

MCO



Midwest Contract Operations

May 7, 2007

Mr. Chris Stempa
Appleton Department of Utilities
2006 East Newberry Street
Appleton WI, 54915-2758

RE: N.W. Mauthe Groundwater Treatment System
Appleton, Wisconsin
Annual Local Limit Compliance Parameters

Dear Mr. Stempa:

Midwest Contract Operations, Inc. (MCO) is pleased to submit the Annual Local Limit Compliance Analysis for the N.W. Mauthe Superfund Site, 725 South Outagamie Street, Appleton Wisconsin due on July 15, 2007. This report is being submitted in accordance with the City of Appleton Industrial User Permit No. 06-21, issued for the site on May 26, 2006.

The effluent samples were collected at the effluent discharge point, prior to Outfall 001. The samples were analyzed by Pace Analytical for metals (unfiltered) with total chromium (filtered) and hexavalent chromium (unfiltered). The analytical results are tabulated on the attached spread sheet. Please note that all parameters tested below the local discharge limits.

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

Very truly yours,

Midwest Contract Operations, Inc.

Paul Much
Environmental Scientist
920-751-4760

cc: Randy Much
Jennifer Borski

R + R - OSH
RECEIVED

MAY 2 2007

TRACKED 43
REVIEWED

Mauthe Effluent Limitations Analysis

Outfall 001

Parameter	Aluminum, Total (mg/L)	Arsenic, Total (mg/L)	Cadmium, Total (mg/L)	Chromium, Total (mg/L)	Chromium Hexavalent (mg/L)	Copper, Total (mg/L)	Cyanide, Total (mg/L)	Lead, Total (mg/L)	Mercury, Total (ug/L)	Nickel, Total (ug/L)	Zinc, Total (mg/L)	pH (s.u.)
Local Limits	70.0	1.0	0.3	7.0	4.5	3.5	1.0	2.0	2.0	2.0	10.0	5.0-12.4
6/27/2006	< 0.2	<.0076	<.00074	0.70	0.35	0.0016	<0.0094	<0.0034	<0.072	0.0021	<0.020	7.6
4/2/2007	0.0383	0.00024	0.000086	1.41		0.0041	<0.0094	0.00013	ND	0.0035	0.009	
4/3/2007				1.1	1.5							7.8



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.**

Analytical Report Number: 882265

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

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.

882265-001

Test Group Name

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



Pace Analytical Services, Inc.
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

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
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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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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 Analysis Method: EPA 200.8
 QC Batch 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		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum	ug/L	11.4	80	80	80	95.3	95.8	105	106	70-130	.5	20
Arsenic	ug/L	3.4	80	80	80	80.8	81.5	97	98	70-130	.8	20
Cadmium	ug/L	ND	80	80	80	77.1	76.7	96	96	70-130	.5	20
Chromium	ug/L	ND	80	80	80	75.6	75.8	94	94	70-130	.2	20
Copper	ug/L	1.2	80	80	80	79.0	78.4	97	97	70-130	.8	20
Lead	ug/L	0.31	80	80	80	76.3	76.1	95	95	70-130	.3	20
Nickel	ug/L	0.62	80	80	80	79.7	79.7	99	99	70-130	.03	20
Zinc	ug/L	ND	80	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 Analysis Method: EPA 245.1
 QC Batch 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	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury	ug/L	ND	5	5	5.4	5.6	109	113	85-115	4	30	





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Phone: (612)607-1700
Fax: (612)607-6444

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.

REPORT OF LABORATORY ANALYSIS

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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

Client Name: MCO

Project # 882265

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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

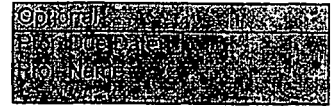
Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used N/A

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

Cooler Temperature NOT

Biological Tissue is Frozen: Yes No



Date and initials of person examining contents: MS 4/3/07
CF 4/3/07

Temp should be above freezing to 6°C

Comments:

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

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 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)

(Please Print Clearly)

UPPER MIDWEST REGION

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

COC No. 023213

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



CHAIN OF CUSTODY

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

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

Y/N	W	V																		
Pick Letter	D	G																		
Analyses Requested	Metals (See Attached)	Cyanide, Total																		

Quote #:
 Mail To Contact: Stuart Boerst
 Mail To Company: MCO
 Mail To Address: Menasha
 Invoice To Contact: Randy Much
 Invoice To Company: MCO
 Invoice To Address: Menasha
 Invoice To Phone: 920-457-4760

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
001	Moutre Effluent	4/2		GW	X	X	Metals (See Attached) Cyanide, Total

Metals Methods OK?

CLIENT COMMENTS
 4.250ML C/C1616

LAB COMMENTS (Lab Use Only)
 Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: 4/2/07

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

Relinquished By: Paul Much	Date/Time: 4/2/07	Received By: B Kember	Date/Time: 4/3/07 1430
Relinquished By: B Kember	Date/Time: 4/3/07 1540	Received By: [Signature]	Date/Time: 4/3/07 1540

PACE Project No. 882265
 Receipt Temp = 101 °C
 Sample Receipt pH OK / adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

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



Please Remit Payment To:
 Pace Analytical Services, Inc.
 P.O. Box 684056
 Milwaukee, WI 53268-4056
 1-800-736-2436

INVOICE

Page 1 of 1

Invoice No: 400882265

Invoice Date: 4/13/2007

Received Date: 4/3/2007

PO No:

Proj State: WI

Terms: Net 30

Due Date: 5/13/2007

Bill To:

MIDWEST CONTRACT OPERATIONS, INC.
 Attn: RANDY MUCH
 101 GARFIELD AVENUE
 P.O. BOX 418
 MENASHA, WI 54952-0418

Site Information:

MAUTHE

DESCRIPTION	QTY	PRICE EACH	SUB TOTAL
ALUMINUM - WATER	1	\$12.00	\$12.00
ARSENIC - WATER	1	\$12.00	\$12.00
CADMIUM - WATER	1	\$12.00	\$12.00
CHROMIUM - WATER	1	\$12.00	\$12.00
COPPER - WATER	1	\$12.00	\$12.00
MERCURY - WATER	1	\$30.00	\$30.00
NICKEL - WATER	1	\$12.00	\$12.00
LEAD - WATER	1	\$12.00	\$12.00
ZINC - WATER	1	\$12.00	\$12.00
CYANIDE, TOTAL - WATER	1	\$30.00	\$30.00

Invoice SubTotal: \$156.00

Tax: \$0.00

Total: \$156.00

Thank You for Choosing Pace Analytical Services, Inc.!



Please complete, detach and return with your payment.

Page 1 of 1

Method of Payment: Check / VISA / MasterCard / American Express Phone #: _____
(circle one)

INVOICE TOTAL \$156.00

Credit Card Holder: (print) _____ 1st 4 digits of address: _____

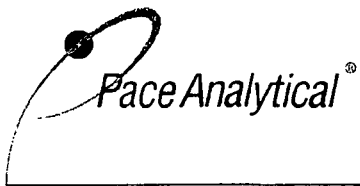
Amount Paid: \$ _____

Credit Card Account No: _____ Email Address: _____

Check No: _____

Exp Date: _____ Signature: _____ Zip Code: _____

Invoice No: 400882265



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

Analytical Report Number: 882261

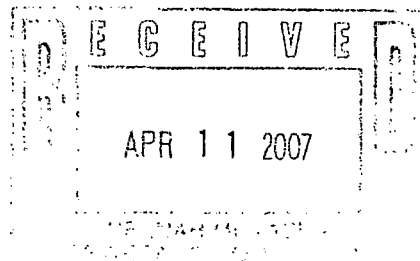
Client: MIDWEST CONTRACT OPERATIONS, INC.

Lab Contact: Brian Basten

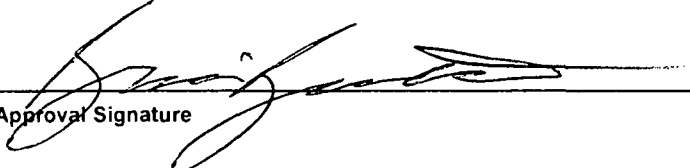
Project Name: MAUTHE 2007

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
882261-001	MAUTHE DISCHARGE	WATER	04/03/07 07:45



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

4-9-07
Date

Client : MIDWEST CONTRACT OPERATIONS, INC.

Project Name : MAUTHE 2007

Project Number :

Field ID : MAUTHE DISCHARGE

Matrix Type : WATER

Collection Date : 04/03/07

Report Date : 04/09/07

Lab Sample Number : 882261-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Chromium - Dissolved	1100	0.32	1.1		1	ug/L		04/06/07	SW846 3020A	SW846 6020
Chromium, Hexavalent	1500	170	570		1	ug/L		04/04/07	SM 3500 Cr-D	SM 3500 Cr-D

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.

882261-001

Test Group Name

CHROMIUM - DISSOLVED	B
CHROMIUM, HEXAVALENT	B

Code	WI Certification
B	405132750 / DATCP: 105-444



Sample Condition Upon Receipt

Client Name: MCO Project # 482261

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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

Optional:
Proj. Due Date:
Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other _____

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

Cooler Temperature NOI Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MS 4/30
CC 4/3/07

Comments:

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 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)

(Please Print Clearly)

UPPER MIDWEST REGION

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

COC No. 018350



CHAIN OF CUSTODY

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

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

Table with columns: Y/N, Pick Letter, Analyses Requested, DATE, TIME, MATRIX. Includes handwritten entries for 'CR' and 'SW' analyses.

Quote #: Mail To Contact: Mail To Company: Mail To Address: Invoice To Contact: Invoice To Company: Invoice To Address: Invoice To Phone:

CLIENT COMMENTS LAB COMMENTS Profile #. Includes handwritten notes like '1-250ML A, 1-250ML D'.

Company Name: MCO Branch/Location: MENASHA Project Contact: JAMES SPEICHLER Phone: 9207514760 Project Number: Project Name: MAINTHE 2007 Project State: WI Sampled By (Print): JAMES SPEICHLER Sampled By (Sign): [Signature] PO #: Regulatory Program:

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

Table with columns: PACE LAB #, CLIENT FIELD ID, COLLECTION DATE, TIME, MATRIX. Includes handwritten entry for '001 MAINTHE DISCHARGE 4/3/07 745A GW'.

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

Relinquished By: Received By: Date/Time: Includes handwritten signatures and dates like 'JAMES SPEICHLER 4/3/07' and 'B. [Signature] 4/3/07 1430'.

PACE Project No. 882261 Receipt Temp = 20.1 °C Sample Receipt pH (OK) Adjusted Cooler Custody Seal Present (Not Present) Intact / Not Intact