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	43.0	NA	NA
	06/19/01	<.17	.75*	NA	NA	NA	230.0	NA	NA
	09/24/01	<.17	.73*	NA	NA	NA	530.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	22.0	NA	NA
	06/20/02	<.23	.60*	NA	NA	NA	1400.0	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	600.0	NA	NA
	12/17/02	<.23	<.44	NA	NA	NA	58.0	NA	NA
	03/24/03	.21*	<.43	NA	NA	NA	86.0	NA	NA
	03/24/04	NA	3.80	6.3	NA	NA	89.0	NA	NA
	03/29/05	NA	<0.52	<2.7	NA	NA	82.0	NA	NA
	03/23/06	NA	0.42	<5.0	NA	NA	43.0	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	23	NA	NA
MW-106	02/20/97	NA	21	NA	24	NA	320.0	NA	26
	05/27/97	<.02	40	NA	35	NA	590.0	<.2	68
	09/18/97	.05**	5.5	NA	6.2**	1**	56.9	<.03	35.6
	12/12/97	.04*	9.2	NA	9.7**	<.08	155.0	.03*	18.4
	03/25/98	NA	13.40	NA	14.4**	<1.7	150.0	.007*	18.5
	06/10/98	.04*	<3.9	NA	10.2**	<1.7	10.0	.016*	10.9
	10/27/98	.27*	3.20	NA	4.3*	<.0032	38.0	<.05	88
	02/09/99	<.31	<.62	NA	1.1*	<.0032	760.0	<.05	22
	06/08/99	<.31	.79*	NA	2.3	<.0032	900.0	<.05	<12
	09/13/99	<.31	1.80	NA	4.7	<.0032	1100.0	<.05	30
	12/15/99	<.31	1.3 *	NA	NA	NA	130.0	NA	NA
	03/31/00	<.31	2.30	NA	NA	NA	270.0	NA	NA
	06/22/00	<.31	.73 *	NA	NA	NA	<4.2	NA	NA
	09/27/00	<.23	.88*	NA	NA	NA	50.0	NA	NA
	12/19/00	<.23	.77*	NA	NA	NA	22.0	NA	NA

Table #6

GROUNDWATER ANALYTICAL RESULTS / Selected Metals
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

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)
MW-106 (continued)	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
MW-107	02/20/97	NA	2,000	NA	13	NA	190.0	NA	6.9
	05/27/97	<.2	3,600	NA	<10	NA	91.0	<.2	10
	09/18/97	<.04	2,670	NA	<8.1	1**	59.3	<.03	33.5
	12/12/97	.04*	2,310	NA	<9.7	<.8	48.4	.1*	6.7
	03/25/98	.04*	11,200*	NA	12.1**	<1.7	68.2	.041*	9.3*
	06/10/98	.11*	6,240	NA	13.8**	<1.7	161.0	.027*	17.3*
	10/27/98	<.16	7,100	NA	1.2*	<.0032	28.0	<.05	94
	02/09/99	<.31	3,200	NA	1.9*	<.0032	49.0	<.05	<12
	06/08/99	<.31	5,800	NA	3.0	<.0032	25.0	<.05	<12
	09/13/99	<.31	4,000	NA	1.9*	<.0032	18.0	<.05	<12
	12/15/99	<.31	14,000	NA	NA	NA	.83 *	NA	NA
	03/13/00	<.31	8,100	NA	NA	NA	22.0	NA	NA
	06/22/00	<.31	14,000	NA	NA	NA	<42	NA	NA
	09/27/00	<.23	11,000	NA	NA	NA	4.9	NA	NA
	12/19/00	<.23	10,000	NA	NA	NA	2.4	NA	NA
	03/01/01	<.23	5,000	NA	NA	NA	2.2	NA	NA
	06/19/01	<.17	8,200	NA	NA	NA	<2	NA	NA
	09/24/01	<17	5,300	NA	NA	NA	270.0	NA	NA
	12/05/01	<.23	6,200	NA	NA	NA	10.0	NA	NA
	03/19/02	<.23	7,000	NA	NA	NA	<20	NA	NA
	06/20/02	<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
MW-108	02/20/97	NA	25	NA	23	NA	490.0	NA	31
	05/27/97	<.2	11	NA	13	NA	210.0	<.2	15
	09/18/97	.14**	27.4	NA	22.4**	1**	462.0	<.03	36.6
	12/12/97	.04*	5.6	NA	<9.7	<.8	74.8	.03*	27.9
	03/25/98	.04*	9.4	NA	10.4**	<1.7	142.0	.007*	13.8
	06/10/98	.14*	28.4	NA	25.5	<1.7	478.0	.021*	40.5
	10/27/98	.26*	8.90	NA	7.40	<.0032	88.0	<0.5	44
	02/09/99	<.31	1.70	NA	3.90	<.0032	560.0	<.05	30
	06/08/99	<.31	3.10	NA	1.4*	<.0032	450.0	<.05	54
	09/13/99	<.31	4.50	NA	5.30	<.0032	100.0	<.05	<12
	12/15/99	<.31	6.10	NA	NA	NA	79.0	NA	NA

Table #6

GROUNDWATER ANALYTICAL RESULTS / Selected Metals

N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

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)
MW-108 (continued)	03/13/00	<.31	3.6	NA	NA	NA	41.0	NA	NA
	06/22/00	<.31	6.5	NA	NA	NA	<4.2	NA	NA
	09/27/00	<.23	2.9	NA	NA	NA	29.0	NA	NA
	12/19/00	<.23	3.0	NA	NA	NA	22.0	NA	NA
	03/01/01	<.23	<.57	NA	NA	NA	<2.0	NA	NA
	06/19/01	<.17	2.40	NA	NA	NA	110.0	NA	NA
	09/24/01	<.17	<.34	NA	NA	NA	40.0	NA	NA
	12/05/01	<.23	<.57	NA	NA	NA	7.4	NA	NA
	03/19/02	<.23	<.57	NA	NA	NA	3.4	NA	NA
	06/20/02	<.23	.85*	NA	NA	NA	39.0	NA	NA
	09/18/02	<.23	<.44	NA	NA	NA	150.0	NA	NA
	12/17/02	<.23	.67*	NA	NA	NA	34.0	NA	NA
	03/24/03	<.17	.67*	NA	NA	NA	3.3	NA	NA
	03/24/04	NA	0.79*	<36	NA	NA	83.0	NA	NA
	03/29/05	NA	0.65	<2.7	NA	NA	2.6	NA	NA
	03/27/06	NA	<0.40	<5.0	NA	NA	6.2	NA	NA
	03/27/07	NA	<1.9	NA	NA	NA	1.4	NA	NA
MW-109	6/21/06****	<0.92	1,300	1,400	2.4*	<9.4	480.0	<0.072	<20
	9/20/06****	NA	450	NA	-	<9.4	430.0	NA	<20
	12/19/06	NA	550	NA	NA	NA	NA	NA	NA
	03/29/07	NA	2,700	NA	NA	0.94	15	NA	<20
MW-110	6/21/06****	<0.92	24,000	26,000	2.9*	40	290.0	<0.072	<20
	9/20/06****	NA	15,000	NA	NA	41	260.0	NA	<20
	12/19/06	NA	15,000	NA	NA	53	NA	NA	NA
	03/29/07	NA	47,000	NA	NA	6.6	84	NA	<20
MW-111	6/21/06****	<0.92	1,400	1,400	3.3*	27	190.0	<0.072	<20
	9/20/06****	NA	22	NA	-	20*	210.0	NA	<20
	12/19/06	NA	6.7	NA	NA	NA	NA	NA	NA
	03/29/07	NA	2,300	NA	NA	31	11	NA	<20
MW-112	6/21/06****	<0.92	130,000	140,000	5.3	140	180.0	<0.072	34,000
	9/20/06****	NA	69,000	NA	NA	84	130.0	NA	<20
	12/19/06	NA	55,000	NA	NA	88	NA	NA	<200
	03/28/07	NA	140,000	NA	NA	450	110	NA	<20
MW-113	6/21/06****	<0.92	25,000	26,000	3.4*	11	170.0	<0.072	<20
	9/20/06****	NA	31,000	NA	NA	12*	85.0	NA	<20
	12/19/06	NA	21,000	NA	NA	NA	NA	NA	NA
	03/29/07	NA	11,000	NA	NA	<0.94	3.2	NA	<20
PZ-5	07/19/05****	NA	1.3*	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	0.41*	<5.0	NA	NA	NA	NA	NA
PZ-6	07/19/05****	NA	1.2*	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	<0.40	<5.0	NA	NA	NA	NA	NA
PZ-7	07/19/05****	NA	<0.52	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	0.55*	<5.0	NA	NA	NA	NA	NA
PZ-8	07/19/05****	NA	1.1*	<5.0	NA	NA	NA	NA	NA
	09/21/05****	NA	<0.40	<5.0	NA	NA	NA	NA	NA
Maximum Contaminant Level (MCL)		5	100	100***	100	200	50.0	2	5,000
1992 Enforcement Standard Chapter NR 140.10		10	50	50	1,000	200	50.0	2	5,000
1992 Preventive Action Limit Chapter NR 140.10		1.0	5	5***	500	40	25.0	0.2	2,500

Stable w.t.

w.t. inc 5.5'

w.t. inc 1'

w.t. inc. 1'

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 tabing.

ND = Not detected above the analytical laboratories method detection limit

NA = Not Analyzed

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

ug/L = Microgram/Liter

mg/L = Milligram / Liter

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

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

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

Table #7

GROUNDWATER ANALYTICAL RESULTS
Volatile Organic Compounds (VOC's)
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Benzene (ug/l)	Chloroform (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	cis-1,2,-Dichloroethene (ug/l)	Trans-1,2,-Dichloroethene (ug/l)	Ortho-Xylene (ug/l)	Toluene (ug/l)	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	Trichloroethene (ug/l)	Meta, para Xylene (ug/l)	Total Xylenes (ug/l)
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
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

Table #7

GROUNDWATER ANALYTICAL RESULTS
Volatile Organic Compounds (VOC's)
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Benzene (ug/l)	Chloroform (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	cis-1,2,-Dichloroethene (ug/l)	Trans-1,2,-Dichloroethene (ug/l)	Ortho-Xylene (ug/l)	Toluene (ug/l)	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	Trichloroethene (ug/l)	Meta, para Xylene (ug/l)	Total Xylenes (ug/l)
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*	[redacted]653*	<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
MW-102	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<.85	<85	<7	<7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<85	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<85	<7	<7	<.4	<68	<40	<.5	<.5	.4*	-
	06/10/98	<.5	<.6	<85	<85	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.65	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	.21*	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	<.42	<.32	<.42	***	<.43
MW-103	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<7	<7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	.15*	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	[redacted]23*	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.39	***	<.37	<.42	<.32	<.42	***	<.42

Table #7

GROUNDWATER ANALYTICAL RESULTS
Volatile Organic Compounds (VOC's)
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Benzene (ug/l)	Chloroform (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	cis-1,2,-Dichloroethene (ug/l)	Trans-1,2,-Dichloroethene (ug/l)	Ortho-Xylene (ug/l)	Toluene (ug/l)	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	Trichloroethene (ug/l)	Meta, para Xylene (ug/l)	Total Xylenes (ug/l)
MW-104	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	< 5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<7	<7	<124	<68	.324*	<.5	<.5	<124	-
	12/12/97	< 5	<.6	0.4	<.7	<7	<7	<120	<68	1*	<.5	0.9	<120	-
	03/25/98	< 5	<.6	<85	<.7	<7	<7	<120	<68	.8*	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	2*	<.5	<.5	<120	-
	10/27/98	<.24	<.23	.35*	<.28	<.27	<.26	<.17	<.21	1.8	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	.38*	<.15	<.16	<.17	***	.17*	1.5	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	.34*	<.15	<.16	<.17	***	.14*	1.4	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	.38*	<.15	<.16	<.17	***	.27*	1.6	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	.38 *	<.35	<.15	<.39	***	<.37	1.6	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	2.8	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	2.4	<.25	<.23	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	1.3*	<.32	<.42	***	<.43
MW-105	02/20/97	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	05/27/97	< 5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	-
	09/18/97	<.5	<.6	<85	<.7	<7	<7	<124	<68	<40	<.5	<.5	<124	-
	12/12/97	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	03/25/98	<.5	<.6	<85	<.7	<7	<7	<.4	<68	<40	<.5	<.5	.4*	-
	06/10/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.27	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	.16*	<.15	<.14	<.15	<.16	<.17	***	.3*	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13*	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	<.13	<.14	<.15	<.14	***	<.37
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.34	***	<.71
	03/01/01	<.12	<.15	<.64	<.13	<.28	<.13	****	<.17	<.17	<.25	<.13	***	<.56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	0.64*	<.42	<.32	<.42	***	<.43
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

Table #7

GROUNDWATER ANALYTICAL RESULTS
Volatile Organic Compounds (VOC's)
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Benzene (ug/l)	Chloroform (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	cis-1,2,-Dichloroethene (ug/l)	Trans-1,2,-Dichloroethene (ug/l)	Ortho-Xylene (ug/l)	Toluene (ug/l)	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	Trichloroethene (ug/l)	Meta, para Xylene (ug/l)	Total Xylenes (ug/l)
MW-107	02/20/97	<.5	0.3	11	8.4	0.7	<.7	<.5	<.5	81	0.6	50	<.5	-
	05/27/97	0.09	1.10	36	40	3.1	<3.1	<.5	0.34	390	3.5	420	<.5	-
	09/18/97	<10	<12	47.6*	22.1	2.61*	<2.61	<2480	<68	265*	2.83	295	<2480	-
	12/12/97	<10	<12	56*	23	3*	<3	<2500	<68	280	3	290	<2500	-
	03/25/98	<25	<30	61*	69	5*	<5	<17	<68	720	5	620	17*	-
	06/10/98	<12	<15	59*	58	<3	<3	<3100	63*	340*	4*	390	<3100	-
	10/27/98	<.24	1.4	62	46*	3.6	.51*	<.17	<.21	550	4.9	640	<.36	-
	02/09/99	<3.2	<3.8	48	24	<4.0	<4.2	***	<3.2	220	<.38	250	***	<9.2
	06/08/99	<2.6	<3.0	42	20	<3.2	<3.4	***	<2.6	200	<3.0	310	***	<7.4
	09/13/99	<.26	<3.0	34	19	<.32	<3.4	***	<2.6	180	<.3.0	320	***	<.7.4
	12/15/99	<3.2	<3.8	37	56	4.6 *	<4.2	***	<3.2	570	4.5 *	880	***	<9.2
	03/13/00	<26	<23	50 *	32 *	<12	<31	***	<30	340	<.90	630	***	<57
	06/22/00	<26	<23	<29	50 *	<12	<31	***	<30	540	<9	850	***	<57
	09/27/00	<26	<23	35*	54*	<12	<31	***	<30	560	<9	870	***	<57
	12/19/00	<6.4	<5.6	36	53	4.5*	<7.8	***	<7.5	480	4.1*	790	***	<20
	03/01/01	<6.0	<7.4	<32	<6.7	<14	<6.5	***	<8.7	420	<13	760	***	<28
	06/25/01	<6.5	<15	26	35	<9	<6.1	***	<6.2	360	<6.5	620	***	<32
	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
	03/19/02	<6.0	<7.5	37*	43	<14	<6.5	***	<8.7	440	<13	740	***	<28
	06/20/02	<7.9	<11	31	39	<7.2	<8.9	***	<7.6	410	<6.8	690	***	<14
	09/18/02	<7.9	<11	34	39	<7.2	<8.9	***	<7.6	430	<6.8	710	***	<14
	12/17/02	<7.9	<11	40	43	<7.2	<8.9	***	<7.6	470	<6.8	850	***	<14
	03/24/03	<.17	<.18	33*	37*	<19	<19	***	<19	390	<16	640	***	<22
	06/10/03	<5.7	<8.0	<5.3	39	<11	<8.2	***	<7.2	400	<9.0	680	***	<17
	09/10/03	<17	<18	36*	41*	<19	<19	***	<19	430	<16	730	***	<22
	12/10/03	<17	<18	25*	31*	<19	<19	***	<19	380	<16	740	***	<22
	03/24/04	<7.5	<7.0	<7.1	22	<6.8	<6.0	***	<7.6	220	<8.1	370	***	<19
	07/29/04	<2.0	<1.8	29	25	<4.1	<4.4	***	<3.4	310	3.4	510	***	<13.1
	09/22/04	<7.5	<7.0	28	34	<6.8	<6.0	***	<7.6	270	<8.1	570	***	<19
	12/14/04	<7.5	<7.0	33	40	<6.8	<6.0	***	<7.6	410	<8.1	800	***	<19
	03/29/05	<2.0	<1.8	39	20	<4.1	<4.4	***	<3.4	200	0.21	330	***	<13.1
	06/22/05	<1.0	<0.92	18	8.2	<2.1	<2.2	***	<1.7	82	<1.0	160	***	<6.6
	09/21/05	<2.0	<1.8	39	18.0	<4.1	<4.4	***	<3.4	220	<2.1	470	***	<13.1
	12/15/05	<2.0	<1.8	42	26.0	<4.1	<4.4	***	<3.4	250	<2.1	490	***	<13.1
	03/23/06	<2.0	<1.8	31	16.0	<4.1	<4.4	***	<3.4	150	<2.1	330	***	<13.1
	06/28/06	<2.0	<1.8	37	28.0	<4.1	<4.4	***	<3.4	270	<2.1	550	***	<13.1
	09/20/06	<4.1	<3.7	32	31.0	<8.3	<8.9	***	<6.7	330	<4.2	700	***	<26.3
	12/19/06	<2.0	<1.8	52	30	<4.1	<4.4		<3.4	280	3.3*	580		<13.1
	03/28/07	<0.82	<0.74	19	18	2.1	<1.8	***	<1.3	190	1.7	340	***	
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	-

Table #7

GROUNDWATER ANALYTICAL RESULTS
Volatile Organic Compounds (VOC's)
N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO No. M0050-930746.26

Well Name	Sample Date	Benzene (ug/l)	Chloroform (ug/l)	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	cis-1,2,-Dichloroethene (ug/l)	Trans-1,2,-Dichloroethene (ug/l)	Ortho-Xylene (ug/l)	Toluene (ug/l)	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	Trichloroethene (ug/l)	Meta, para Xylene (ug/l)	Total Xylenes (ug/l)
MW-108 (continued)	03/25/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<40	<.5	<.5	<120	-
	06/10/98	<.5	<.6	<85	<.7	<7	<7	<120	<68	<44	<.5	<.5	<120	-
	10/27/98	<.24	<.23	<.22	<.28	<.27	<.26	<.17	<.21	<.26	<.23	<.29	<.36	-
	02/09/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.83	<.14	<.15	<.14	***	<.37
	06/08/99	<.13	<.15	<.14	<.15	<.16	<.17	***	.15*	<.14	<.15	<.14	***	<.37
	09/13/99	<.13	<.15	<.14	<.15	<.16	<.17	***	0.84	<.14	<.15	<.14	***	<.32
	03/13/00	<.32	<.28	<.36	<.35	<.15	<.39	***	<.37	<.33	<.11	<.36	***	<.71
	03/31/01	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<56
	03/19/02	<.12	<.15	<.64	<.13	<.28	<.13	***	<.17	<.17	<.25	<.13	***	<.56
	03/24/03	<.35	<.35	<.35	<.39	<.39	<.37	***	<.37	<.42	<.32	<.42	***	<.43
MW-109	06/21/06	-	0.40*	1.3*	1.9	<0.83	<0.89	-	-	37	0.45*	46	-	-
	09/20/06	-	0.39*	1.7*	2.2	<0.83	<0.89	-	-	37	0.45*	51	-	-
	12/19/06	<0.41	0.44*	2.7	1.1*	<0.83	<0.89	-	-	33	0.52*	42	-	<2.63
	03/29/07	<0.41	<0.37	0.85	1.3	<0.83	<0.89	-	<13	27	<0.42	37	-	<2.63
MW-110	06/21/06	-	<3.7	310	340	56	19	-	-	1,500	<4.2	27	-	-
	09/20/06	-	<3.7	260	300	57	28*	-	-	1,100	<4.2	30	-	-
	12/19/06	<4.1	<3.7	230	240	55	16*	-	<6.7	910	<4.2	23	-	<2.63
	03/29/07	<8.2	<7.4	250	340	59	24	-	<13	1,500	<8.4	32	-	<53
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
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
MW-113	06/21/06	-	<0.74	37	44	4.4*	<1.8	-	-	240	<0.84	92	-	-
	09/20/06	-	<0.37	22	19	3.6	1.3*	-	-	120	0.82*	81	-	-
	12/19/06	<2.0	<1.8	28	16	5.2*	<4.4	-	<3.4	120	<2.1	91	-	<13.1
	03/29/07	<0.41	<0.37	10	11	1.6	<0.89	-	<0.67	77	<0.42	46	-	<2.63
PZ-5	07/19/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	1.7*	<0.42	<0.48	NA	NA	N
	09/21/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	<0.90	<0.42	<0.48	NA	NA	NA
PZ-6	07/19/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	<0.90	<0.42	<0.48	NA	NA	NA
	09/21/05	<0.37	<0.75	<0.57	<0.83	<0.89	NA	NA	<0.90	<0.42	<0.48	NA	NA	NA
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 Enforcement Standards (ES) 140.10		5	6	850	7	100	100	620**	343	200	0.6	5	620**	620
1992 Preventive Action Plan (PAL) 140.10		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,-Dichlo

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.

** = 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.

ND = Not Detected

NA = Not Analyzed

MCL = Maximum Contaminant Levels

ug/l = Microgram/Liter

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

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

Table #8

WEEKLY INFLUENT HEXAVALENT CHROMIUM RESULTS

N.W. Mauthe Superfund Site - Appleton, Wisconsin
MCO. No. M0050-930746.26

DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
02/26/97	1.0
03/03/97	.8
03/06/97	1.0
03/10/97	1.5
03/23/97	.9
03/29/97	1.2
04/06/97	1.1
04/09/97	1.2
04/16/97	1.0
04/25/97	1.0
04/27/97	1.1
05/02/97	1.1
05/08/97	1.1
05/13/97	1.2
05/21/97	1.1
05/29/97	1.1
06/06/97	1.2
06/13/97	1.2
06/17/97	1.3
06/23/97	1.2
07/02/97	1.2
07/08/97	1.2
07/14/97	1.2
07/21/97	1.2
07/28/97	1.4
08/04/97	1.4
08/13/97	1.3
08/18/97	1.3
08/25/97	1.3
09/04/97	1.3
09/08/97	1.5
09/15/97	1.4
09/24/97	1.3
10/01/97	1.3
10/08/97	1.4
10/15/97	1.3
10/22/97	1.4
10/29/97	1.4
11/05/97	1.3
11/11/97	1.2
11/22/97	1.0
11/24/97	1.0
12/03/97	1.0
12/10/97	1.0
12/17/97	1.1
01/07/98	1.0
01/14/98	1.0
01/21/98	1.0
01/28/98	1.0
02/04/98	1.4
02/11/98	1.4
02/18/98	1.4
02/25/98	0.8
03/04/98	1.3
03/11/98	1.3
03/18/98	1.3
03/26/98	1.3
04/01/98	0.8
04/08/98	1.0
04/15/98	1.3
04/23/98	1.3
04/29/98	1.3

DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
05/06/98	1.3
05/13/98	1.3
05/20/98	1.3
05/27/98	1.4
06/03/98	1.3
06/10/98	1.4
06/17/98	1.2
06/24/98	1.2
07/01/98	1.1
07/08/98	1.1
07/15/98	1.1
07/23/98	1.3
07/29/98	1.3
08/06/98	1.2
08/12/98	1.2
08/19/98	1.2
08/26/98	1.2
09/02/98	1.2
09/09/98	1.2
09/16/98	1.2
09/23/98	1.2
09/30/98	1.2
10/07/98	1.0
10/15/98	1.1
10/21/98	1.3
10/28/98	1.3
11/04/98	1.1
11/11/98	1.1
11/18/98	1.2
11/25/98	1.2
12/02/98	1.2
12/09/98	1.5
12/16/98	1.3
12/23/98	1.3
12/30/98	1.3
01/06/99	1.3
01/12/99	1.1
01/20/99	1.2
01/28/99	1.3
02/03/99	1.3
02/10/99	1.4
02/17/99	1.4
02/24/99	1.4
03/03/99	1.3
03/10/99	1.3
03/17/99	1.3
03/24/99	1.3
03/31/99	1.3
04/07/99	1.2
04/14/99	1.2
04/21/99	1.1
04/28/99	1.2
05/05/99	1.2
05/12/99	1.2
05/19/99	1.1
05/26/99	1.2
06/02/99	1.1
06/10/99	1.4
06/16/99	1.5
06/23/99	2.2
06/30/99	2.2
07/07/99	2.4

DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
07/14/99	2.0
07/21/99	1.8
07/28/99	1.2
08/04/99	1.5
08/11/99	1.4
08/18/99	1.3
08/25/99	1.3
09/01/99	1.3
09/08/99	1.4
09/15/99	1.5
09/21/99	1.3
09/29/99	1.2
10/06/99	1.4
10/13/99	1.5
10/20/99	1.4
10/27/99	1.4
11/04/99	1.3
11/10/99	1.2
11/18/99	1.3
11/24/99	1.2
11/30/99	1.3
12/08/99	1.3
12/15/99	1.2
12/22/99	1.3
12/29/99	1.2
01/06/00	1.3
01/12/00	1.3
01/19/00	1.2
01/26/00	1.2
02/02/00	1.1
02/09/00	1.1
02/16/00	1.2
02/23/00	1.3
03/01/00	1.2
03/08/00	1.3
03/14/00	1.2
03/22/00	1.2
03/29/00	1.1
04/05/00	1.4
04/11/00	1.1
04/19/00	1.1
04/26/00	1.1
05/03/00	1.3
05/10/00	1.1
05/17/00	1.2
05/24/00	1.1
05/31/00	1.1
06/07/00	1.4
06/14/00	0.5
06/21/00	1.0
06/28/00	1.1
07/05/00	1.3
07/12/00	1.2
07/19/00	1.3
07/26/00	1.3
08/02/00	1.3
08/09/00	1.4
08/16/00	1.2
08/23/00	1.4
08/30/00	1.3
09/06/00	1.4
09/13/00	1.2

DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
09/20/00	1.2
09/27/00	1.4
10/03/00	1.3
10/11/00	1.3
10/18/00	2.5
10/25/00	2.2
11/01/00	1.8
11/08/00	1.4
11/15/00	1.8
11/22/00	1.8
11/29/00	1.4
12/06/00	1.6
12/13/00	1.4
12/20/00	1.2
12/27/00	1.3
01/03/01	1.2
01/10/01	1.4
01/17/01	1.8
01/24/01	1.4
01/31/01	1.3
02/07/01	1.2
02/13/01	2.0
02/21/01	1.5
02/28/01	1.4
03/17/01	1.3
03/14/01	1.2
03/21/01	1.3
03/28/01	1.2
04/04/01	1.4
04/11/01	1.2
04/18/01	1.2
04/25/01	1.4
05/02/01	1.3
05/09/01	1.3
05/16/01	1.2
05/23/01	1.3
05/30/01	1.1
06/06/01	1.2
06/13/01	1.4
06/20/01	1.2
06/27/01	1.3
07/04/01	1.3
07/11/01	1.2
07/18/01	1.4
07/25/01	1.3
08/01/01	1.6
08/08/01	1.3
08/15/01	1.2
08/22/01	1.1
08/29/01	1.3
09/05/01	1.4
09/12/01	1.4
09/19/01	3.0
09/25/01	2.4
10/01/01	1.5
10/09/01	2.5
10/18/01	2.0
10/24/01	2.3
10/31/01	2.5
11/09/01	1.4
11/17/01	1.2
11/21/01	1.3

DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
11/29/01	1.4
12/06/01	1.5
12/14/01	2.0
12/20/01	2.0
12/27/01	2.5
01/03/02	2.5
01/10/02	2.0
01/17/02	2.5
01/24/02	2.0
01/31/02	1.5
02/07/02	2.5
02/13/02	2.5
02/21/02	3.0
02/28/02	2.5
03/07/02	2.0
03/14/02	1.5
03/21/02	2.5
03/28/02	1.5
04/04/02	1.5
04/11/02	1.5
04/18/02	2.0
04/25/02	2.5
05/02/02	3.0
05/09/02	1.5
05/16/02	1.5
05/23/02	1.5
05/30/02	2.0
06/06/02	1.5
06/13/02	2.0
06/20/02	3.0
06/27/02	2.0
07/03/02	2.0
07/11/02	1.5
07/18/02	1.0
07/25/02	0.1
08/01/02	0.0
08/08/02	0.0
08/15/02	0.0
08/22/02	0.0
08/29/02	0.0
09/09/02	0.0
09/12/02	0.4
09/19/02	0.1
09/26/02	0.0
10/03/02	0.0
10/10/02	1.5
10/17/02	1.5
10/24/02	1.5
10/31/02	1.5
11/07/02	1.5
11/14/02	1.5
11/21/02	1.0
11/27/02	1.5
12/05/02	0.0
12/12/02	0.0
12/19/02	0.2
12/26/02	0.2
01/02/03	0.4
01/09/03	0.4
01/16/03	0.0
01/23/03	0.1
01/30/03	0.3

DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
02/06/03	0.0
02/14/03	0.0
02/20/03	0.0
02/27/03	0.3
03/06/03	0.3
03/13/03	0.3
03/22/03	0.4
03/27/03	0.4
04/03/03	1.2
04/11/03	1.4
04/18/03	0.9
04/25/03	1.1
05/01/03	1.2
05/08/03	0.8
05/15/03	0.4
05/22/03	1.2
06/01/03	1.1
06/11/03	1.1
06/19/03	1.4
06/26/03	0.9
07/03/03	0.9
07/10/03	1.0
07/17/03	1.0
07/24/03	1.0
07/31/03	1.0
08/07/03	1.4
08/14/03	1.2
08/21/03	1.0
08/28/03	1.0
09/04/03	0.1
09/11/03	0.1
09/20/03	0.0
09/25/03	0.0
10/02/03	0.0
10/09/03	0.3
10/16/03	0.3
10/23/03	0.7
10/30/03	1.1
11/06/03	1.0
11/13/03	1.4
11/20/03	1.4
11/27/03	1.2
12/04/03	1.1
12/11/03	1.5
12/18/03	1.3
12/25/03	0.5
01/02/04	0.8
01/08/04	0.8
01/15/04	0.6
01/22/04	0.6
01/29/04	0.6
02/05/04	0.5
02/12/04	0.0
02/19/04	0.0
02/26/04	0.9
03/04/04	1.3
03/11/04	0.8
03/18/04	0.6
03/25/04	0.8
04/01/04	0.6
04/08/04	0.5
04/15/04	0.2

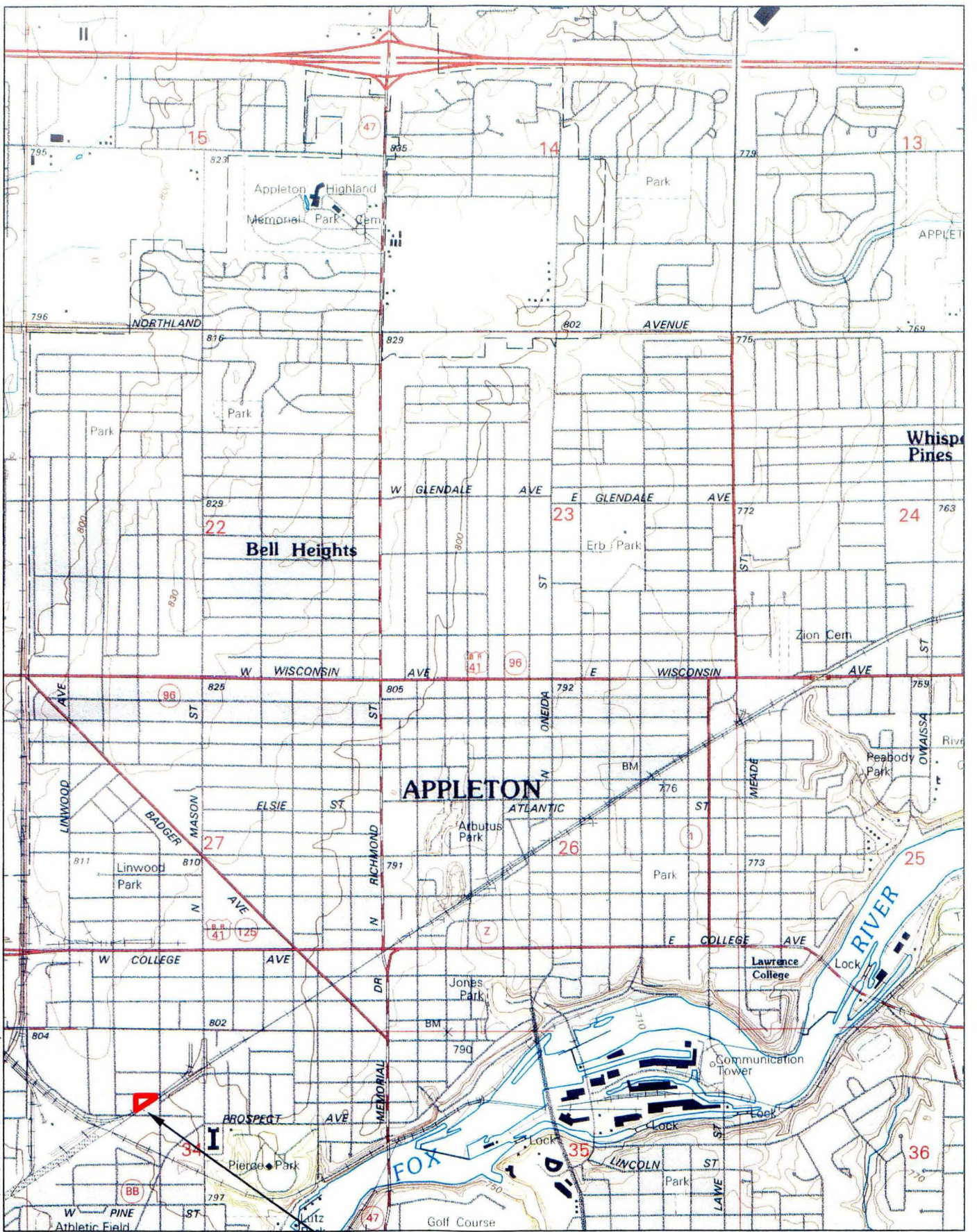
DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
04/22/04	0.2
04/29/04	0.7
05/06/04	0.5
05/13/04	1.2
05/22/04	1.3
05/27/04	0.5
06/03/04	0.5
06/10/04	0.5
06/17/04	0.7
06/24/04	0.7
07/01/04	0.7
07/08/04	1.1
07/15/04	1.0
07/22/04	1.1
07/29/04	0.5
08/05/04	0.7
08/12/04	1.2
08/19/04	1.1
08/26/04	1.1
09/02/04	1.6
09/09/04	1.5
09/16/04	1.3
09/23/04	1.1
09/30/04	1.1
10/07/04	0.6
10/14/04	0.6
10/21/04	0.4
10/28/04	0.4
11/04/04	0.7
11/11/04	0.7
11/18/04	0.7
11/26/04	0.7
12/02/04	0.7
12/09/04	0.7
12/16/04	0.8
12/23/04	0.8
12/30/04	1.3
01/06/05	1.3
01/13/05	1.3
01/20/05	1.0
01/27/05	0.9
02/03/05	1.2
02/10/05	1.0
02/17/05	1.0
02/24/05	1.0
03/03/05	1.0
03/10/05	0.9
03/17/05	0.9
03/24/05	0.8
03/31/05	0.7
04/07/05	1.2
04/14/05	1.1
04/21/05	1.8
04/28/05	1.8
05/05/05	1.2
05/12/05	1.2
05/19/05	0.9
05/26/05	1.5
06/02/05	1.5
06/09/05	1.5
06/16/05	1.3
06/23/05	1.3

DATE	INFLUENT HEXAVALENT CHROMIUM* (ppm)
06/30/05	1.3
07/07/05	0.4
07/14/05	0.4
07/22/05	0.4
07/28/05	1.2
08/04/05	1.2
08/11/05	1.2
08/18/05	1.1
08/25/05	1.5
09/01/05	1.5
09/08/05	1.5
09/15/05	1.4
09/22/05	1.4
09/29/05	1.3
10/06/05	1.3
10/13/05	1.5
10/20/05	1.7
10/27/05	1.7
11/03/05	1.7
11/10/05	1.5
11/17/05	2.5
12/01/05	1.2
12/08/05	1.2
12/22/05	1.2
12/29/05	1.2
01/05/06	1.3
01/12/06	1.3
01/19/06	1.7
01/26/06	1.7
02/02/06	1.7
02/09/06	1.5
02/16/06	1.5
02/23/06	1.0
03/02/06	1.0
03/09/06	1.3
03/16/06	1.7
03/23/06	1.2
03/30/06	1.2
04/06/06	1.0
04/13/06	1.3
04/18/06	1.2
04/25/06	1.3
05/02/06	1.5
05/09/06	1.2
05/16/06	1.3
05/23/06	1.5
05/30/06	0.8
06/06/06	0.81
06/13/06	0.68
06/20/06	0.45
06/27/06	0.35
07/05/06	<0.0068
07/11/06	1.9
07/18/06	2.2
07/25/06	<0.0068
08/01/06	0.81
08/08/06	1.0
08/15/06	<0.0068
08/22/06	<0.0068
08/29/06	0.017
09/05/06	<0.0068
09/12/06	0.24
09/19/06	1.10
09/26/06	1.20
10/3/2006	1.6
10/10/2006	1.6
10/17/2006	1.8
10/24/2006	2.1
10/31/2006	1.7
11/7/2006	1.5
12/6/2006	2.4
01/03/2007	1.6
02/08/2007	1.8
03/06/2007	2.1

monthly

Note: Beginning June 6, 2006, the hexavalent chromium results are based upon laboratory analysis. The prior results were based on testing using a Hach kit.

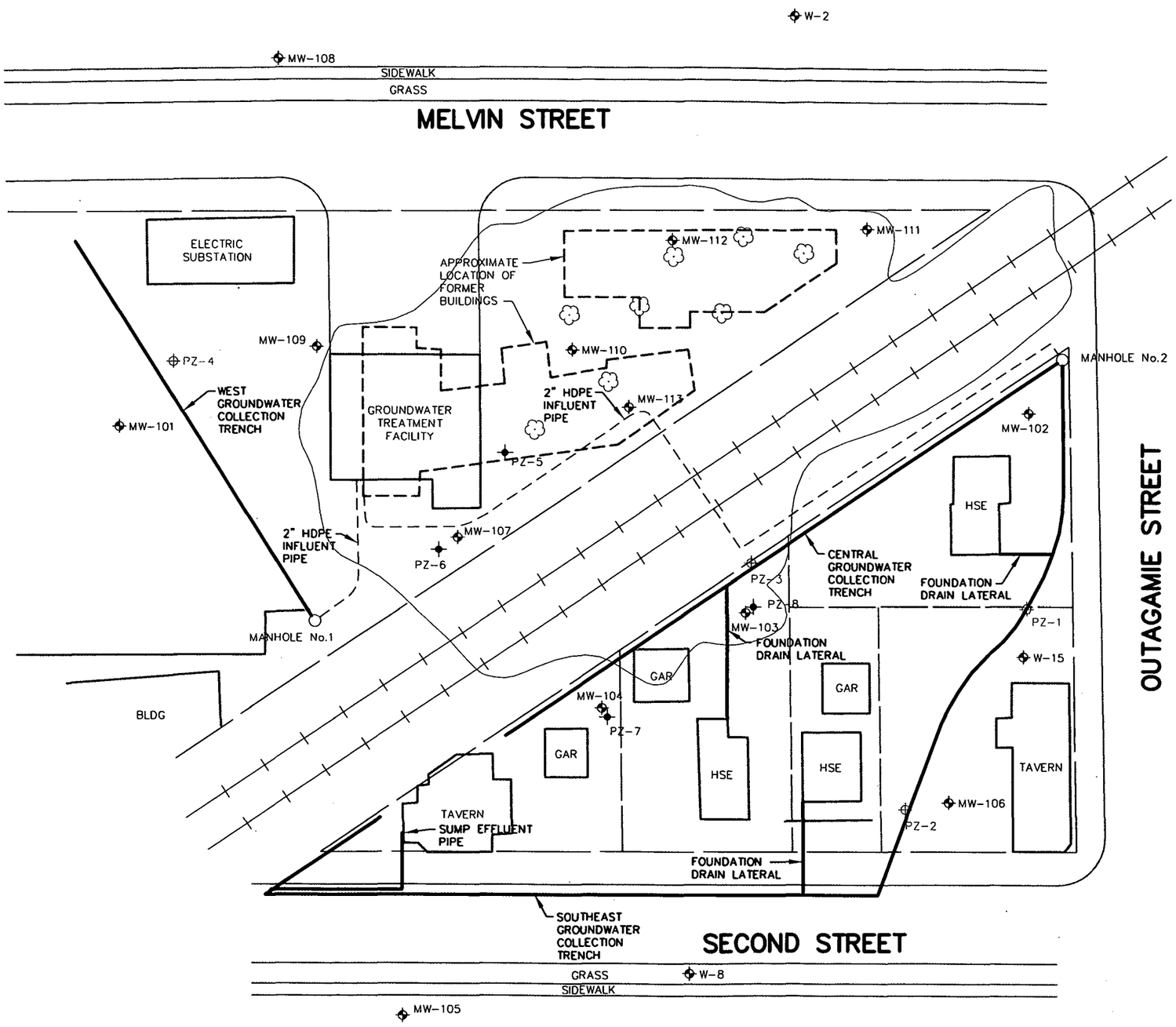
SAB:car
W:\WP\REPORT\M0050\930746\Qtrly-PR#34 & Semi-Annual O&M (Tables).xls (Table #8)



ID: PPT\2004\MCM WIS\MAUTHE.PPT SAB:jmk

McMAHON ASSOCIATES
ENGINEERS | ARCHITECTS | SURVEYORS | PROJECT MANAGERS

Figure 1
SITE LOCATION MAP
N.W. MAUTHE SUPERFUND SITE - APPLETON, WI
McM #M0050-930746.26 8/11/04



NORTH

50 25 0 50

SCALE – FEET

LEGEND

- MW-101 MONITORING WELL
- PZ-8 PIEZOMETER (Installed by Omnni Associates, Inc. in 2005)
- PZ-1 ABANDONED PIEZOMETER

APPROXIMATE SOIL REMEDIATION EXCAVATION LIMITS JULY 11 – OCTOBER 27, 1995 (10,834 TONS)

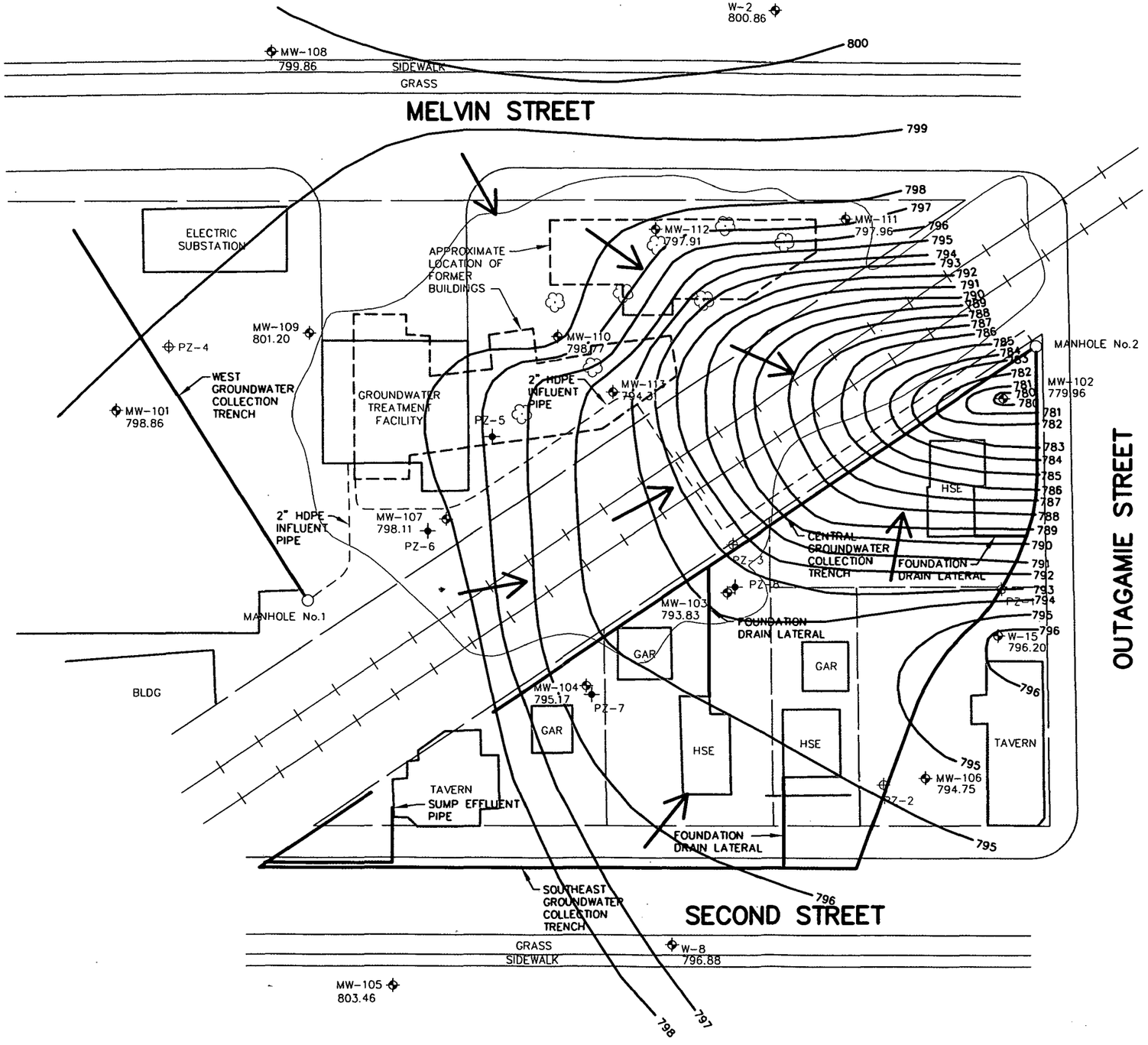
Note:
Monitoring wells MW-109 through MW-113 were installed by Omnni Associates, Inc. in May, 2006.

FIGURE 2

COLLECTION TRENCH AND MONITORING WELL LOCATIONS N.W. MAUTHE SUPERFUND SITE

APPLETON, WISCONSIN

McM# M0050-930746.26 MARCH 2007



NORTH

50 25 0 50

SCALE – FEET

LEGEND

- MW-101 MONITORING WELL
- PZ-8 PIEZOMETER (Installed by Omnni Associates, Inc. in 2005)
- PZ-1 ABANDONED PIEZOMETER
- APPROXIMATE SOIL REMEDIATION EXCAVATION LIMITS JULY 11 – OCTOBER 27, 1995 (10,834 TONS)
- W-2 804.58 MONITORING WELL & GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- 797 GROUNDWATER CONTOUR

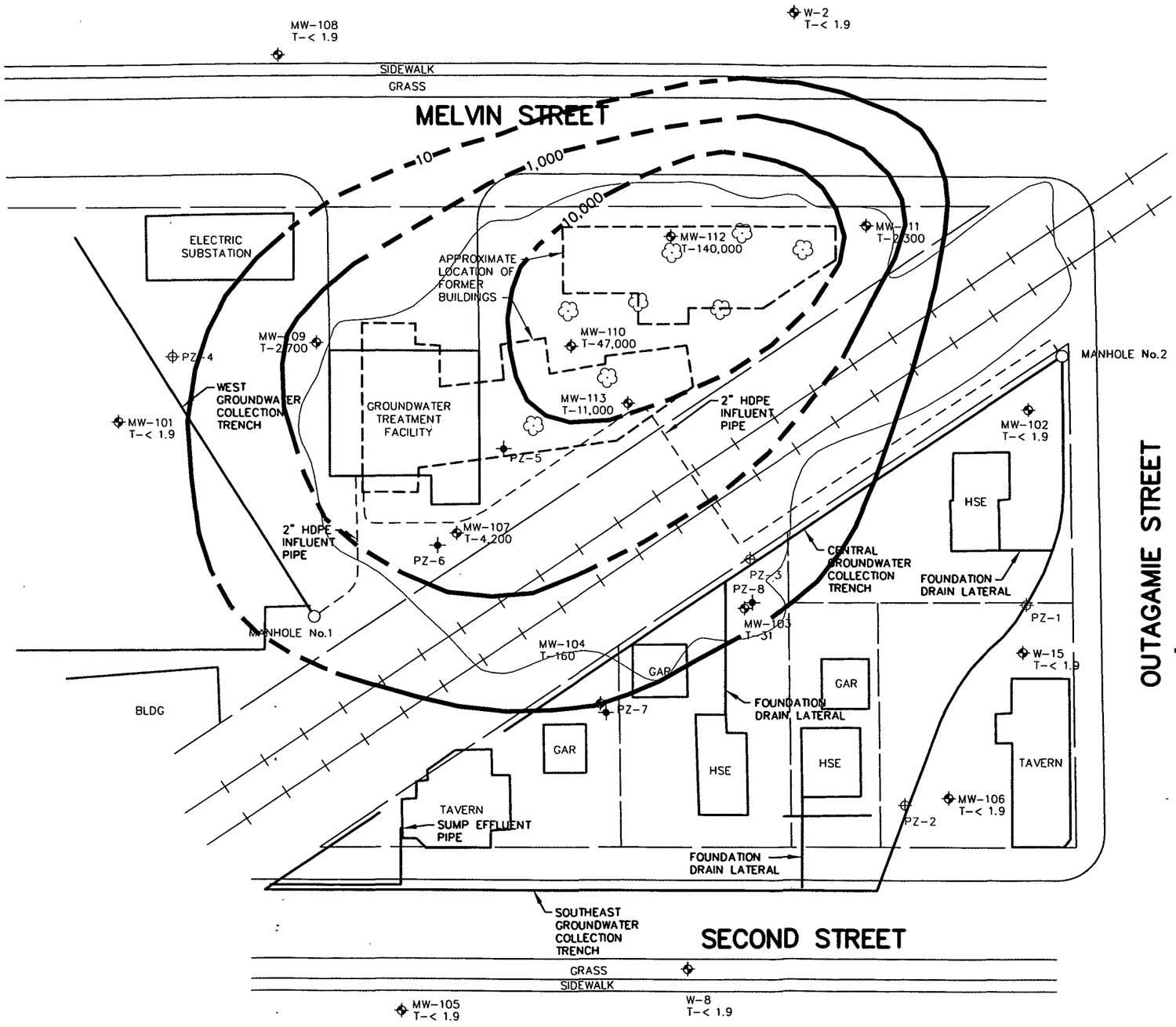
NOTE:
THE GROUNDWATER CONTOURS WERE DRAWN ASSUMING NO INFLUENCE BY THE GROUNDWATER COLLECTION SYSTEM, WHICH IS NOT THE CASE.

Note:
Monitoring wells MW-109 through MW-113 were installed by Omnni Associates, Inc. in May, 2006.

FIGURE 3

GROUNDWATER CONTOURS
MARCH 13, 2007
N.W. MAUTHE SUPERFUND SITE

APPLETON, WISCONSIN
McM# M0050-930746.26



OUTAGAMIE STREET

NORTH

50 25 0 50

SCALE – FEET

LEGEND

- MW-101 MONITORING WELL
- PZ-8 PIEZOMETER (Installed by Omnni Associates, Inc. in 2005)
- PZ-1 ABANDONED PIEZOMETER

APPROXIMATE SOIL REMEDIATION EXCAVATION LIMITS
JULY 11 – OCTOBER 27, 1995
(10,834 TONS)

10 ISOCONCENTRATION OF TOTAL CHROMIUM (ESTIMATED) (doshed where inferred)

< LESS THAN THE DETECTION LIMIT

ug/L MICROGRAM.LITER

T TOTAL CHROMIUM CONCENTRATION (ug/L) IN THE GROUNDWATER

H HEXAVALENT CHROMIUM CONCENTRATION (ug/L) IN THE GROUNDWATER

* ANALYTE DETECTED IN THE AREA OF LESS CERTAIN QUANTITATION

NOTE:
DATA SHOWN FROM MONITORING WELLS W-2, W-8, W-15, MW-101, MW-102, MW-105, MW-106 AND MW-108 ARE FROM THE MOST RECENT ANNUAL SAMPLING EVENT. SEE TABLE 6 FOR DATE.

Note:
Monitoring wells MW-109 through MW-113 were installed by Omnni Associates, Inc. in May, 2006.

FIGURE 4

ISOCONCENTRATION MAP
TOTAL CHROMIUM ug/L In Groundwater
MARCH 27-29, 2007
N.W. MAUTHE SUPERFUND SITE

APPLETON, WISCONSIN

McM# M0050-930746.26

APPENDIX A

FORM 4400-194
"OPERATION, MAINTENANCE, MONITORING & OPTIMIZATION REPORTING
OF SOIL & GROUNDWATER REMEDIATION SYSTEMS"

State of Wisconsin
Department of
Natural Resources

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

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

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

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

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

A. GENERAL INFORMATION:

1. Site name: N.W. Mauthe Superfund Site
2. Reporting period from: October 1, 2006 To: March 31, 2007 Days in period: 182
3. Regulatory agency (enter DNR, DCOM, DATCP and/or other): WDNR and USEPA
4. DNR issued site number: BRRTS# 02-45-000127
5. State reimbursement fund claim number and fund name (if not applicable, enter NA): NA
6. Site location:
   a. DNR region and county: Northeast Region, Outagamie County
   b. Street address and municipality: 725 South Outagamie St. Appleton, WI
   c. Township, range, section and quarter quarter section: NE1/4 of NW1/4 of Sec. 34, T21N, R17E
7. Responsible party:
   a. Name: Carol Mauthe (DNR Contact: Jennifer Borski)
   b. Mailing address: WDNR, 625 East County Rd. Y, Suite 700
      Oshkosh, WI 54901-9731
   c. Phone number: (920) 424-7887
8. Consultant:
   a. Company name: McMahon Associates, Inc.
   b. Mailing address: P.O. Box 1025
      Neenah, WI 54957-1025
   c. Phone number: (920) 751-4200
9. Contaminants: Chromium, VOCs and Cyanide
10. Soil types (USCS or USDA): silty clay and clay
11. Hydraulic conductivity (cm/sec): + or - 1x10-7
12. Average linear velocity of groundwater (ft/yr): -

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: N.W. Mauthe Superfund Site

Reporting period from: October 1, 2006 To: March 31, 2007 Days in period: 182

A. GENERAL INFORMATION (CONTINUED):

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

    a. DNR region and county: NA

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

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

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

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

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

D. ECONOMIC AND COST DATA TO DATE:

1. Total investigation costs ($): _____
2. Implementation costs (design, capital and installation costs, excluding investigation costs) ($): NA
3. Total costs during the previous reporting period ($): _____
4. Total costs during this reporting period ($): $12,675
5. Total anticipated costs for the next reporting period ($): _____
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? (Y/N) If yes explain: _____
7. If close out is anticipated within 12 months, estimated costs for project closeout ($): NA

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: N.W. Mauthe Superfund Site

Reporting period from: October 1, 2006 To: March 31, 2007 Days in period: 182

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

Registered Professional Engineers:

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

Signature, title, P.E. number and date: Thomas J. Kispert, SR. PROJECT ENGR, E-26225, 4-19-07

Hydrogeologists:

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

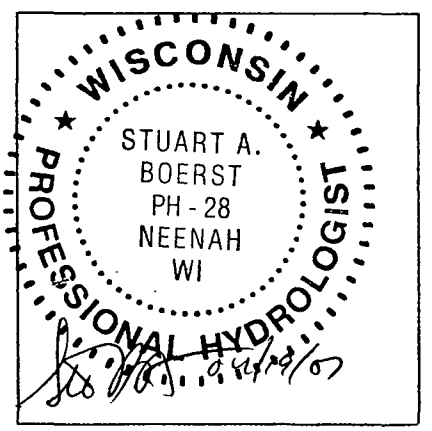
Signature, title and date: Stuart A. Boerst, Sr. Hydrogeologist, 04/19/07

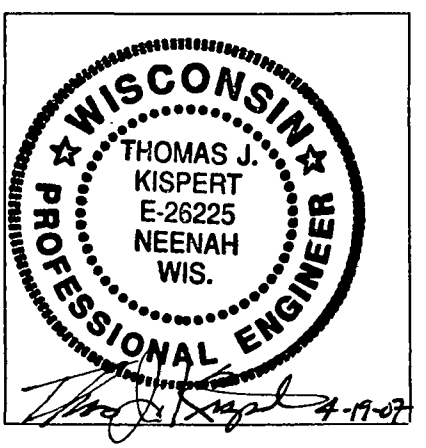
Scientists:

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

Signature, title and date: Stuart A. Boerst, Sr. Hydrogeologist, 04/19/07

Professional Seal(s), if applicable:





State of Wisconsin
Department of
Natural Resources

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

Form 4400-194
7-96

GROUNDWATER PUMP AND TREAT SYSTEMS AND FREE PRODUCT RECOVERY SYSTEMS

SITE NAME AND REPORTING PERIOD:

Site name: N.W. Mauthe Superfund Site

Reporting period from: October 1, 2006 To: March 31, 2007 Days in period: 182

Date that the system was first started up: January 14, 1997

A. GROUNDWATER EXTRACTION SYSTEM OPERATION:

1. Total number of groundwater extraction wells or trenches available and the number in use during period: 3/3
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): 183
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: 100%
4. Quantity of groundwater extracted during this time period (gallons): 274,680
5. Average groundwater extraction rate (gpm): 1.05 gpm
6. Quantity of dissolved phase contaminants removed during this time period in pounds: Chromium - 4.17 lbs.

B. FREE PRODUCT RECOVERY SYSTEM OPERATION:

1. Is free product (nonaqueous phase liquid) being recovered at this site? (Y/(N)) If yes, list method:
2. Quantity of free product extracted during this time period (gallons, enter none if none):
3. Average free product extraction rate (gpd):

C. SYSTEM EFFECTIVENESS EVALUATION:

1. Is a contaminated groundwater plume fully contained in the capture zone?((Y)/N) If no, explain:
2. If free product is present, is the free product fully contained in capture zone? (Y/N) 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: Chromium - MW-112 - 140,000 ug/l
   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: ES- 99.97% PAL- 99.99%
   c. Maximum contaminant concentration level in any monitoring well of that contaminant (µg/L): chromium - 140,000 ug/l
   d. Maximum contaminant concentration level in any extraction well of that contaminant (µg/L): NA
   e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.

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.

APPENDIX B

LABORATORY ANALYTICAL RESULTS, OUTFALL #001

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

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JCG

COC No. 023213

CHAIN OF CUSTODY

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

Company Name:	MCO
Branch/Location:	Menasha
Project Contact:	Stuart Boerst
Phone:	920-751-4200
Project Number:	
Project Name:	Manitowoc
Project State:	WI
Sampled By (Print):	Paul Mach
Sampled By (Sign):	Paul Mach
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Stuart Boerst
Mail To Company:	McMahon
Mail To Address:	Neenah
Invoice To Contact:	Randy Much
Invoice To Company:	MCO
Invoice To Address:	Menasha
Invoice To Phone:	920-751-4760

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick (Letter)				
001	Manitowoc Effluent	4/2		GW	N	D	Metals (See Attached), Cyanide, TOC		4-250mL C,C,G,G	

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Paul Mach	4/2/07	B Kenyon	4/3/07 1430
B Kenyon	4/3/07 1540		4/3/07 1540

PACE Project No.: 882265

Receipt Temp = 10.1 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present

Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

C019a(27Jun2006)

Pace Analytical®

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

Analytical Report Number: 882265

Client: MIDWEST CONTRACT OPERATIONS, INC.
Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
882265-001	MAUTHE EFFLUENT	WATER	04/02/07

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

Approval Signature

4-13-07
Date

Pace Analytical Services, Inc.

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

Analytical Report Number: 882265

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MAUTHE EFFLUENT

Matrix Type : WATER
Collection Date : 04/02/07
Report Date : 04/13/07
Lab Sample Number : 882265-001

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Aluminum		INCL.									
Arsenic		INCL.									
Cadmium		INCL.									
Chromium		INCL.									
Copper		INCL.									
Lead		INCL.									
Mercury		INCL.									
Nickel		INCL.									
Zinc		INCL.									
Cyanide, Total	<	0.0094	0.0094	0.031		1	mg/L		04/11/07	EPA 335.4	EPA 335.4

Qualifier Codes

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

Test Group Name	882265-001
ALUMINUM	M
ARSENIC	M
CADMIUM	M
CHROMIUM	M
COPPER	M
CYANIDE, TOTAL	B
LEAD	M
MERCURY	M
NICKEL	M
ZINC	M

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

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1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: (612)607-1700
Fax: (612)607-6444

April 12, 2007

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

RE: Project: 882265 MCO
Pace Project No.: 1049381

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Julie Thieschafer

julie.thieschafer@pacelabs.com
Project Manager

Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: (612)607-1700
Fax: (612)607-6444

SAMPLE SUMMARY

Project: 882265 MCO
Pace Project No.: 1049381

Lab ID	Sample ID	Matrix	Date Collected	Date Received
882265001	MAUTHE EFFLUENT	Water	04/02/07 00:00	04/06/07 09:15

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SAMPLE ANALYTE COUNT

Project: 882265 MCO
Pace Project No.: 1049381

Lab ID	Sample ID	Method	Analytes Reported
882265001	MAUTHE EFFLUENT	EPA 200.8	8
		EPA 245.1	1

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ANALYTICAL RESULTS

Project: 882265 MCO
Pace Project No.: 1049381

Sample: MAUTHE EFFLUENT **Lab ID: 882265001** Collected: 04/02/07 00:00 Received: 04/06/07 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Aluminum	**38.3**	ug/L	1.6	0.49	1	04/09/07 13:58	04/10/07 13:40	7429-90-5	
Arsenic	**0.24**	ug/L	0.12	0.035	1	04/09/07 13:58	04/10/07 13:40	7440-38-2	
Cadmium	**0.086**	ug/L	0.057	0.017	1	04/09/07 13:58	04/10/07 13:40	7440-43-9	
Chromium	**1410**	ug/L	15.0	4.6	50	04/09/07 13:58	04/11/07 18:37	7440-47-3	
Copper	**4.1**	ug/L	0.087	0.026	1	04/09/07 13:58	04/10/07 13:40	7440-50-8	
Lead	**0.13**	ug/L	0.10	0.030	1	04/09/07 13:58	04/10/07 13:40	7439-92-1	
Nickel	**3.5**	ug/L	0.14	0.043	1	04/09/07 13:58	04/10/07 13:40	7440-02-0	
Zinc	**9.0**	ug/L	1.0	0.30	1	04/09/07 13:58	04/10/07 13:40	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	0.063	0.019	1	04/10/07 00:00	04/11/07 09:19	7439-97-6	

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QUALITY CONTROL DATA

Project: 882265 MCO
Pace Project No.: 1049381

QC Batch: MPRP/8741
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Associated Lab Samples: 882265001

METHOD BLANK: 327571
Associated Lab Samples: 882265001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	ND	1.6	
Arsenic	ug/L	ND	0.12	
Cadmium	ug/L	ND	0.057	
Chromium	ug/L	ND	0.30	
Copper	ug/L	ND	0.087	
Lead	ug/L	ND	0.10	
Nickel	ug/L	ND	0.14	
Zinc	ug/L	3.9	1.0	

LABORATORY CONTROL SAMPLE: 327572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	83.0	104	85-115	
Arsenic	ug/L	80	78.6	98	85-115	
Cadmium	ug/L	80	80.4	100	85-115	
Chromium	ug/L	80	82.2	103	85-115	
Copper	ug/L	80	82.5	103	85-115	
Lead	ug/L	80	78.0	97	85-115	
Nickel	ug/L	80	83.9	105	85-115	
Zinc	ug/L	80	79.5	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 327588 327589

Parameter	Units	1049411001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	11.4	80	80	95.3	95.8	105	106	70-130	.5	20	
Arsenic	ug/L	3.4	80	80	80.8	81.5	97	98	70-130	.8	20	
Cadmium	ug/L	ND	80	80	77.1	76.7	96	96	70-130	.5	20	
Chromium	ug/L	ND	80	80	75.6	75.8	94	94	70-130	.2	20	
Copper	ug/L	1.2	80	80	79.0	78.4	97	97	70-130	.8	20	
Lead	ug/L	0.31	80	80	76.3	76.1	95	95	70-130	.3	20	
Nickel	ug/L	0.62	80	80	79.7	79.7	99	99	70-130	.03	20	
Zinc	ug/L	ND	80	80	79.3	79.9	94	95	70-130	.7	20	

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QUALITY CONTROL DATA

Project: 882265 MCO
Pace Project No.: 1049381

QC Batch: MERP/1656
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 882265001

METHOD BLANK: 328272
Associated Lab Samples: 882265001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.063	

LABORATORY CONTROL SAMPLE: 328273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 328274 328275

Parameter	Units	882265001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.4	5.6	109	113	85-115	4	30	

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QUALIFIERS

Project: 882265 MCO
Pace Project No.: 1049381

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

//

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 882265 MCO
Pace Project No.: 1049381

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
882265001	**MAUTHE EFFLUENT**	EPA 200.8	MPRP/8741	EPA 200.8	ICPM/3638
882265001	**MAUTHE EFFLUENT**	EPA 245.1	MERP/1656	EPA 245.1	MERC/2501

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Sample Condition Upon Receipt

Pace Analytical

Client Name: MCO Project # 882265

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

Optional: Proj. Due Date: Proj. Name:

Tracking #: _____

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

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

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

Cooler Temperature NOI Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: NB 4/3/07 CL 4/3/07

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 4-4-07

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

APPENDIX C

GROUNDWATER SAMPLING DATA SHEETS

Groundwater Monitoring Field Form

Project Number _____

Project Name Maathe

Location _____

Date 3-13-07-water levels

Personnel Paul Much

Temp./Weather overcast / Cool 40°

Well	Date	Time	Depth to Water (Top of PVC) (ft)	Total Well Depth (Top of PVC) (ft)	Water Column Length (ft)	Req'd. Gals to Purge 4 Casing Volumes	Amount Purged (gal)	Water Appear. (see below)	Sampling Method (see below)	Free Product (ft)	Sampl. (Y/N)	pH	Temp °C	Conduct-ivity uS	D.O. mg/l	Redox mV	Alkalinity gpg	Ferrous Iron mg/l	Comments
MW-101	3/27		8.73				5	1	EP		Y	6.7	13.3	2440	3.64	187		0	
MW-108	3/27		6.75				9	1	EP		Y	7.2	12.9	3190	5.05	185		0.04	
W-2	3/27		3.80				4	1	EP		Y	7.4	9.0	1240	8.00	243		0.04	
MW-102	3/27		24.41				2	1	DB		Y	7.2	12.5	1093	1.73	86		0.29	
W-15	3/28		7.22				3	2	EP		Y	7.3	9.0	1420	3.28	213		0.01	
MW-106	3/27		8.08				2	2	EP		Y	7.0	8.5	1887	5.04	249		0.0	
W-8	3/27		6.48				3	2	EP		Y	7.3	10.3	1428	6.71	237		0.03	
MW-105	3/27		6.46				4	2	EP		Y	6.8	9.2	2180	3.37	296		0.08	
MW-103	3/28		9.81				8	2	EP		Y	7.2	10.8	1075	3.09	238		0.05	
MW-104	3/28		12.11				8	2	EP		Y	6.9	10.1	2450	3.80	226		0.07	
MW-107	3/28		10.95				8	1	EP		Y	7.3	10.4	1589	7.14	240		0.01	
MW-110	3/29		11.04				10	2	EP		Y	7.2	8.1	1806	7.03	255		0.03	
MW-113	3/29		8.93				10	6	EP		Y	7.3	8	1508	9.52	235		→	To cloudy
MW-112	3/28		10.23				10	1	EP		Y	7.5	9.5	2050	7.93	228		0.00	
MW-111	3/29		9.63				10	2	EP		Y	7.4	9.2	1908	9.29	209		0.01	
MW-109	3/29		9.32				10	6	EP		Y	6.9	9.6	2050	7.71	284		→	To cloudy
MW-107D	3/28																		
MW-110D	3/29																		

EQUIPMENT USED:

- ☐ Solinst Water Level Indicator
- ☐ Keck Interface Probe
- ☐ Alkalinity Hach Kit
- ☐ Ferrous Iron Hach Kit
- ☐ EC2O Portable Meter
- ☐ ICM Water Analyzer
- ☐ Other: _____

Comments: _____

SAMPLING METHOD

- DB - Disposable Bailer
- PP - Peristaltic Pump
- EP - Electric Pump (whale)

WATER APPEARANCE

1 - Clear
2 - Slightly Cloudy
3 - Cloudy
4 - Very Cloudy
5 - Slightly Muddy
6 - Muddy

GALLONS PER FOOT TO GET 1 CASING VOLUME

1" PVC - 0.05 gallons/ft.
2" PVC - 0.17 gallons/ft.
4" PVC - 0.66 gallons/ft.
6" PVC - 1.47 gallons/ft.

\DATAFILE\PPTFORMS\FORMENVL.PPT 2/98 SAB/jmk

McMAHON ASSOCIATES, INC. 1445 McMahon Drive/P.O. Box 1025 Neenah, WI 54956/57-1025 Phone: 920-751-4200 Fax: 920-751-4284

Groundwater Monitoring Field Form

Project Number _____

Project Name Mauthe

Location _____

Date 3-13-07

Personnel Paul Mach

Temp./Weather _____

Well	Date	Time	Depth to Water (Top of PVC) (ft)	Total Well Depth (Top of PVC) (ft)	Water Column Length (ft)	Req'd. Gals to Purge 4 Casing Volumes	Amount Purged (gal)	Water Appear. (see below)	Sampling Method (see below)	Free Product (ft)	Sampl. (Y/N)	pH	Temp °C	Conduct-ivity uS	D.O. mg/l	Redox mV	Alkalinity gpg	Ferrous Iron mg/l	Comments
PZ-5	28.61																		
PZ-6	29.93																		
PZ-7	24.91																		
PZ-8	21.90																		

EQUIPMENT USED:

- ☐ Solinst Water Level Indicator
- ☐ Keck Interface Probe
- ☐ Alkalinity Hach Kit
- ☐ Ferrous Iron Hach Kit
- ☐ EC2O Portable Meter
- ☐ ICM Water Analyzer
- ☐ Other: _____

Comments: _____

SAMPLING METHOD

- DB - Disposable Bailer
- PP - Peristaltic Pump
- EP - Electric Pump (whale)

WATER APPEARANCE

- 1 - Clear
- 2 - Slightly Cloudy
- 3 - Cloudy
- 4 - Very Cloudy
- 5 - Slightly Muddy
- 6 - Muddy

GALLONS PER FOOT TO GET 1 CASING VOLUME

- 1" PVC - 0.05 gallons/ft.
- 2" PVC - 0.17 gallons/ft.
- 4" PVC - 0.66 gallons/ft.
- 6" PVC - 1.47 gallons/ft.

\DATAFILE\PPT\FORMS\FORMENVL.PPT 2/98 SAB/mk

McMAHON ASSOCIATES, INC. 1445 McMahon Drive/P.O. Box 1025 Neenah, WI 54956/57-1025 Phone: 920-751-4200 Fax: 920-751-4284

APPENDIX D

LABORATORY ANALYTICAL RESULTS,
GROUNDWATER MONITORING WELLS

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®

Page: of 0981628

Section A Required Client Information:

Company	MCO
Address	Menasha
Email To:	
Phone 920-751-4760 Fax 920-751-4767	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Stuart Boerst
Copy To:	
Purchase Order No.:	
Project Name:	Maurice
Project Number:	

Section C Invoice Information:

Attention:	Randy Much
Company Name:	MCO
Address:	Menasha
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☑ RCRA ☐ Other_____

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☑WI ☐OTHER_____

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: Total Chrome	Vocs	Cyanide	Manganese	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	MW-101	GW	G			3/27			1			X						Y	X		X		Y	882078 1-250 mL Poly
2	MW-108					3/27			1			X							X		X			
3	W-2					3/27			1			X							X		X			
4	MW-102					3/27			1			X							X		X			
5	W-15					3/28			1			X							X		X			
6	MW-106					3/27			1			X							X		X			
7	W-8					3/27			1			X							X		X			
8	MW-105					3/27			1			X							X		X			
9	MW-103					3/28			1			X							X		X			
10	MW-104					3/28			1			X							X		X			
11	MW-107					3/28			4			X	X						XX		X			1-250 mL Poly
12	MW-107D	GW	G			3/28			4			X	X						XX		X			11

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
Randy Much	3/28		B Kempen / Pace	3/29/07	1495	
B Kempen / Pace	3/29/07	1545	[illegible]	3/29/07	1545	ROI

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Paul Much

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical®

Page: of 0981629

Section A
Required Client Information:

Company	MO
Address	Menasha
Email To:	
Phone	920-751-4760 Fax
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Susan Boerst
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	

Section C
Invoice Information:

Attention:	Randy Mack
Company Name:	
Address:	Menasha
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☑ RCRA ☐ Other_____

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

Section D
Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / -)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: Total Chrome / Manganese / VOCs / Cyanide / Zinc	Residual Chlorine (Y/N)
1	MW-112	GW	G			3/28			5			X	X	X				X X X X X	
2	MW-111					3/29			5			X	X					X X X X	
3	MW-113								5			X	X					X X X X	
4	MW-110								5			X	X					X X X X	
5	MW-110D								5			X	X					X X X X	
6	MW-109								5			X	X					X X X X	
7	TRIP added by lab 3/29/07																		
8																			
9																			
10																			
11																			
12																			

Pace Project Number 882078
Lab I.D

2-250 mL Poly 3-40
2-40 mL

Set needed not in sample plan

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Paul Mack	3/28		B Kempen Pace	3/29/07	1435
B Kempen Pace	3/29/07	1545	KC Jackson	3/29/07	1545

SAMPLE CONDITION

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

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Paul Mack

SIGNATURE of SAMPLER: Paul Mack DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

Pace Analytical®

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

Analytical Report Number: 882078

Client: MIDWEST CONTRACT OPERATIONS, INC. **Lab Contact:** Brian Basten

Project Name: MAUTHE

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
882078-001	MW-101	WATER	03/27/07
882078-002	MW-108	WATER	03/27/07
882078-003	W-2	WATER	03/27/07
882078-004	MW-102	WATER	03/27/07
882078-005	W-15	WATER	03/28/07
882078-006	MW-106	WATER	03/27/07
882078-007	W-8	WATER	03/27/07
882078-008	MW-105	WATER	03/27/07
882078-009	MW-103	WATER	03/28/07
882078-010	MW-104	WATER	03/28/07
882078-011	MW-107	WATER	03/28/07
882078-012	MW-107D	WATER	03/28/07
882078-013	MW-112	WATER	03/28/07
882078-014	MW-111	WATER	03/29/07
882078-015	MW-113	WATER	03/29/07
882078-016	MW-110	WATER	03/29/07
882078-017	MW-110D	WATER	03/29/07
882078-018	MW-109	WATER	03/29/07
882078-019	TRIP	WATER	03/29/07

Approval Signature

4-16-07
Date

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-101

Matrix Type : WATER
Collection Date : 03/27/07
Report Date : 04/16/07
Lab Sample Number : 882078-001

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	<	1.9	1.9	6.3		1	ug/L		03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		14	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-108

Matrix Type : WATER
Collection Date : 03/27/07
Report Date : 04/16/07
Lab Sample Number : 882078-002

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	<	1.9	1.9	6.3		1	ug/L		03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		1.4	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : W-2

Matrix Type : WATER
Collection Date : 03/27/07
Report Date : 04/16/07
Lab Sample Number : 882078-003

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	< 1.9	1.9	6.3		1	ug/L		03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	4.7	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-102

Matrix Type : WATER
Collection Date : 03/27/07
Report Date : 04/16/07
Lab Sample Number : 882078-004

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	<	1.9	1.9	6.3		1	ug/L		03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		230	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : W-15

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-005

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	<	1.9	1.9	6.3		1	ug/L		03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		13	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-106

Matrix Type : WATER
Collection Date : 03/27/07
Report Date : 04/16/07
Lab Sample Number : 882078-006

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	<	1.9	1.9	6.3		1	ug/L	9	03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		15	0.36	1.2		1	ug/L	9	03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : W-8

Matrix Type : WATER
Collection Date : 03/27/07
Report Date : 04/16/07
Lab Sample Number : 882078-007

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	<	1.9	1.9	6.3		1	ug/L		03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		6.0	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-105

Matrix Type : WATER
Collection Date : 03/27/07
Report Date : 04/16/07
Lab Sample Number : 882078-008

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	<	1.9	1.9	6.3		1	ug/L		03/30/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		23	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-103

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-009

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	31	1.9	6.3		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	38	0.36	1.2		1	ug/L		03/30/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-104

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-010

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	160	1.9	6.3		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	130	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-107

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-011

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	4200	1.9	6.3		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	1.7	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B

VOLATILES

Prep Date: 04/03/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 1.8	1.8	6.1		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	190	1.8	6.0		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.40	0.40	1.3		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	1.7	0.84	2.8		2	ug/L	Q	04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane	19	1.5	5.0		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene	18	1.1	3.8		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 1.5	1.5	5.0		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 1.5	1.5	4.9		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 2.0	2.0	6.6		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 1.9	1.9	6.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 1.9	1.9	6.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.7	1.7	5.8		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 1.1	1.1	3.7		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 1.7	1.7	5.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.72	0.72	2.4		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.92	0.92	3.1		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 1.7	1.7	5.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 1.7	1.7	5.8		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 1.2	1.2	4.1		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 1.9	1.9	6.3		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 1.2	1.2	4.1		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 1.7	1.7	5.7		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 1.5	1.5	4.9		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Benzene	< 0.82	0.82	2.7		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromobenzene	< 1.6	1.6	5.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromochloromethane	< 1.9	1.9	6.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromodichloromethane	< 1.1	1.1	3.7		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromoform	< 1.9	1.9	6.3		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromomethane	< 1.8	1.8	6.1		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.98	0.98	3.3		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.82	0.82	2.7		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 1.6	1.6	5.4		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroethane	< 1.9	1.9	6.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroform	< 0.74	0.74	2.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloromethane	< 0.48	0.48	1.6		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	2.1	1.7	5.5		2	ug/L	Q	04/03/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.38	0.38	1.3		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dibromomethane	< 1.2	1.2	4.0		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 2.0	2.0	6.6		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 1.5	1.5	5.1		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Ethylbenzene	< 1.1	1.1	3.6		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 1.6	1.6	5.3		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 1.3	1.3	4.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-107

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-011

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Isopropylbenzene	<	1.2	1.2	3.9		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	0.86	0.86	2.9		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	1.2	1.2	4.1		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Naphthalene	<	1.5	1.5	4.9		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	1.9	1.9	6.2		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	1.6	1.6	5.4		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	1.3	1.3	4.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	1.8	1.8	5.9		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Styrene	<	1.7	1.7	5.7		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	1.9	1.9	6.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	0.90	0.90	3.0		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Toluene	<	1.3	1.3	4.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	<	1.8	1.8	5.9		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	0.38	0.38	1.3		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Trichloroethene		340	0.96	3.2		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	0.36	0.36	1.2		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	3.6	3.6	12		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, o	<	1.7	1.7	5.5		2	ug/L		04/03/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		98	64	132		2	%		04/03/07	SW846 5030B	SW846 8260B
Toluene-d8		98	73	127		2	%		04/03/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		96	68	122		2	%		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-107D

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-012

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	5100	1.9	6.3		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	0.66	0.36	1.2		1	ug/L	Q	04/03/07	SW846 6010B	SW846 6010B

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	<	4.6	4.6	15		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane		200	4.5	15		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	<	1.0	1.0	3.3		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	<	2.1	2.1	7.0		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane		19	3.8	12		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene		20	2.8	9.5		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	<	3.8	3.8	12		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	<	3.7	3.7	12		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	<	5.0	5.0	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	<	4.8	4.8	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	<	4.8	4.8	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	<	4.4	4.4	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	<	2.8	2.8	9.3		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	<	4.1	4.1	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	<	1.8	1.8	6.0		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	<	2.3	2.3	7.7		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	<	4.1	4.1	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	<	4.4	4.4	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	<	3.0	3.0	10		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	<	4.8	4.8	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	<	3.1	3.1	10		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	<	4.2	4.2	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	<	3.7	3.7	12		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Benzene	<	2.0	2.0	6.8		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromobenzene	<	4.1	4.1	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromochloromethane	<	4.8	4.8	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromodichloromethane	<	2.8	2.8	9.3		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromoform	<	4.7	4.7	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromomethane	<	4.6	4.6	15		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	<	2.4	2.4	8.2		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorobenzene	<	2.0	2.0	6.8		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	<	4.1	4.1	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroethane	<	4.8	4.8	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroform	<	1.8	1.8	6.2		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloromethane	<	1.2	1.2	4.0		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	<	4.1	4.1	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	<	0.95	0.95	3.2		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dibromomethane	<	3.0	3.0	10		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	<	5.0	5.0	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	<	3.8	3.8	13		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Ethylbenzene	<	2.7	2.7	9.0		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Fluorotrichloromethane	<	4.0	4.0	13		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	3.4	3.4	11		5	ug/L		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-107D

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-012

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Isopropylbenzene	<	2.9	2.9	9.8		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	2.2	2.2	7.2		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	3.0	3.0	10		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Naphthalene	<	3.7	3.7	12		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	4.6	4.6	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	4.1	4.1	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	3.4	3.4	11		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	4.4	4.4	15		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Styrene	<	4.3	4.3	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	4.8	4.8	16		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	2.2	2.2	7.5		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Toluene	<	3.4	3.4	11		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	<	4.4	4.4	15		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	0.95	0.95	3.2		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Trichloroethene		380	2.4	8.0		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	0.90	0.90	3.0		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	9.0	9.0	30		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, o	<	4.1	4.1	14		5	ug/L		04/03/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		99	64	132		5	%		04/03/07	SW846 5030B	SW846 8260B
Toluene-d8		97	73	127		5	%		04/03/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		97	68	122		5	%		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-112

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-013

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	140000	19	63		10	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	110	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Zinc - Dissolved	< 20	20	67		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	0.45	0.047	0.16		5	mg/L		04/11/07	EPA 335.4	EPA 335.4

VOLATILES

Prep Date: 04/04/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 9.2	9.2	31		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	20	9.0	30		10	ug/L	Q	04/04/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.0	2.0	6.7		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 4.2	4.2	14		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 7.5	7.5	25		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	19		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 7.5	7.5	25		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 7.4	7.4	25		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 9.9	9.9	33		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 9.7	9.7	32		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 9.7	9.7	32		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.7	8.7	29		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 5.6	5.6	19		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 8.3	8.3	28		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 3.6	3.6	12		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 4.6	4.6	15		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 8.3	8.3	28		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 8.7	8.7	29		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 6.1	6.1	20		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 9.5	9.5	32		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 6.2	6.2	21		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 8.5	8.5	28		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 7.4	7.4	25		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Benzene	< 4.1	4.1	14		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromobenzene	< 8.2	8.2	27		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromochloromethane	< 9.7	9.7	32		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromodichloromethane	< 5.6	5.6	19		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromoform	< 9.4	9.4	31		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromomethane	< 9.1	9.1	30		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 4.9	4.9	16		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chlorobenzene	< 4.1	4.1	14		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 8.1	8.1	27		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloroethane	< 9.7	9.7	32		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloroform	< 3.7	3.7	12		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloromethane	< 2.4	2.4	8.0		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 8.3	8.3	28		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Dibromomethane	< 6.0	6.0	20		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 9.9	9.9	33		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Dilsopropyl Ether	< 7.6	7.6	25		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Ethylbenzene	< 5.4	5.4	18		10	ug/L		04/04/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-112

Matrix Type : WATER
Collection Date : 03/28/07
Report Date : 04/16/07
Lab Sample Number : 882078-013

VOLATILES

Prep Date: 04/04/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	<	7.9	7.9	26		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	6.7	6.7	22		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Isopropylbenzene	<	5.9	5.9	20		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	4.3	4.3	14		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	6.1	6.1	20		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Naphthalene	<	7.4	7.4	25		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	9.3	9.3	31		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	8.1	8.1	27		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	6.7	6.7	22		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	8.9	8.9	30		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Styrene	<	8.6	8.6	29		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	9.7	9.7	32		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	4.5	4.5	15		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Toluene	<	6.7	6.7	22		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	<	8.9	8.9	30		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	1.9	1.9	6.3		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Trichloroethene		940	4.8	16		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	1.8	1.8	6.0		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	18	18	60		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Xylene, o	<	8.3	8.3	28		10	ug/L		04/04/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		99	64	132		10	%		04/04/07	SW846 5030B	SW846 8260B
Toluene-d8		98	73	127		10	%		04/04/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		94	68	122		10	%		04/04/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-111

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-014

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved		2300	1.9	6.3		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		11	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Zinc - Dissolved	<	20	20	67		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved		0.031	0.0094	0.031		1	mg/L	Q	04/11/07	EPA 335.4	EPA 335.4

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	<	0.92	0.92	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane		52	0.90	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	<	0.20	0.20	0.67		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	<	0.42	0.42	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane		1.7	0.75	2.5		1	ug/L	Q	04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene		7.3	0.57	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	<	0.75	0.75	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	<	0.36	0.36	1.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	<	0.46	0.46	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	<	0.95	0.95	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	<	0.62	0.62	2.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	<	0.85	0.85	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Benzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromobenzene	<	0.82	0.82	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromochloromethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromodichloromethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromoform	<	0.94	0.94	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromomethane	<	0.91	0.91	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	<	0.49	0.49	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorobenzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroform		0.77	0.37	1.2		1	ug/L	Q	04/03/07	SW846 5030B	SW846 8260B
Chloromethane	<	0.24	0.24	0.80		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dibromomethane	<	0.60	0.60	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	<	0.76	0.76	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-111

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-014

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	<	0.79	0.79	2.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Isopropylbenzene	<	0.59	0.59	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	0.43	0.43	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Naphthalene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	0.93	0.93	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Styrene	<	0.86	0.86	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	0.45	0.45	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Trichloroethene		120	0.48	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	0.18	0.18	0.60		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	1.8	1.8	6.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		95	64	132		1	%		04/03/07	SW846 5030B	SW846 8260B
Toluene-d8		97	73	127		1	%		04/03/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		92	68	122		1	%		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-113

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-015

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved		11000	19	63		10	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		3.2	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Zinc - Dissolved	<	20	20	67		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	<	0.0094	0.0094	0.031		1	mg/L		04/11/07	EPA 335.4	EPA 335.4

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	<	0.92	0.92	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane		77	0.90	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	<	0.20	0.20	0.67		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	<	0.42	0.42	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane		10	0.75	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene		11	0.57	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	<	0.75	0.75	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	<	0.36	0.36	1.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	<	0.46	0.46	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	<	0.95	0.95	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	<	0.62	0.62	2.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	<	0.85	0.85	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Benzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromobenzene	<	0.82	0.82	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromochloromethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromodichloromethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromoform	<	0.94	0.94	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromomethane	<	0.91	0.91	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	<	0.49	0.49	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorobenzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroform	<	0.37	0.37	1.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloromethane	<	0.24	0.24	0.80		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene		1.6	0.83	2.8		1	ug/L	Q	04/03/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dibromomethane	<	0.60	0.60	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	<	0.76	0.76	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-113

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-015

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	<	0.79	0.79	2.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Isopropylbenzene	<	0.59	0.59	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	0.43	0.43	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Naphthalene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	0.93	0.93	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Styrene	<	0.86	0.86	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	0.45	0.45	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Trichloroethene		46	0.48	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	0.18	0.18	0.60		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	1.8	1.8	6.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		99	64	132		1	%		04/03/07	SW846 5030B	SW846 8260B
Toluene-d8		97	73	127		1	%		04/03/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		92	68	122		1	%		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-110

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-016

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	47000	19	63		10	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	84	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Zinc - Dissolved	< 20	20	67		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	0.066	0.0094	0.031		1	mg/L		04/11/07	EPA 335.4	EPA 335.4

VOLATILES

Prep Date: 04/04/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 18	18	61		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	1500	18	60		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 4.0	4.0	13		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 8.4	8.4	28		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane	250	15	50		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene	340	11	38		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 15	15	50		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 15	15	49		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 20	20	66		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 17	17	58		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 11	11	37		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 17	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 7.2	7.2	24		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 9.2	9.2	31		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 17	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 17	17	58		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 12	12	41		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 19	19	63		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 12	12	41		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 17	17	57		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 15	15	49		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Benzene	< 8.2	8.2	27		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromobenzene	< 16	16	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromochloromethane	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromodichloromethane	< 11	11	37		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromoform	< 19	19	63		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromomethane	< 18	18	61		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 9.8	9.8	33		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chlorobenzene	< 8.2	8.2	27		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 16	16	54		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloroethane	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloroform	< 7.4	7.4	25		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloromethane	< 4.8	4.8	16		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	59	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 3.8	3.8	13		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Dibromomethane	< 12	12	40		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 20	20	66		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 15	15	51		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Ethylbenzene	< 11	11	36		20	ug/L		04/04/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-110

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-016

VOLATILES

Prep Date: 04/04/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	<	16	16	53		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	13	13	45		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Isopropylbenzene	<	12	12	39		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	8.6	8.6	29		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	12	12	41		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Naphthalene	<	15	15	49		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	19	19	62		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	16	16	54		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	13	13	45		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	18	18	59		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Styrene	<	17	17	57		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	9.0	9.0	30		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Toluene	<	13	13	45		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene		24	18	59		20	ug/L	Q	04/04/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	3.8	3.8	13		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Trichloroethene		32	9.6	32		20	ug/L	Q	04/04/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	3.6	3.6	12		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	36	36	120		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Xylene, o	<	17	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		97	64	132		20	%		04/04/07	SW846 5030B	SW846 8260B
Toluene-d8		98	73	127		20	%		04/04/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		91	68	122		20	%		04/04/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-110D

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-017

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	49000	19	63		10	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved	76	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Zinc - Dissolved	< 20	20	67		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	0.073	0.0094	0.031		1	mg/L		04/11/07	EPA 335.4	EPA 335.4

VOLATILES

Prep Date: 04/04/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 18	18	61		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	1500	18	60		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 4.0	4.0	13		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 8.4	8.4	28		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane	250	15	50		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene	340	11	38		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 15	15	50		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 15	15	49		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 20	20	66		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 17	17	58		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 11	11	37		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 17	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 7.2	7.2	24		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 9.2	9.2	31		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 17	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 17	17	58		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 12	12	41		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 19	19	63		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 12	12	41		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 17	17	57		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 15	15	49		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Benzene	< 8.2	8.2	27		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromobenzene	< 16	16	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromochloromethane	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromodichloromethane	< 11	11	37		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromoform	< 19	19	63		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Bromomethane	< 18	18	61		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 9.8	9.8	33		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chlorobenzene	< 8.2	8.2	27		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 16	16	54		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloroethane	< 19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloroform	< 7.4	7.4	25		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Chloromethane	< 4.8	4.8	16		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	59	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 3.8	3.8	13		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Dibromomethane	< 12	12	40		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 20	20	66		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 15	15	51		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Ethylbenzene	< 11	11	36		20	ug/L		04/04/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-110D

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-017

VOLATILES

Prep Date: 04/04/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	<	16	16	53		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	13	13	45		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Isopropylbenzene	<	12	12	39		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	8.6	8.6	29		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	12	12	41		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Naphthalene	<	15	15	49		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	19	19	62		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	16	16	54		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	13	13	45		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	18	18	59		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Styrene	<	17	17	57		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	19	19	65		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	9.0	9.0	30		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Toluene	<	13	13	45		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene		28	18	59		20	ug/L	Q	04/04/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	3.8	3.8	13		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Trichloroethene		28	9.6	32		20	ug/L	Q	04/04/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	3.6	3.6	12		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	36	36	120		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Xylene, o	<	17	17	55		20	ug/L		04/04/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		94	64	132		20	%		04/04/07	SW846 5030B	SW846 8260B
Toluene-d8		97	73	127		20	%		04/04/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		90	68	122		20	%		04/04/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-109

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-018

INORGANICS

Test		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved		2700	1.9	6.3		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Manganese - Dissolved		15	0.36	1.2		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Zinc - Dissolved	<	20	20	67		1	ug/L		04/03/07	SW846 6010B	SW846 6010B
Cyanide, Total - Dissolved	<	0.0094	0.0094	0.031		1	mg/L	N	04/11/07	EPA 335.4	EPA 335.4

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	<	0.92	0.92	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane		27	0.90	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	<	0.20	0.20	0.67		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	<	0.42	0.42	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane		0.85	0.75	2.5		1	ug/L	Q	04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene		1.3	0.57	1.9		1	ug/L	Q	04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	<	0.75	0.75	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	<	0.36	0.36	1.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	<	0.46	0.46	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	<	0.95	0.95	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	<	0.62	0.62	2.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	<	0.85	0.85	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Benzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromobenzene	<	0.82	0.82	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromochloromethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromodichloromethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromoform	<	0.94	0.94	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromomethane	<	0.91	0.91	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	<	0.49	0.49	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorobenzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroform	<	0.37	0.37	1.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloromethane	<	0.24	0.24	0.80		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dibromomethane	<	0.60	0.60	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	<	0.76	0.76	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : MW-109

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-018

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	<	0.79	0.79	2.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Isopropylbenzene	<	0.59	0.59	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methylene Chloride	<	0.43	0.43	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Naphthalene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	0.93	0.93	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Propylbenzene	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Styrene	<	0.86	0.86	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	0.45	0.45	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Trichloroethene		37	0.48	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	0.18	0.18	0.60		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	1.8	1.8	6.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		97	64	132		1	%		04/03/07	SW846 5030B	SW846 8260B
Toluene-d8		96	73	127		1	%		04/03/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		96	68	122		1	%		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : TRIP

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-019

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	<	0.92	0.92	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	<	0.90	0.90	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	<	0.20	0.20	0.67		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	<	0.42	0.42	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethane	<	0.75	0.75	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloroethene	<	0.57	0.57	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,1-Dichloropropene	<	0.75	0.75	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dibromoethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloroethane	<	0.36	0.36	1.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,2-Dichloropropane	<	0.46	0.46	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	<	0.87	0.87	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,3-Dichloropropane	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	<	0.95	0.95	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2,2-Dichloropropane	<	0.62	0.62	2.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
2-Chlorotoluene	<	0.85	0.85	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
4-Chlorotoluene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Benzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromobenzene	<	0.82	0.82	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromochloromethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromodichloromethane	<	0.56	0.56	1.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromoform	<	0.94	0.94	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Bromomethane	<	0.91	0.91	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Carbon Tetrachloride	<	0.49	0.49	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorobenzene	<	0.41	0.41	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chlorodibromomethane	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroethane	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloroform	<	0.37	0.37	1.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Chloromethane	<	0.24	0.24	0.80		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dibromomethane	<	0.60	0.60	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	<	0.99	0.99	3.3		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Diisopropyl Ether	<	0.76	0.76	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Ethylbenzene	<	0.54	0.54	1.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Fluorotrichloromethane	<	0.79	0.79	2.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Hexachlorobutadiene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Isopropylbenzene	<	0.59	0.59	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methylene Chloride		1.7	0.43	1.4		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	<	0.61	0.61	2.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Naphthalene	<	0.74	0.74	2.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
n-Butylbenzene	<	0.93	0.93	3.1		1	ug/L		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Analytical Report Number: 882078

Client : MIDWEST CONTRACT OPERATIONS, INC.
Project Name : MAUTHE
Project Number :
Field ID : TRIP

Matrix Type : WATER
Collection Date : 03/29/07
Report Date : 04/16/07
Lab Sample Number : 882078-019

VOLATILES

Prep Date: 04/03/07

Analyte		Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	<	0.81	0.81	2.7		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
p-Isopropyltoluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
s-Butylbenzene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Styrene	<	0.86	0.86	2.9		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
t-Butylbenzene	<	0.97	0.97	3.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Tetrachloroethene	<	0.45	0.45	1.5		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Toluene	<	0.67	0.67	2.2		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	<	0.89	0.89	3.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	<	0.19	0.19	0.63		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Trichloroethene	<	0.48	0.48	1.6		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Vinyl Chloride	<	0.18	0.18	0.60		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, m + p	<	1.8	1.8	6.0		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Xylene, o	<	0.83	0.83	2.8		1	ug/L		04/03/07	SW846 5030B	SW846 8260B
Surrogate			**LCL**	**UCL**							
4-Bromofluorobenzene		98	64	132		1	%		04/03/07	SW846 5030B	SW846 8260B
Toluene-d8		97	73	127		1	%		04/03/07	SW846 5030B	SW846 8260B
Dibromofluoromethane		94	68	122		1	%		04/03/07	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

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

Lab Number	TestGroupID	Field ID	Comment
882078-006	M-*-D	MW-106	9 - Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Qualifier Codes

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

Pace Analytical Services, Inc.

Analysis Summary by Laboratory

1241 Bellevue Street
Green Bay, WI 54302

Test Group Name	882078-001	882078-002	882078-003	882078-004	882078-005	882078-006	882078-007	882078-008	882078-009	882078-010	882078-011	882078-012	882078-013	882078-014	882078-015	882078-016	882078-017	882078-018	882078-019
CHROMIUM - DISSOLVED	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
CYANIDE, TOTAL - DISSOLVED													B	B	B	B	B	B	
MANGANESE - DISSOLVED	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
VOLATILES											G	G	G	G	G	G	G	G	G
ZINC - DISSOLVED													B	B	B	B	B	B	

Code	WI Certification
B	405132750 / DATCP: 105-444
G	405132750

Sample Condition Upon Receipt

Pace Analytical

Client Name: MCO Project # 882078

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

Tracking #: _____

Optional: Proj. Due Date: N/A Proj. Name: _____

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

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

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

Cooler Temperature ROI Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/29/07 KJL
VMH 3/29/07

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A KJL	11. REQUESTING TOTAL CHROME- VOLUME IS FILTERED ACCORDING TO C.O.C. 3/29/07 KJL
Sample Labels match COC:	☐Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	13. Added 1.0mL HNO_3 to MW-106 3/29/07 KJL 1711 0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☒No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed KL Lot # of added preservative A10040
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☒Yes	☐No	☐N/A	16. TRIP ADDED TO C.O.C. BY LAB 3/29/07 KJL
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Everything is filtered except VOC per PM W 3/30/07

Project Manager Review: LW **Date:** 3/30/07

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

APPENDIX E

GROUNDWATER ELEVATIONS VS. TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-110 & MW-113

APPENDIX E
GROUNDWATER ELEVATIONS VERSUS TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-110 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Date Measured	Groundwater Elevation (feet)
MW-102	02/01/97	780.72
	05/01/97	780.89
	09/01/97	780.79
	12/01/97	780.95
	03/01/98	780.47
	06/01/98	780.72
	10/27/98	780.34
	02/08/99	780.61
	06/08/99	780.86
	09/13/99	780.75
	12/15/99	780.18
	03/13/00	780.45
	06/22/00	780.76
	09/27/00	780.80
	12/19/00	780.39
	03/01/01	778.44
	06/19/01	781.10
	09/24/01	780.57
	12/05/01	780.37
	03/19/02	780.70
	06/20/02	781.40
	09/18/02	779.95
	12/17/03	779.15
	03/24/03	780.65
	06/10/03	781.36
	09/10/03	780.39
	12/10/03	781.15
	03/23/04	780.81
	07/09/04	780.85
	09/21/04	779.72
	03/29/05	783.13
	06/20/05	780.56
	09/21/05	779.66
	03/21/06	780.98
	06/28/06	780.42
	09/20/06	779.22
	12/19/06	779.11
	03/13/07	779.96
MW-103	02/01/97	795.29
	05/01/97	791.83
	09/01/97	789.60
	12/01/97	787.78
	03/01/98	791.03
	06/01/98	789.13
	10/27/98	791.78
	02/08/99	793.50
	06/08/99	795.05
	09/13/99	793.95
	12/15/99	791.06
	03/13/00	794.07
	06/22/00	795.52
	09/27/00	795.98
	12/19/00	792.96
	03/01/01	794.59
	06/19/01	798.22
	09/24/01	793.94
	12/05/01	792.61
	03/19/02	798.78
	06/20/02	796.32
	09/18/02	794.74
	12/17/02	790.73
	03/24/03	796.11
	06/10/03	795.97
	09/10/03	794.14
	12/10/03	795.65
	03/23/04	797.73
	07/09/04	790.83
	09/21/04	793.44
	03/29/05	0.00
	06/20/05	794.19
	09/21/05	794.04
	03/21/06	795.87
	06/28/06	793.99
	09/20/06	792.51
	12/20/06	793.38
	03/13/07	793.83

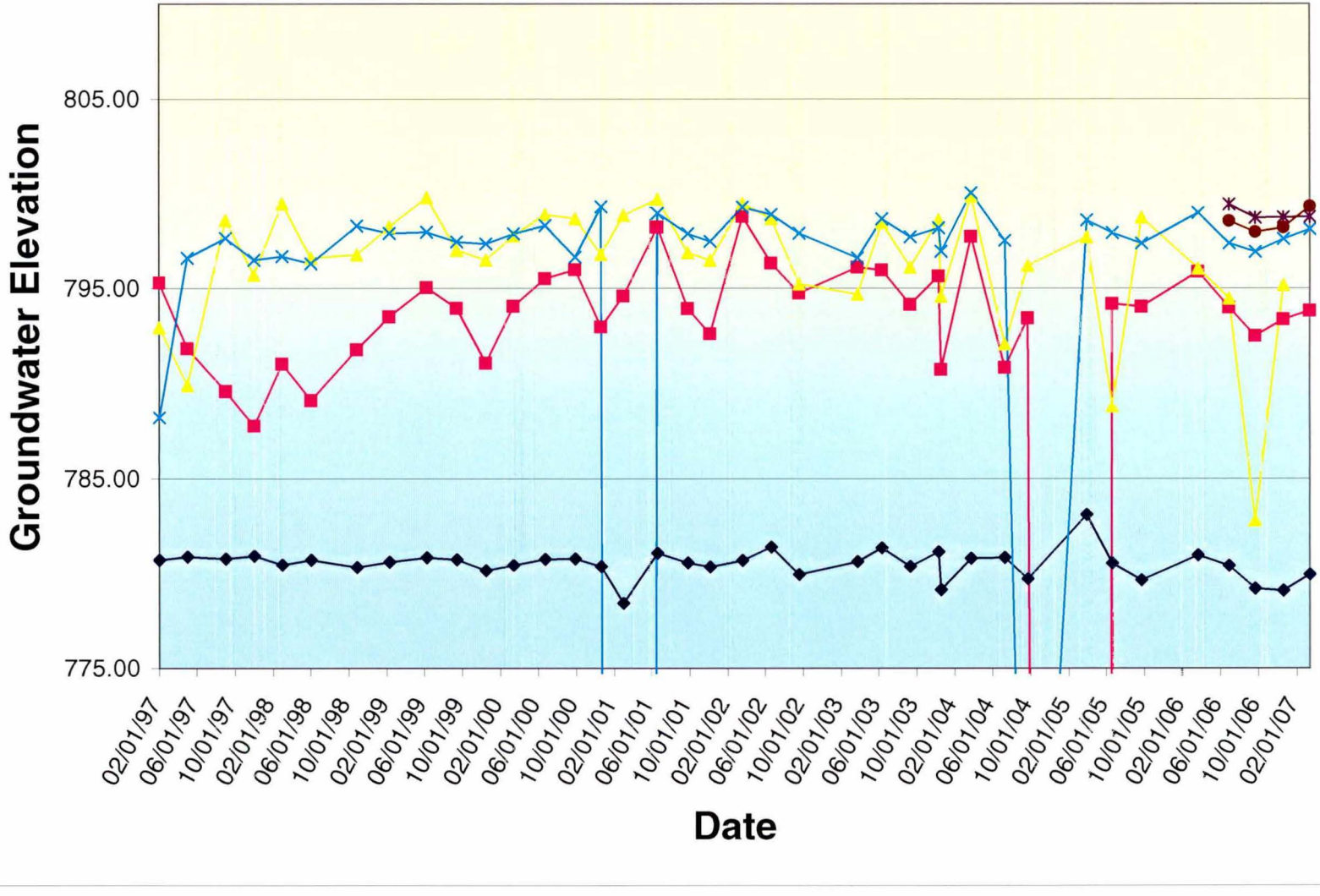
APPENDIX E
GROUNDWATER ELEVATIONS VERSUS TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-110 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Date Measured	Groundwater Elevation (feet)
MW-104	02/01/97	792.94
	05/01/97	789.91
	09/01/97	798.59
	12/01/97	795.70
	03/01/98	799.46
	06/01/98	796.60
	10/27/98	796.77
	02/08/99	798.24
	06/08/99	799.79
	09/13/99	797.00
	12/15/99	796.50
	03/13/00	797.77
	06/22/00	798.88
	09/27/00	798.67
	12/19/00	796.79
	03/01/01	798.84
	06/19/01	799.71
	09/24/01	796.89
	12/05/01	796.47
	03/19/02	799.46
	06/20/02	798.68
	09/18/02	795.23
	12/17/02	794.58
	03/24/03	794.68
	06/10/03	798.47
	09/10/03	796.11
	12/10/03	798.62
	03/23/04	799.84
	09/21/04	792.07
	03/29/05	796.19
	06/20/05	797.71
	09/21/05	788.83
	03/21/06	798.75
	06/28/06	796.05
	09/20/06	794.47
	12/20/06	782.82
	03/13/07	795.17
MW-107	02/01/97	788.23
	05/01/97	796.60
	09/01/97	797.64
	12/01/97	796.49
	03/01/98	796.68
	06/01/98	796.31
	10/27/98	798.30
	02/08/99	797.90
	06/08/99	797.97
	09/13/99	797.46
	12/15/99	797.35
	03/13/00	797.88
	06/22/00	798.32
	09/27/00	796.65
	12/19/00	799.29
	03/01/01 *	0.00
	06/19/01	798.96
	09/24/01	797.88
	12/05/01	797.47
	03/19/02	799.27
	06/20/02	798.88
	09/18/02	797.90
	12/17/02	796.95
	03/24/03	796.60
	06/10/03	798.66
	09/10/03	797.72
	12/10/03	798.18
	03/23/04	800.02
	07/09/04	797.53
	09/21/04	746.51
	03/29/05	798.58
	06/20/05	797.92
	09/21/05	797.37
	03/21/06	798.97
	06/28/06	797.37
	09/20/06	796.92
	12/19/06	797.61
	03/13/07	798.11

APPENDIX E
GROUNDWATER ELEVATIONS VERSUS TIME GRAPHS
MW-102, MW-103, MW-104, MW-107, MW-110 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Date Measured	Groundwater Elevation (feet)
MW-110	06/21/06	799.42
	09/20/06	798.72
	12/19/06	798.75
	03/13/07	798.77
MW-113	06/21/06	798.55
	09/20/06	797.97
	12/19/06	798.21
	03/13/07	799.31

GROUNDWATER ELEVATIONS VS. TIME GRAPHS



APPENDIX F

CHROMIUM VS. TIME GRAPHS
MW-103, MW-104, MW-107, MW-109, MW-110, MW-111, MW-112 & MW-113

APPENDIX F

CHROMIUM VERSUS TIME GRAPHS
MW-103, MW-104, MW-107, MW-109, MW-110, MW-112 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Sample Date	Chromium (ug/l)
MW-103	02/20/97	1,300.00
	05/27/97	160.00
	09/18/97	35.20
	12/12/97	16.30
	03/25/98	15.50
	06/10/98	57.60
	10/27/98	6.30
	06/08/99	87.00
	09/13/99	720.00
	12/15/99	260.00
	03/13/00	600.00
	06/22/00	130.00
	09/27/00	280.00
	12/19/01	180.00
	03/01/01	49.00
	06/19/01	11.00
	09/24/01	12.00
	12/05/01	2.90
	03/19/02	73.00
	06/20/02	14.00
	09/18/02	6.50
	12/17/02	6.20
	03/24/03	350.00
	06/10/03	150.00
	09/10/03	9.10
	12/10/03	7.70
	03/24/04	5.60
	07/09/04	11.00
	09/22/04	39.00
	03/29/05	220.00
	06/22/05	240.00
	09/21/05	110.00
	03/23/06	16.00
	06/28/06	40.00
	09/20/06	45.00
	12/20/06	15.00
	03/28/07	31.00

APPENDIX F

CHROMIUM VERSUS TIME GRAPHS
MW-103, MW-104, MW-107, MW-109, MW-110, MW-112 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Sample Date	Chromium (ug/l)
MW-104	02/20/97	5.90
	05/27/97	6.90
	09/18/97	35.60
	12/12/97	61.80
	03/25/98	66.80
	06/10/98	219.00
	10/27/98	150.00
	02/09/99	94.00
	06/08/99	62.00
	09/13/99	80.00
	12/15/99	170.00
	03/13/00	300.00
	06/22/00	210.00
	09/27/00	510.00
	12/19/01	790.00
	03/01/01	840.00
	06/19/01	680.00
	09/24/01	310.00
	12/05/01	390.00
	03/19/02	430.00
	06/20/02	490.00
	09/18/02	410.00
	12/17/02	240.00
	03/24/03	180.00
	06/10/03	420.00
	09/10/03	1,200.00
	12/10/03	790.00
	03/24/04	550.00
	07/09/04	370.00
	09/22/04	87.00
	03/29/05	260.00
	06/22/05	280.00
	09/21/05	17.00
	03/23/06	66.00
	06/28/06	76.00
	09/20/06	2.80
	12/20/06	8.40
	03/28/07	160.00

APPENDIX F

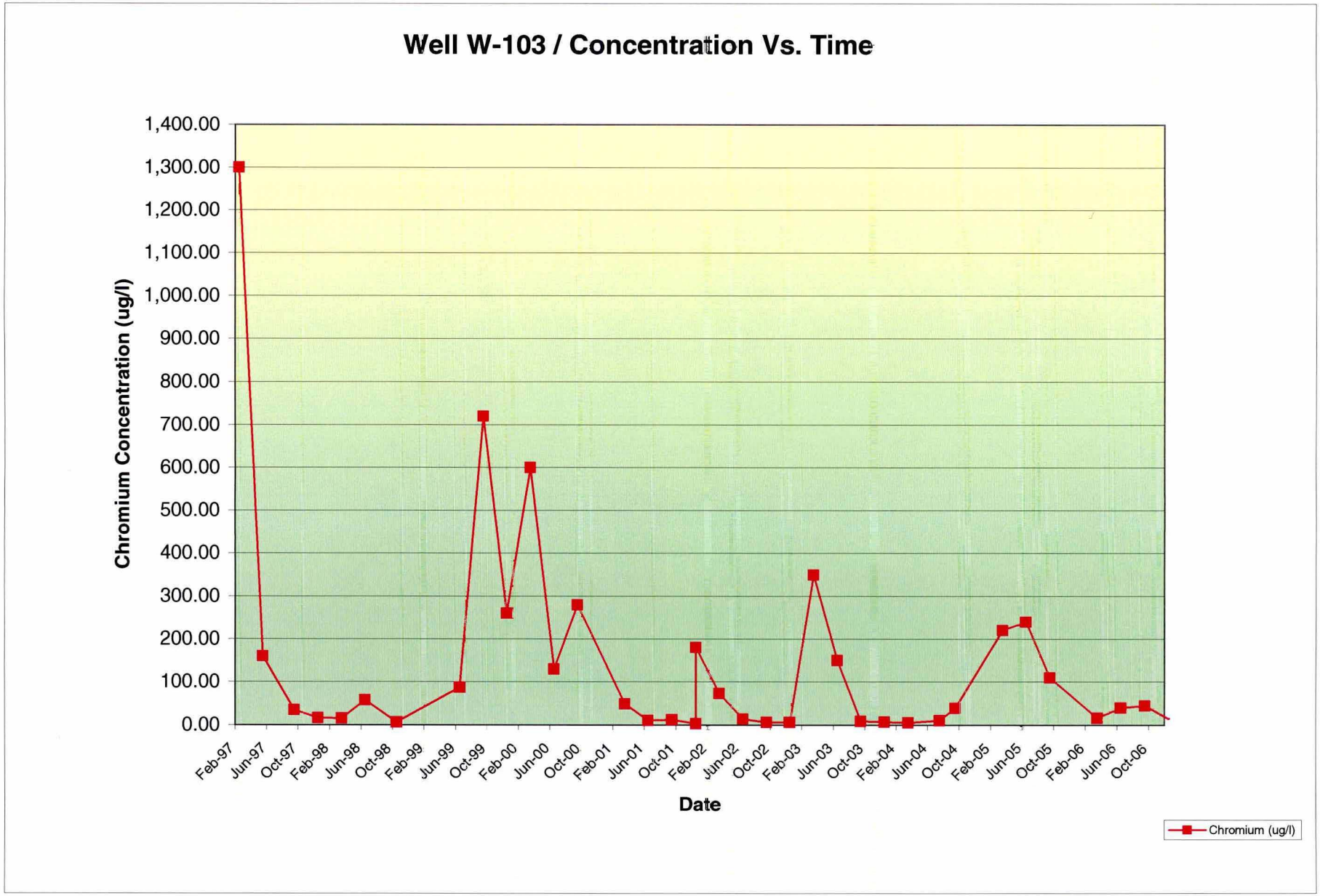
CHROMIUM VERSUS TIME GRAPHS
MW-103, MW-104, MW-107, MW-109, MW-110, MW-112 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Sample Date	Chromium (ug/l)
MW-107	02/20/97	2,000.00
	05/27/97	3,600.00
	09/18/97	2,670.00
	12/12/97	2,310.00
	03/25/98	11,200.00
	06/10/98	6,240.00
	10/27/98	7,100.00
	02/09/99	3,200.00
	06/08/99	5,800.00
	09/13/99	4,000.00
	12/15/99	14,000.00
	03/13/00	8,000.00
	06/30/00	14,000.00
	09/27/00	11,000.00
	12/19/00	10,000.00
	03/01/01	5,000.00
	06/19/01	8,200.00
	09/24/01	5,300.00
	12/05/01	6,200.00
	03/19/02	7,000.00
	06/20/02	7,000.00
	09/18/02	4,300.00
	12/17/02	3,700.00
	03/24/03	3,800.00
	06/10/03	5,900.00
	09/10/03	5,200.00
	12/10/03	5,200.00
	03/24/04	3,900.00
	07/09/04	3,400.00
	09/22/04	4,100.00
	03/29/05	3,600.00
	06/22/05	3,300.00
	09/21/05	2,500.00
	03/23/06	3,200.00
	06/28/06	3,600.00
	09/20/06	4,100.00
	12/19/06	2,700.00
	03/28/07	4,200.00

APPENDIX F

CHROMIUM VERSUS TIME GRAPHS
MW-103, MW-104, MW-107, MW-109, MW-110, MW-112 & MW-113
Quarterly Progress Report #30 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Sample Date	Chromium (ug/l)
MW-109	006/21/06	1,300.00
	9/20/2006	450.00
	12/19/2006	550.00
	3/29/2007	2,700.00
MW-110	06/21/06	24,000.00
	09/20/06	15,000.00
	12/19/06	15,000.00
	03/29/07	47,000.00
MW-111	06/21/06	1,400.00
	09/20/06	22.00
	12/19/06	6.70
	03/29/07	2,300.00
MW-112	06/21/06	130,000.00
	09/20/06	69,000.00
	12/19/06	55,000.00
	03/28/07	140,000.00
MW-113	06/21/06	25,000.00
	09/20/06	31,000.00
	12/19/06	21,000.00
	03/29/06	11,000.00
Maximum Contaminant Level (MCL)		100.00
Enforcement Standard Chapter NR 140.10		100.00
Preventive Action Limit Chapter NR 140.10		10.00


Well W-103 / Concentration Vs. Time
Chromium Concentration (ug/l)
1,400.00
1,300.00
1,200.00
1,100.00
1,000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Feb-97
Jun-97
Oct-97
Feb-98
Jun-98
Oct-98
Feb-99
Jun-99
Oct-99
Feb-00
Jun-00
Oct-00
Feb-01
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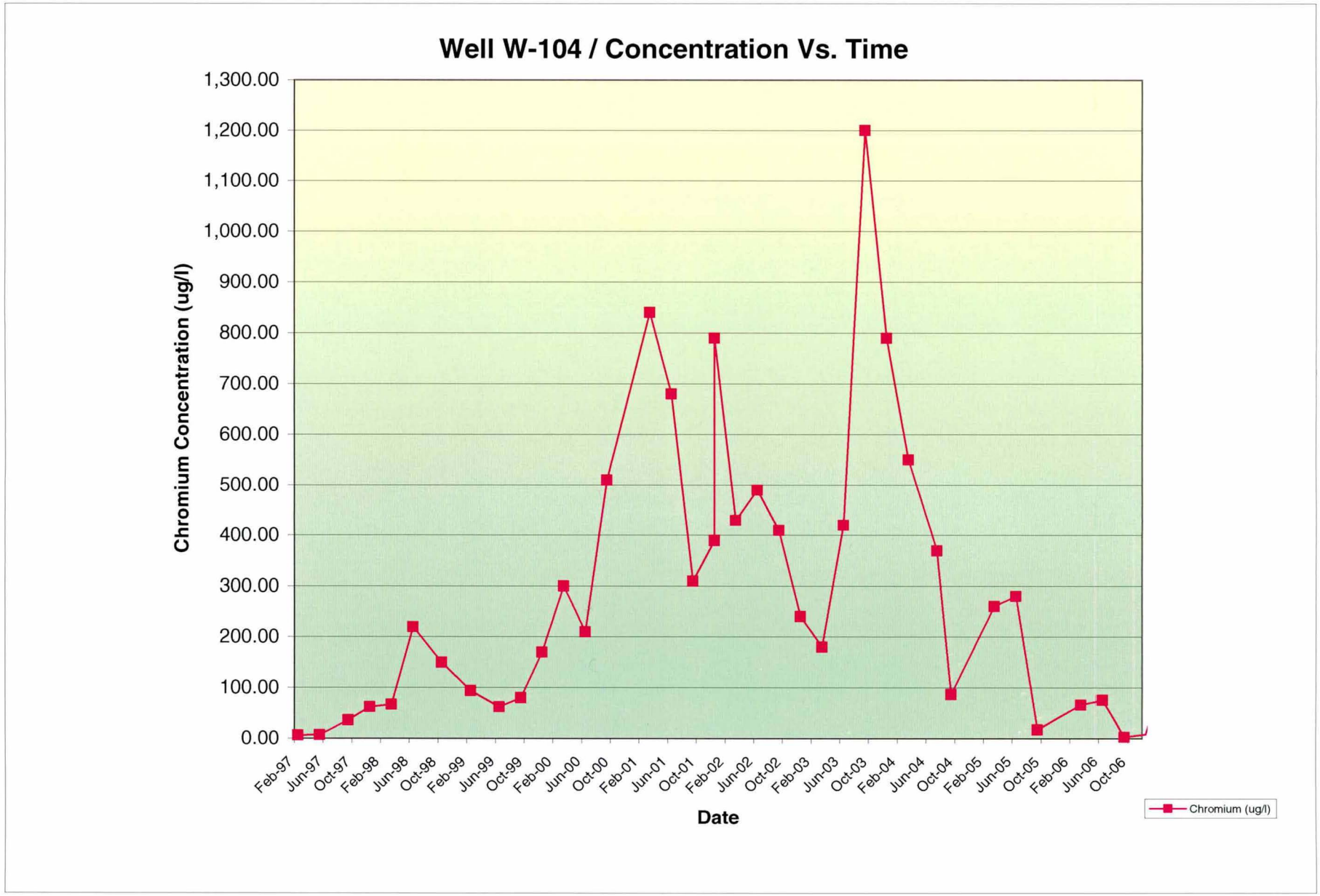
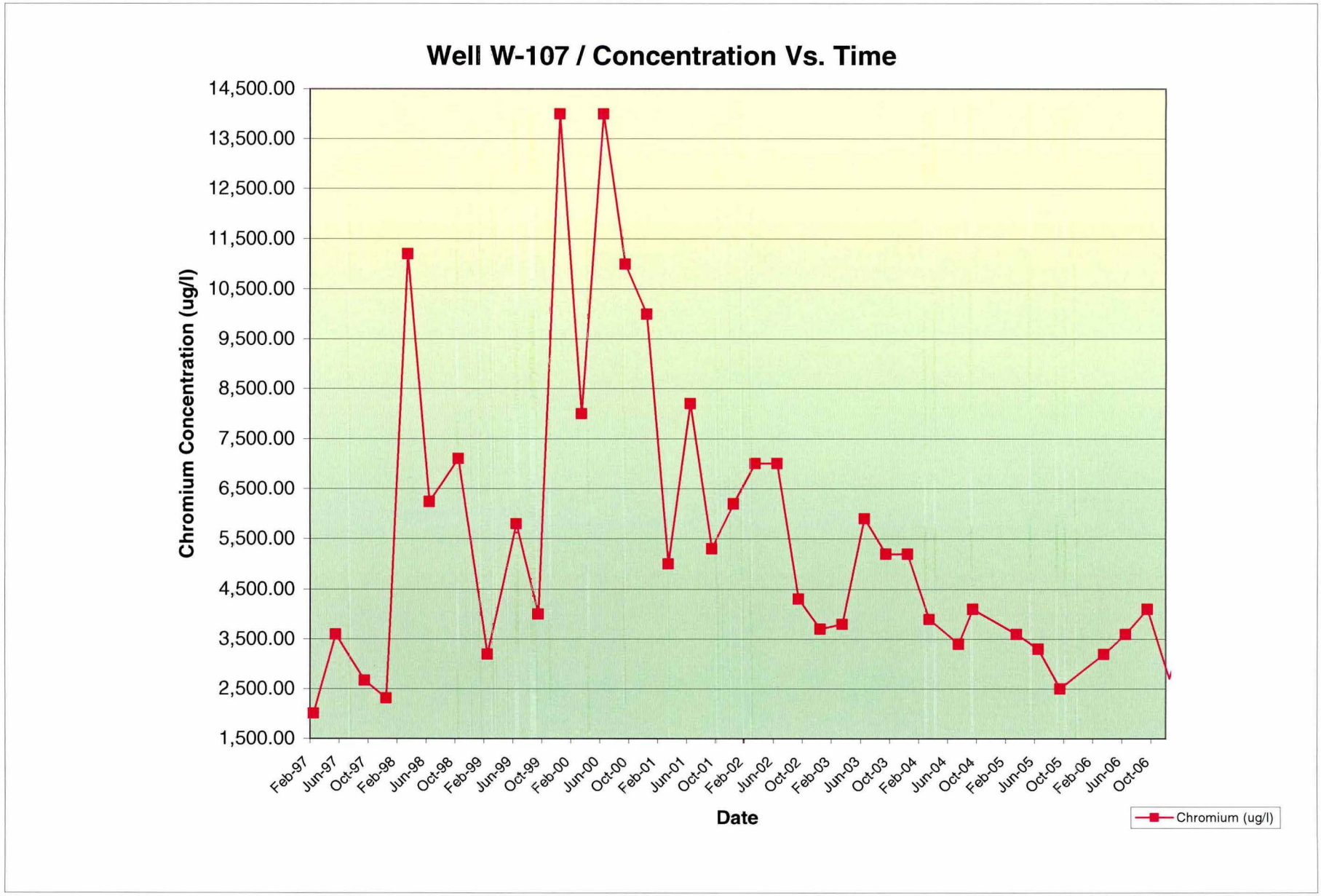
Oct-02
Feb-03
Jun-03
Oct-03
Feb-04
Jun-04
Oct-04
Feb-05
Jun-05
Oct-05
Feb-06
Jun-06
Oct-06
Date
Chromium (ug/l)


Well W-104 / Concentration Vs. Time
Chromium Concentration (ug/l)
1,300.00
1,200.00
1,100.00
1,000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Feb-97
Jun-97
Oct-97
Feb-98
Jun-98
Oct-98
Feb-99
Jun-99
Oct-99
Feb-00
Jun-00
Oct-00
Feb-01
Jun-01
Oct-01
Feb-02
Jun-02
Oct-02
Feb-03
Jun-03
Oct-03
Feb-04
Jun-04
Oct-04
Feb-05
Jun-05
Oct-05
Feb-06
Jun-06
Oct-06
Date
Chromium (ug/l)


Well W-107 / Concentration Vs. Time
Chromium Concentration (ug/l)
14,500.00
13,500.00
12,500.00
11,500.00
10,500.00
9,500.00
8,500.00
7,500.00
6,500.00
5,500.00
4,500.00
3,500.00
2,500.00
1,500.00
Feb-97
Jun-97
Oct-97
Feb-98
Jun-98
Oct-98
Feb-99
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Oct-99
Feb-00
Jun-00
Oct-00
Feb-01
Jun-01
Oct-01
Feb-02
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Feb-03
Jun-03
Oct-03
Feb-04
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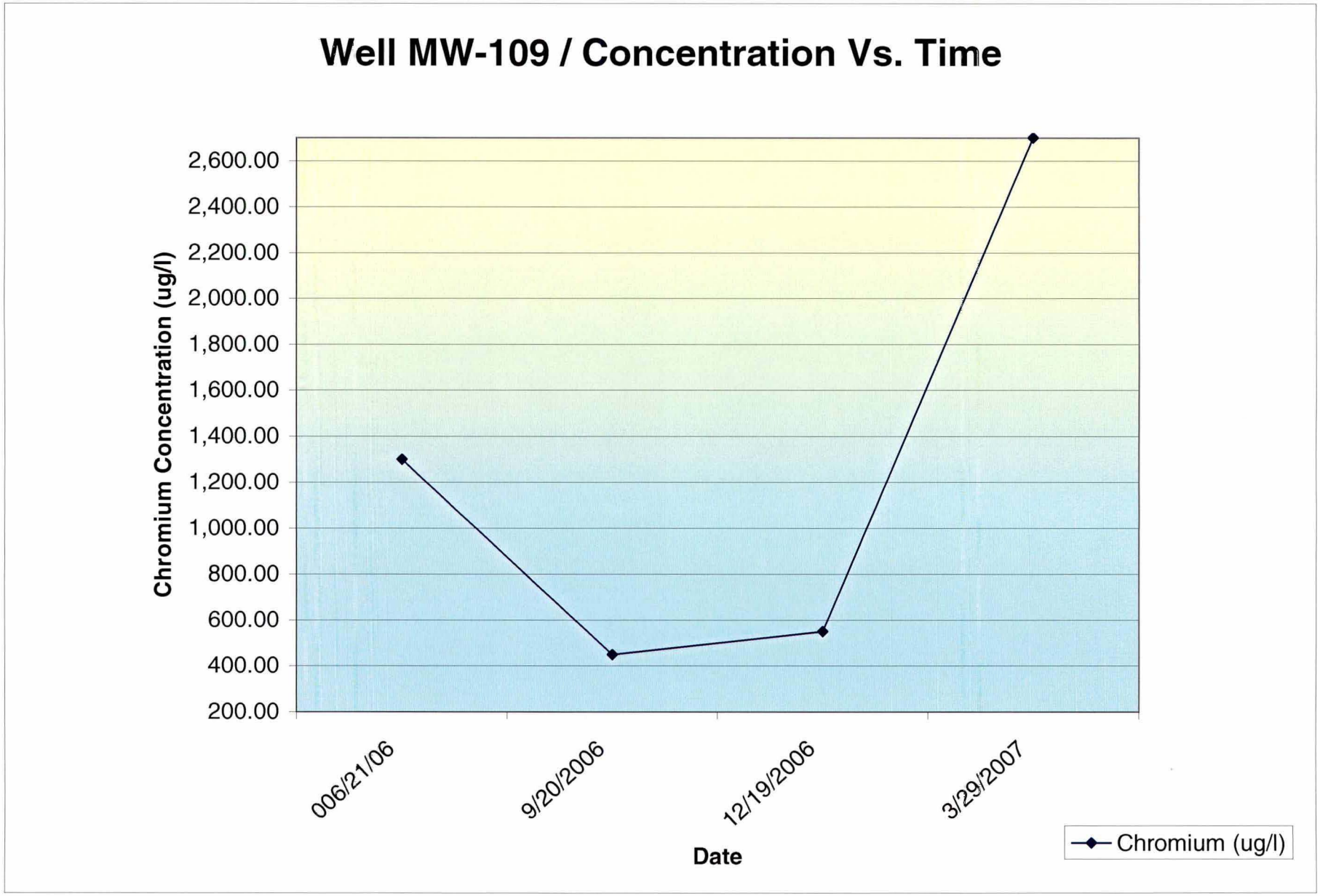
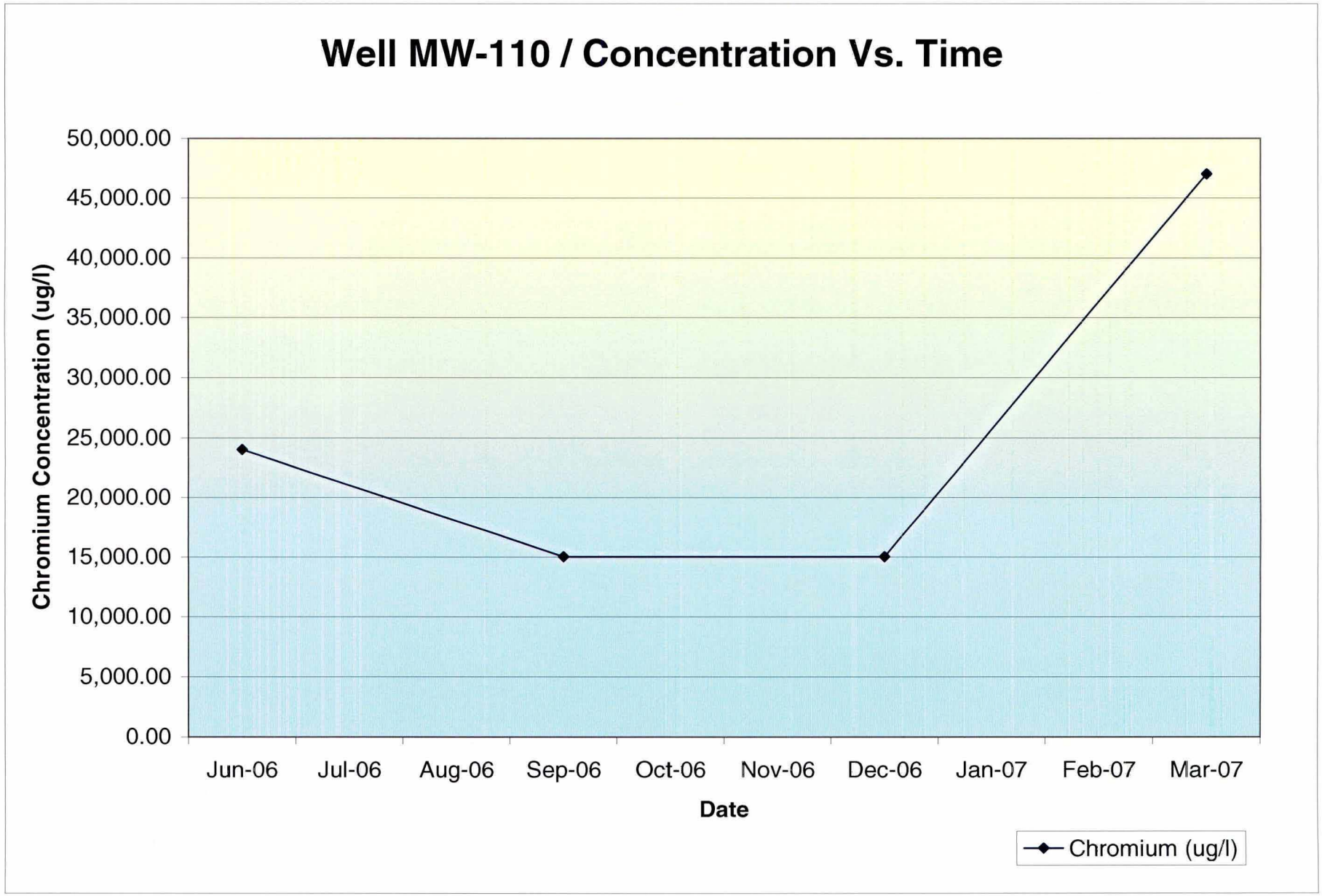
Oct-04
Feb-05
Jun-05
Oct-05
Feb-06
Jun-06
Oct-06
Date
Chromium (ug/l)


Well MW-109 / Concentration Vs. Time
Chromium Concentration (ug/l)
2,600.00
2,400.00
2,200.00
2,000.00
1,800.00
1,600.00
1,400.00
1,200.00
1,000.00
800.00
600.00
400.00
200.00
006/21/06
9/20/2006
12/19/2006
3/29/2007
Date
Chromium (ug/l)


Well MW-110 / Concentration Vs. Time
Chromium Concentration (ug/l)
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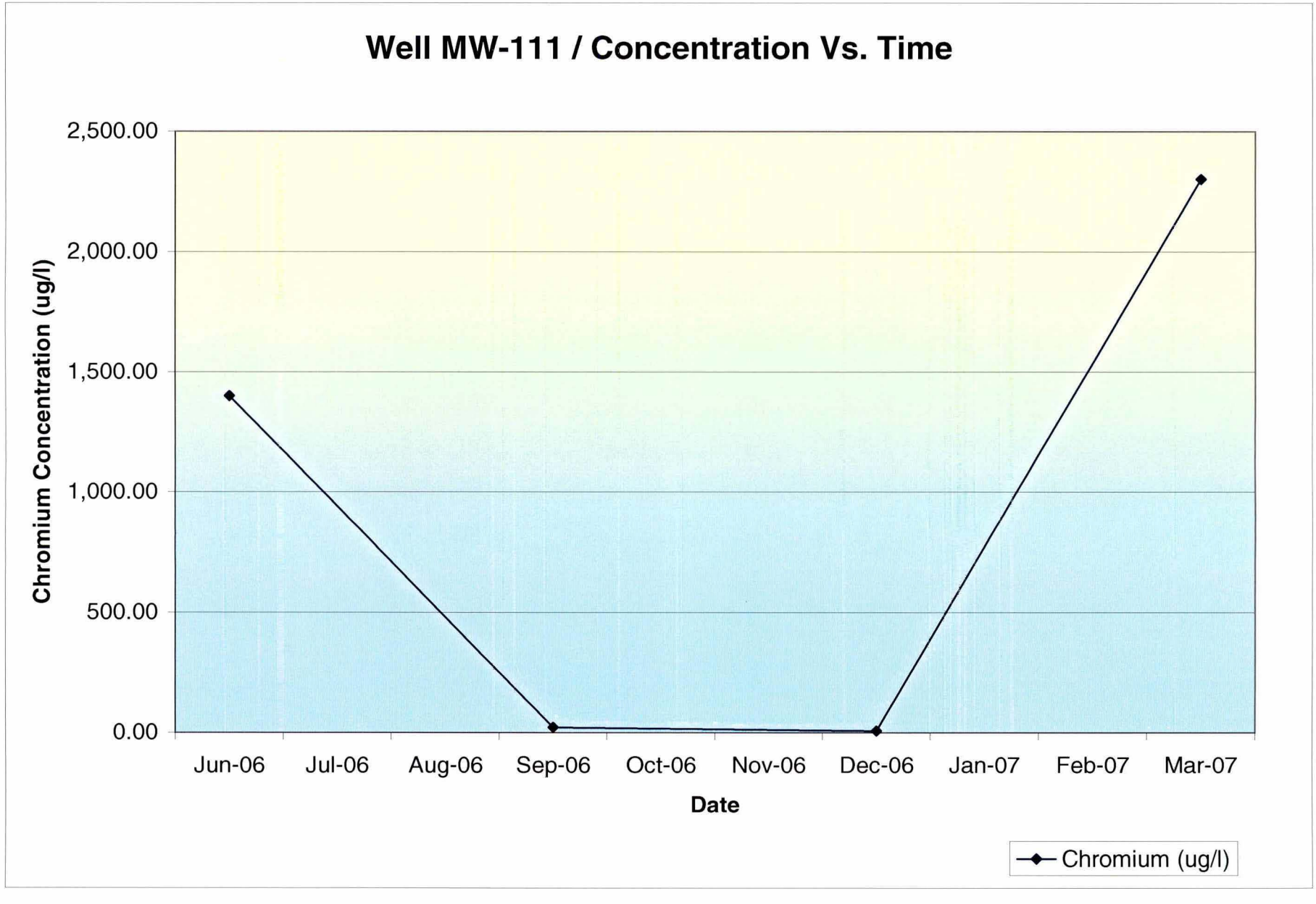
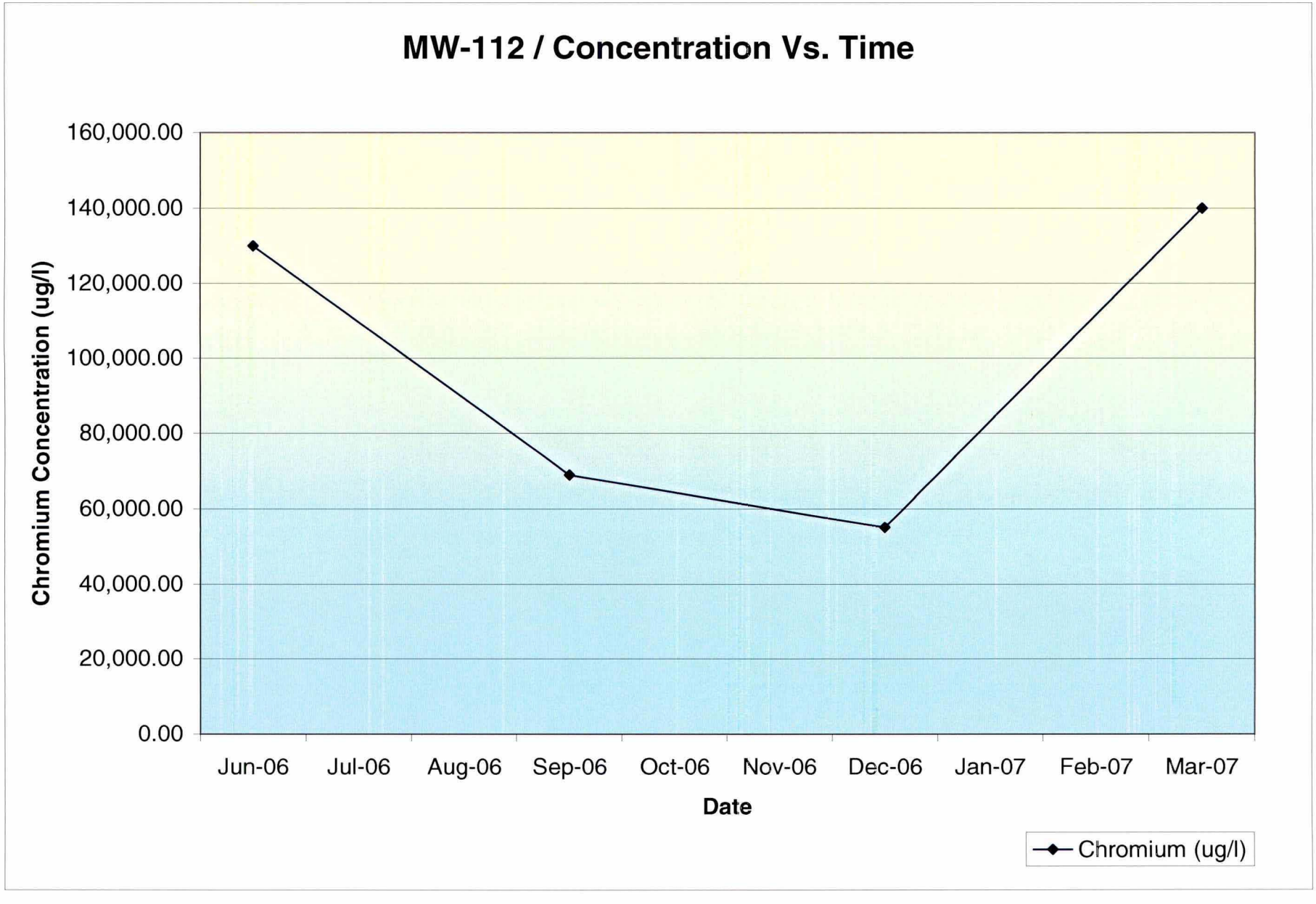
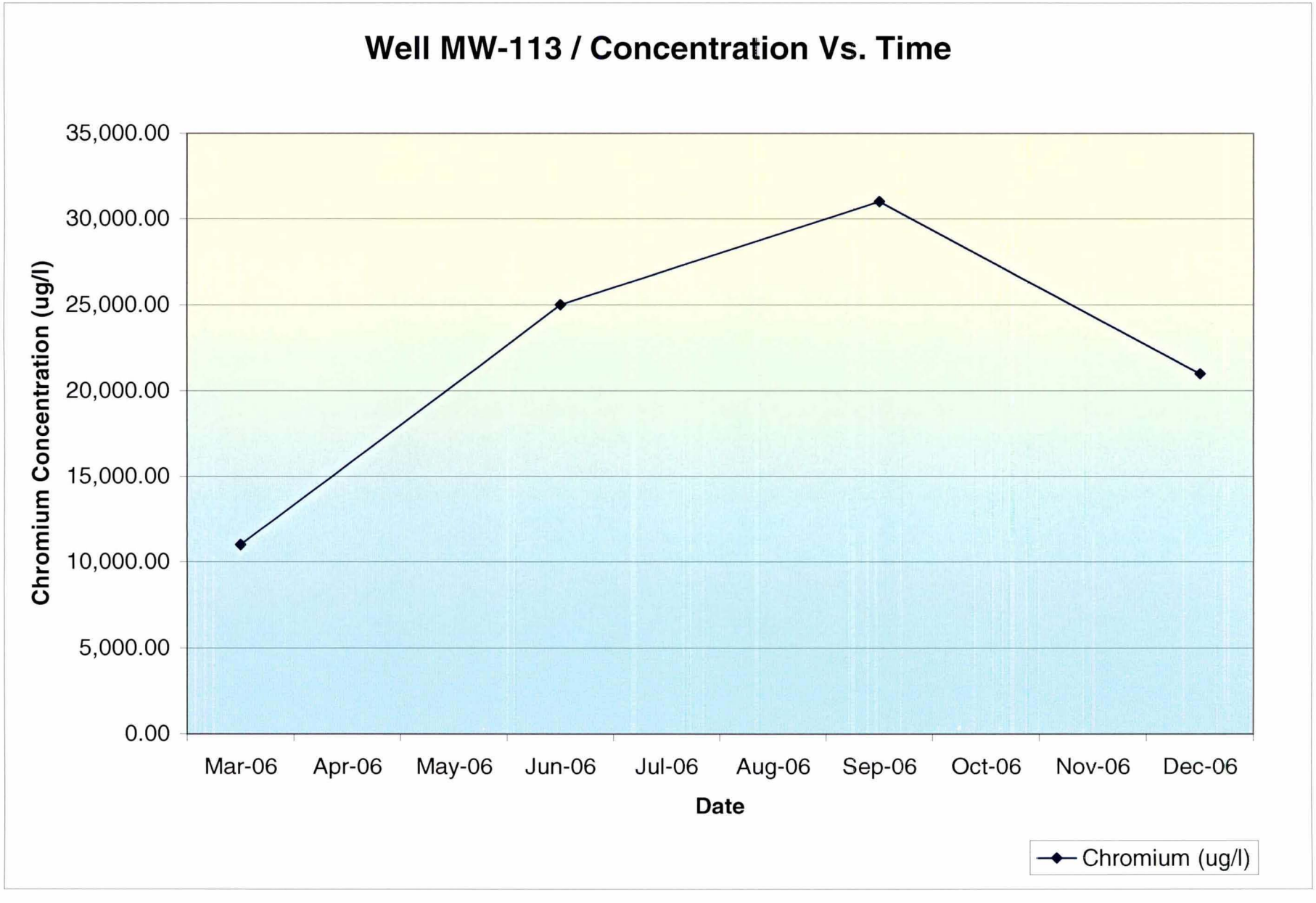
40,000.00
35,000.00
30,000.00
25,000.00
20,000.00
15,000.00
10,000.00
5,000.00
0.00
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07
Mar-07
Date
Chromium (ug/l)


Well MW-111 / Concentration Vs. Time
Chromium Concentration (ug/l)
2,500.00
2,000.00
1,500.00
1,000.00
500.00
0.00
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07
Mar-07
Date
Chromium (ug/l)


MW-112 / Concentration Vs. Time
160,000.00
140,000.00
120,000.00
100,000.00
80,000.00
60,000.00
40,000.00
20,000.00
0.00
Chromium Concentration (ug/l)
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07
Mar-07
Date
Chromium (ug/l)


Well MW-113 / Concentration Vs. Time
Chromium Concentration (ug/l)
35,000.00
30,000.00
25,000.00
20,000.00
15,000.00
10,000.00
5,000.00
0.00
Mar-06
Apr-06
May-06
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Date
Chromium (ug/l)

APPENDIX G

VOLATILE ORGANIC COMPOUNDS VS. TIME GRAPHS
MW-107, MW-110 & MW-113

APPENDIX G

VOLATILE ORGANIC COMPOUNDS (VOC's) CONTAMINATION VERSUS TIME
MW-107, MW-110 & MW-113
Quarterly Progress Report #32 & Semi-Annual Operation & Maintenance Report
N.W. Mauthe Groundwater Treatment System

Well Name	Sample Date	1,1-Dichloroethane (ug/l)	1,1-Dichloroethene (ug/l)	cis-1,2,-Dichloroethene (ug/l)	1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane (ug/l)	Trichloroethene (ug/l)
MW-107	02/20/97	11.00	8.40	0.70	81.00	0.60	50.00
	05/27/97	36.00	40.00	3.10	390.00	3.50	420.00
	09/18/97	23.80	22.10	1.30	132.00	2.83	295.00
	12/12/97	28.00	23.00	1.50	280.00	3.00	290.00
	03/25/98	30.50	69.00	2.50	720.00	5.00	620.00
	06/10/98	29.50	58.00	1.50	120.00	4.00	390.00
	10/27/98	62.00	23.00	3.60	550.00	4.90	640.00
	02/09/99	48.00	24.00	2.00	220.00	0.19	250.00
	06/08/99	42.00	20.00	1.60	200.00	1.50	310.00
	09/13/99	34.00	19.00	0.16	180.00	1.50	320.00
	12/15/99	37.00	56.00	2.30	570.00	2.70	880.00
	03/13/00	25.00	16.00	6.00	340.00	0.45	630.00
	06/22/00	14.00	25.00	6.00	540.00	4.50	850.00
	09/27/00	17.00	27.00	6.00	560.00	4.50	870.00
	12/19/00	36.00	53.00	2.20	480.00	2.00	790.00
	03/01/01	16.00	3.30	7.00	420.00	6.50	780.00
	06/25/01	26.00	35.00	4.00	360.00	3.20	620.00
	09/24/01	36.00	50.00	4.00	480.00	3.20	760.00
	12/05/01	40.00	50.00	4.00	500.00	3.20	810.00
	03/19/02	18.00	43.00	7.00	440.00	6.50	740.00
	06/20/02	31.00	39.00	3.60	410.00	3.40	690.00
	09/18/02	34.00	39.00	3.60	430.00	3.40	710.00
	12/17/02	40.00	21.00	3.60	470.00	3.40	850.00
	03/24/03	16.00	18.00	0.90	390.00	8.00	640.00
	06/10/03	2.60	19.00	5.00	400.00	4.50	680.00
	09/10/03	18.00	20.00	9.00	430.00	8.00	730.00
	12/10/03	25.00	31.00	9.50	380.00	8.00	740.00
	03/24/04	3.00	22.00	3.40	220.00	4.10	370.00
	07/29/04	29.00	25.00	2.05	310.00	3.40	510.00
	09/22/04	28.00	24.00	3.40	270.00	4.05	570.00
	12/14/04	33.00	40.00	3.40	410.00	4.05	800.00
	03/29/05	39.00	20.00	2.05	200.00	0.21	330.00
	06/22/05	18.00	8.20	1.05	82.00	0.50	160.00
	09/21/05	39.00	18.00	2.05	220.00	1.05	470.00
	03/23/06	31.00	16.00	2.05	150.00	1.05	330.00
	06/28/06	37.00	28.00	2.05	270.00	1.05	550.00
	09/20/06	32.00	31.00	4.15	330.00	2.10	700.00
	12/19/06	52	30	2.05	280	1.65	580
	03/28/07	19	18	2.10	190	1.7	340
MW-110	06/21/06	310	340	56	1,500	<4.2	27
	09/20/06	260	300	57	1,100	<4.2	30
	12/19/06	230	240	55	910	<4.2	23
	03/29/07	250	340	59	1,500	<8.4	32
MW-113	06/21/06	37	44	4.4*	240	<0.84	92
	09/20/06	22	19	3.6	120	0.82*	81
	12/19/06	28	16	5.2*	120	<2.1	91
	03/29/07	10	11	1.6	77	<0.42	46

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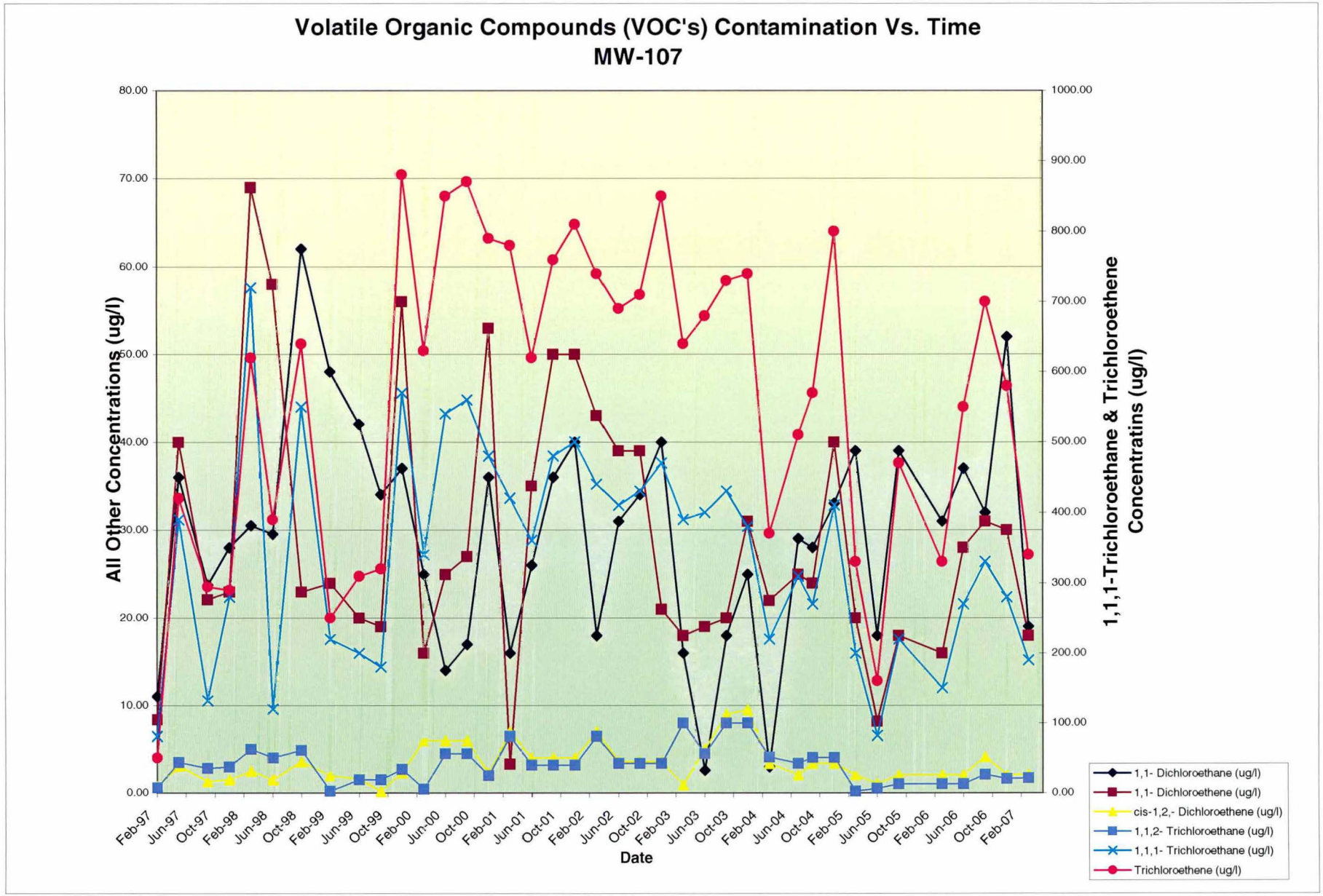
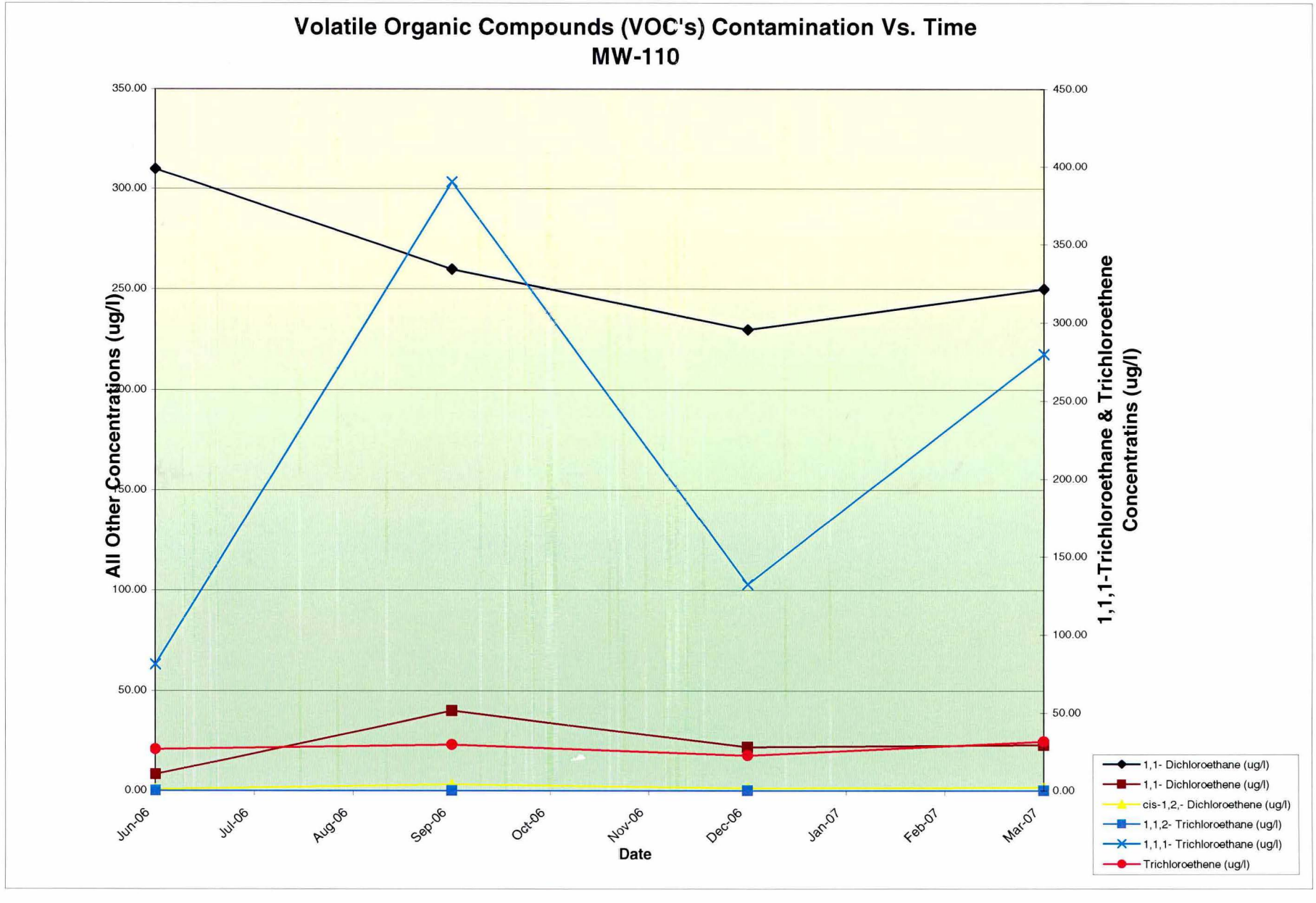

Volatile Organic Compounds (VOC's) Contamination Vs. Time
MW-107
All Other Concentrations (ug/l)
1,1,1-Trichloroethane & Trichloroethene Concentratins (ug/l)
Date
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
1000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
Feb-97
Jun-97
Oct-97
Feb-98
Jun-98
Oct-98
Feb-99
Jun-99
Oct-99
Feb-00
Jun-00
Oct-00
Feb-01
Jun-01
Oct-01
Feb-02
Jun-02
Oct-02
Feb-03
Jun-03
Oct-03
Feb-04
Jun-04
Oct-04
Feb-05
Jun-05
Oct-05
Feb-06
Jun-06
Oct-06
Feb-07
1,1- Dichloroethane (ug/l)
1,1- Dichloroethene (ug/l)
cis-1,2,- Dichloroethene (ug/l)
1,1,2- Trichloroethane (ug/l)
1,1,1- Trichloroethane (ug/l)
Trichloroethene (ug/l)


Volatile Organic Compounds (VOC's) Contamination Vs. Time
MW-110
All Other Concentrations (ug/l)
1,1,1-Trichloroethane & Trichloroethene Concentratins (ug/l)
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
450.00
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
Jun-06
Jul-06
Aug-06
Sep-06
Oct-06
Nov-06
Dec-06
Jan-07
Feb-07
Mar-07
Date
1,1- Dichloroethane (ug/l)
1,1- Dichloroethene (ug/l)
cis-1,2,- Dichloroethene (ug/l)
1,1,2- Trichloroethane (ug/l)
1,1,1- Trichloroethane (ug/l)
Trichloroethene (ug/l)