

OMNNI ASSOCIATES, INC. ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 800-571-6677 • 920-735-6900 FAX 920-830-6100 WWW.OMNNI.COM

October 7, 2008

Mr. Chris Stempa Deputy Director of Utilities Appleton Wastewater Treatment Facility 2006 East Newberry Street Appleton, WI 54915-2758

RE: N.W. Mauthe Superfund Site – Appleton, Wisconsin Compliance Report, Industrial User (Wastewater Discharge) Permit # 06-21

Dear Mr. Stempa:

OMNNI Associates, Inc. is pleased to submit the quarterly process compliance report for the N.W. Mauthe site, 725 Outagamie Street, Appleton, Wisconsin. This report is submitted in accordance with the City of Appleton Industrial User Permit No. 06-21, issued on May 26, 2006.

The flow monitoring and sampling activities were conducted at the effluent discharge point, prior to Outfall 001. Samples were collected by closing the discharge valve (usually the day prior to sampling) to allow water to collect in the equalization tank. Approximately 24 hours later, the discharge valve was reopened and the composite sample was collected.

From the sample collected, a new, laboratory provided, plastic 250 ml sample container was filled. This unfiltered, unpreserved sample was analyzed for hexavalent chromium by Pace Analytical Services laboratory. (See laboratory chains of custody and laboratory reports, attached.)

If the monthly total chromium sample was prepared during the sampling event, water from the collected discharge sample was filtered through a 0.45 µm filter and then poured into a new, laboratory provided, plastic 250 ml sample container. The sampling container contained nitric acid as a preservative. The sample was analyzed for total dissolved chromium by Pace Analytical Services laboratory.

After the laboratory samples were prepared, pH was measured with a Hach pH Pocket Pal Tester from the remaining collected discharge sample.

The table below summarizes the total metered discharge readings, pH measurements, and laboratory analysis. Monthly discharge totals were calculated by linear interpolation of the actual meter readings.

		······································	OUTF	ALL 001		· · · ·	
Date Actual	Date For Linear Interpolation	Metered Discharge Reading (gallons)	Gallons Discharged Between Meter Reading	Monthly Discharge (gallons)	рН	Hexavalent Chromium Lab Analysis (mg/L) [Local Limit 4.5 mg/L]	Total Chromium Lab Analysis (mg/L) [Local Limit 7.0 mg/L]
	07/01/08	9,026,850					
07/01/08		9,026,850	0		9.3	1.4	1.290
07/07/08		9,035,952	9,102				
07/08/08		9,035,952	0		9.4	1.2	
07/10/08		9,041,071	5,119				
07/14/08		9,054,932	13,861				
07/15/08		9,054,932	0		9.4	0.82	
07/21/08		9,083,663	28,731				
07/22/08		9,083,663	0		9.4	0.74	
07/25/08		9,114,297	30,634				
07/28/08		9,121,075	6,778				
07/29/08		9,121,075	0		7.4	0.70	
07/29/08		9,123,409	2,334	July			
	08/01/08	9,127,730		100,880			
08/04/08		9,137,140	13,731			<u> </u>	
08/05/08		9,137,140	0		7.6	1.30	1.260
08/05/08		9,141,581	4,441				
08/09/08		9,151,886	10,305				
08/11/08		9,154,723	2,837			<u> </u>	
08/12/08		9,154,723	0		7.5	1.2	
08/13/08		9,157,388	2,665				
08/18/08		9,162,704	5,316				
08/19/08		9,162,704	0		7.5	0.98	
08/19/08		9,163,932	1,228	· · · · · · · · · · · · · · · · · · ·			·
08/21/08		9,166,109	2,177				
08/24/08		9,168,274	2,165			·	
08/26/08		9,168,274	0	August	7.5	1.1	
	09/01/08	9, 173, 323		45,593			
09/01/08		9,173,586	5,312				
09/02/08		9,173,586	0,0.2		7.6	1.4	1.290
09/02/08		9,174,445	859				
09/06/08		9,176,960	2,515				
09/08/08		9,176,960	0		7.5	1.3	
09/15/08		9,182,218	5,258		· · · · ·		
09/16/08		9,182,218	0,200		7.6	1.3	
09/18/08		9,185,245	3,027				
09/22/08		9,187,538	2,293				
09/23/08		9,187,538	0		7.5	1.6	
09/28/08		9,191,553	4,015				
09/30/08		9,191,553		September	7.6	1.8	
	10/01/08	9,192,867		19,545			
10/05/08		9,195,280	3,727	,			

Italicized metered discharge reading was calculated by linear interpolation.

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Quarterly compliance report Page 3 of 3

Industrial User (Wastewater Discharge) Permit 06-21 Outfall 001 Effluent Limitations:

рН	Hexavalent Chromium	Total Chromium
Between 5.0 – 12.4 s.u.	< 4.5 mg/L	< 7.0 mg/L

There were no exceedances during this reporting period of the Industrial User (Wastewater Discharge) Permit from Outfall 001 based on the monitoring performed.

I performed all the sample collection and monitoring¹ during the time period from July 1, 2008 through September 30, 2008.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding the information provided, please do not hesitate to contact me.

Sincerely, OMNNI Associates, Inc.

Bin J. Waynes

Brian D. Wayner, P.E. Environmental Manager

Enclosures

cc: Ms. Jennifer Borski, Hydrogeologist/Project Manager, WDNR-Northeast Region RR, 625 E. County Road Y, Suite 700, Oshkosh, WI 54901-9731

¹ Brian Wayner is a professional engineer (E35304), has been trained in sample collection and preparation, has obtained his OSHA 40-Hour HAZWOPER Certification, and has completed annual refresher training.



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

July 03, 2008

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

RECEIVED JUL 87 2008 OMNNI ASSUCIATES

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 405866

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 10





Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

N1866A05/003 MAUTHE Project: Pace Project No.: 405866

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

Green Bay Volatiles Certification IDs

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

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

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

REPORT OF LABORATORY ANALYSIS



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SAMPLE SUMMARY

Project: Pace Project N	N1866A05/003 MAUTHE No.: 405866				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	······································
405866001	OUTFALL 001	Water	07/01/08 07:00	07/01/08 15:10	

REPORT OF LABORATORY ANALYSIS





Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE Pace Project No.: 405866

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
405866001	OUTFALL 001	EPA 6010	DLB	. 1	PASI-G
		EPA 7196	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: N1866A05/003 MAUTHE

Pace Project No.: 405866

Method: EPA 6010

Description:6010 MET ICPClient:OMNNI ASSOCIATES, INC.Date:July 03, 2008

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

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

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS



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PROJECT NARRATIVE

Project: N1866A05/003 MAUTHE

Pace Project No.: 405866

Method: EPA 7196

Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:July 03, 2008

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Siank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: N1866A05/003 MAUTHE

Pace Project No.: 405866

Sample: OUTFALL 001	Lab ID:	405866001	Collecte	d: 07/01/0	B 07:00	Received: 07/	01/08 15:10 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytica	I Method: EPA	6010 Prep	aration Met	hod: EF	PA 3010			
Chromium	1290	ug/L	5.0	1.1	1	07/02/08 09:10	07/02/08 16:12	7440-47-3	
7196 Chromium, Hexavalent	Analytica	I Method: EPA	7196						
Chromium, Hexavalent	1.4	ng/L	0.057	0.017	5		07/01/08 17:10	18540-29-9	

Date: 07/03/2008 02:54 PM

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

•	N1866A05/003 N 105866	AUTH	E										
QC Batch:	WETA/1866			Analy	sis Method	d. I	EPA 7196						
QC Batch Method:	EPA 7196			•	sis Descri		7196 Chromi	um Hexaval	ent				
Associated Lab Sam		01											
METHOD BLANK: 4	7810												
Associated Lab Sam	oles: 4058660	01											
Parame	ter		Units	Blani Resu		Reporting Limit	Qualifie	rs					
Chromium, Hexavale	nt	mg/L		<0	.0034	0.01	1						
LABORATORY CON	TROL SAMPLE	: 478		•	,								
Parame	ter		Units	Spike Conc.	LC Res		LCS % Rec	% Rec Limits	Qı	ualifiers			
Chromium, Hexavale	nt	mg/L			3	0.30	101	90-1	10		-		
MATRIX SPIKE & M		UPLIC	ATE: 47812			47813			· · ·		\$		
				MS	MSD				۰.	4m')	- <u>-</u>		
Paramete		Units	405864001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec⊶	% Rec		Max RPD	Qual
Chromium, Hexavale	nt mg	/L	0.65	.75	.75	1.4	1.4	101	100	····	·	20	

Date: 07/03/2008 02:54 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: N1866A05/0 Pace Project No.: 405866	03 MAUTH	IE										
QC Batch: MPRP/150	7		Analys	is Method	: 1	EPA 6010						
QC Batch Method: EPA 3010			Analysis Description:			6010 MET						
Associated Lab Samples: 4058	366001											
METHOD BLANK: 47851	<u> </u>											
Associated Lab Samples: 4058	366001											
Parameter		Units	Blank Resul		eporting Limit	Qualifie	rs					
Chromium	ug/L			<1.1	5.	0						
LABORATORY CONTROL SAM	PLE: 4785	52	Spike	LCS		LCS	% Rec	·····				
Parameter		Units	Conc.	Resu		% Rec	Limits		alifiers			
Chromium	ug/L	····	500		554	- 111	80	-120	·	-		
MATRIX SPIKE & MATRIX SPIK		ATE: 47853		w=	47854							
Parameter	Units	405711006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual
Chromium	ug/L		 500	500	552		110	111	75-125			Quai
	×											

•2 • •

Date: 07/03/2008 02:54 PM

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: N1866A05/003 MAUTHE Pace Project No.: 405866

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 07/03/2008 02:54 PM

REPORT OF LABORATORY ANALYSIS

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· 2	Sam	ple Cor	ditior	Upon Re	eceipt			
Pace Analytical"	Client Name:	<u>O</u> a	enn	i app	leton	Project # _	4050	866
Courier: D Fed Ex DUPS		•				Proj	nal Due Date	
Custody Seal on Cooler/Box	Present: yes	no 🖯	Seals	s intact:] yes 🛛] no	Name:	a second second
Packing Material: 🔲 Bubble	Wrap Bubble	Bags 🛱	None	Other				
Thermometer Used		Type of Ic	e: (Wei	Blue No	ne 🗌	Samples on ice, o		
Cooler Temperature Temp should be above freezing to	NOT D6°C	Biologica	l Tissue	e is Frozen: A			tials of perso	
Chain of Custody Present:		Ares ON	₀	1.				
Chain of Custody Filled Out:		Ø9es □N	₀ □n/a	2.				
Chain of Custody Relinquishe	d:	Pres DN	₀	3.				
Sampler Name & Signature or	1 COC:							
Samples Arrived within Hold T	ïme:		₀ □N/A	5.				
Short Hold Time Analysis (<	72hr):	Wres IN	□ □N/A	6.				
Rush Turn Around Time Rec	juested:		0 □ □ N/A	7.				
Sufficient Volume:				8.				
Correct Containers Used:		Øres □N	₀ □n/a	9.				
-Pace Containers Used:			□ □ N/A					
Containers Intact:			⊳ □n/a	10.				
Filtered volume received for D	issolved tests			+				
Sample Labels match COC:		Erres PN	₀ ^{′′} N/A	12.				
-Includes date/time/ID/Anal All containers needing preservation t	· · · ·		 ⊳ □n/a	13.	<u></u>			
All containers needing preservatio compliance with EPA recommendation		bGres □N	⊳ □n/a			1		
exceptions: VOA, coliform, TOC, O&G	, WI-DRO (water)	□Yes □No	. 71	Initial when completed	<u> </u>	Lot # of added preservative		
Samples checked for dechlorin	nation:							
Headspace in VOA Vials (>6n	nm):		-					
Trip Blank Present:			s ¢∰h/a	16.				
Trip Blank Custody Seals Pres	ent		⊳ ØMA					
Pace Trip Blank Lot # (if purch	ased):			I				
Client Notification/ Resolution Person Contacted: Comments/ Resolution:		· · · · · · · · · · · · · · · · · · ·	_Date/	Time:		Field Data Requir	ed? Y	/ N
Project Manager Review:	A					Date:		 N
							1	

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)

	(Ple	ase F	Print Clearly)				_				•								Page	1 of 1
Company Na	me:	ØM	NON ASSOCI	ATCS							. 18			MN: 6	12-607-	1700	WI: 920-469-2436			031283
Branch/Loca			APPLATON			/		ace	Ana	lytic	al							COC No.		031203
Project Cont	act:	B	RIAN WAY							ecelabs.c							Quote #:	T	NAUTHE	2
Phone:			20/830-61			ļ	C	HA;	NIN	OF	: C	USI	O	DY			Mail To Contact:	Br.	AN WA	YNER
Project Numl	ber:		1866A05/00			A=No		ICL C=		*Preserva	tion Cod	85		ol G=N			Mail To Company:			SSOCIATES
Project Name	e:		MAUTHE			H=So	dium Bisul			I=Sodiun	n Thiosulf	ate J=1	Other				Mail To Address:		SYSTEM	
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Sampled By			Brind. Way			(COI	JE)-	Letter		<u> </u>							Invoice To Company:			
PO #:		Ę	n_ way	Regula				sted	1. L	3							Invoice To Address:		mnol	
Data Packa		one	MS/MSD	Progra		x Codes	·	Analyses Requested	5	2									samq	
(biii	able)		On your sample	A = Air B = Biota	1	W = Water DW = Drinkir		s Re	E E	50										
	A Level I A Level I		(billable) NOT needed on	C = Charco O = Oil	oal (GW = Groun SW = Surfac	d Water æ Water	lyse	14 Y	CHR						1	Invoice To Phone:			
			your sample	S = Soll SI = Sludge		WW = Waste WP = Wipe	e Water	Ana	HEXAVALLUS	J							CLIENT		OMMENTS	Profile #
PACE LAB #		CLIE	NT FIELD ID	DA	ATE	TIME	MATRIX			L				<u> </u>			COMMENTS		Jse Only)	
001		00	TFALL OOL		108	7:06	GW		\times	X								2-250	Pack A,D	
						.,														
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	<u> </u>																			
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Rush Tu	urnarour	nd Time	e Requested - Prel	ims	Reling	uished By:		1.			1 ite/Time:	I		Receive			9/, /Date/Time:	<u> </u>	PACE	Project No.
(Rush		oject to Neede	approval/surcharg	je)	Roling	ujahjed Byr	V. Wa	pur		7/10	s ite/Time:	7.57	0	/2 Receiver	717	up	2 / / / / / Date/Time:	<u>\$930</u>	#40	5866
Transmit Pr			by (complete what you	want):		3Kg	up	en		////	8	15	10	Heceiver	K.W	Û	Un 7/1/08/11110:	5:10	Peeelet Terrer	1000
Email #1:					Relinq	uished By:	\prod			Da	te/Time:			Receive	d By:		Date/Time:		Receipt Temp =	Receipt pH
Email #2: Telephone:		·			Reling	uished By:	<i>\</i>			Da	te/Time:			Receive	d By:		Date/Time:			Adjusted
Fax:					1										-					ustody Seal
			are subject to lease of liability		Relinq	uished By:				Da	ite/Time:			Receive	d By:		Date/Time:			Not Present
sp		-9 and 19			<u> </u>									I				·	Intact /	Not Intact



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

July 10, 2008

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

RE: Project: N1866A05/003 MAUTHE Pace Project No.: 406101

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Page 1 of 7



CERTIFICATIONS

N1866A05/003 MAUTHE Project:

Pace Project No.: 406101

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

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

Green Bay Volatiles Certification IDs

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

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: N1866A05/003 MAUTHE

Pace Project No.: 406101

Lab ID	Sample ID	Matrix	Date Collected	Date Received
Lab ID	Sample ID	Matrix	Date Collected	Date Received
406101001	OUTFALL 001	Water	07/08/08 06:59	07/08/08 14:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: N1866A05/003 MAUTHE Pace Project No.: 406101

				Analytes	
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory
406101001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS





ANALYTICAL RESULTS

	N1866A05/00 406101	3 MAUTHE								
Sample: OUTFALL	001	Lab ID:	406101001	Collecte	d: 07/08/08	3 06:59	Received: 07/	08/08 14:55 M	atrix: Water	
Paramet	ers	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexava	lent	Analytica	Method: SM 3	500-Cr B (C	Online)					
Chromium, Hexavale	ent	1.2 n	ng/L	0.057	0.017	5		07/08/08 16:00	18540-29-9	

Date: 07/10/2008 12:19 PM

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pace Project No.:	N1866 40610	A05/003 MAUTH 1	IE										
QC Batch:	WET	A/1906		Analys	sis Method	l: S	M 3500-Cr E	3 (Online)					
QC Batch Method:	SM 3	500-Cr B (Online	e)	Analy	sis Descrip	otion: C	Chromium, H	exavalent	by 3500				
Associated Lab Sar	nples:	406101001											
METHOD BLANK:	50138												
Associated Lab Sar	nples:	406101001											
Param	neter		Units	Blanl Resu		eporting Limit	Qualifier	S					
Chromium, Hexava	lent	mg/L		<0.	.0034	0.011	• <u></u>						
LABORATORY CO		SAMPLE: 501;	39		·								
				Spike	LCS	5	LCS	% Red	;				
Paran	neter		Units	Conc.	Resu	ult	% Rec	Limits	Qu	ualifiers	_		
Chromium, Hexava	lent	mg/L	,	.3	3	0.31	102	90	-110		-		
MATRIX SPIKE & N		SPIKE DUPLIC	ATE: 50140			50141							
				MS	MSD								
			406101001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexava	lent	mg/L	1.2	1.5	1.5	2.8	2.8	106	106	90-110	.1	20	

Date: 07/10/2008 12:19 PM

REPORT OF LABORATORY ANALYSIS

Page 6 of 7

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QUALIFIERS

N1866A05/003 MAUTHE Project:

Pace Project No.: 406101

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 07/10/2008 12:19 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 7



\sim	San	nple C	ond	litior	l Upon	Receipt				(6 1
Pace Analytical"	Client Name		M	M	<u>u'</u> f	assoc	F	Project #	<u>401</u>	0/0/
Courier: 🔲 Fed Ex 🔲 UPS Tracking #:	USPS 🗍 Clier	nt 🗆 Co	omm	ercial		e Other		Prove	nie Date 2	
Custody Seal on Cooler/Box	Present: Uyes	D no	5	Seals	intact:	🗌 yes		no exe	lame.	
Packing Material: 🔲 Bubble	Wrap Bubble	Bags [<u>tí</u> n	lone	U Oth	er				
Thermometer Used	N/A				Blue			Samples on ice, c	coling proce	ss has begun
Cooler Temperature	NOE	Biologi	ical 1	lissue	is Froze Comme	en: Yes No ents:		Date and Initi contents:		n examining
Chain of Custody Present:		18 As [۶.					
Chain of Custody Filled Out:		Des [2.					
Chain of Custody Relinquished		XXXs [·····	
Sampler Name & Signature on		the t			4.					
Samples Arrived within Hold Ti		Des [
Short Hold Time Analysis (<7	· · · · · · · · · · · · · · · · · · ·				6.					
Rush Turn Around Time Req	•	□Yes (kink		7.					
Sufficient Volume:		Des C]No		8.					
Correct Containers Used:		Des [
-Pace Containers Used:										
Containers Intact:		A Yes C			10.					
Filtered volume received for Di	ssolved tests	QYes C			11.			·		
Sample Labels match COC:		Di Des C	JNo		12.					
-Includes date/time/ID/Analy	ysis Matrix:	'ω		_						
All containers needing preservation h		OYes C			13.					
All containers needing preservation compliance with EPA recommenda		OYes C]No	100A						
exceptions: VOA, coliform, TOC, O&G,	WI-DRO (water)	OYes C	No		Initial whe			_ot # of added preservative		
Samples checked for dechlorin		□Yes □		Chua .	<u>'</u>					
Headspace in VOA Vials (>6m		OYes C								
Trip Blank Present:	·····	OYes C		ŽÍN/A						
Trip Blank Custody Seals Pres	ent	QYes C		Spara.						
Pace Trip Blank Lot # (if purcha		_		\sim						
Client Notification/ Resolution								ield Data Require	d2 \	/ N
Person Contacted:				Date/	lime.		r	icio Dala riequire	4: T	/ 11
Comments/ Resolution:				Dutti				·		
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	/		<u>. </u>							
Project Manager Review:	An	\leq					<u> </u>	Date:	<u>//8/(</u>	18

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)

		se Pri	nt Clearly)					\frown								/EST RI	<u>EGION</u> WI: 920-469-2436	Page 1	of
Company Na	me:	<u>0</u> M	NNI ASS	OC(A	TES				An	alytic	al®			WIN. O	12-007	-1700	**1. 920-409-2430		
Branch/Locat	tion:		APPLETO	2				raut		liylic Nacelabs.						1		· · · · · · · · · · · · · · · · · · ·	
Project Conta	act:	Ber	AN WAY	NER													Quote #:	MAUTHE	
Phone:		920	1830-61	41			0	<u>CH/</u>	<u> VIN</u>	OF	<u>- C</u>	<u>US</u>	<u>TO</u>	<u>DY</u>			Mail To Contact:	BRIAN WAY	WER
Project Numb	per:		66405 100			A=N	one B=	HCL C=	H2SO4	Preserve	ation Cod 3 E≖Di	tes Water	F=Methar	ol G=N	aOH		Mail To Company:	OMNNI ASS	OCIATES
Project Name			AUTHE			H=S	odium Bisu	lfate Solut	ion	I=Sodiur	n Thiosulf	fate J	=Other				Mail To Address:	ONDE SYSTEMS	DRIVE
Project State:	:		w1			FILTE (YES	ERED? S/NO)	YIN	N									APPLETON, WI	
Sampled By ((Print):		IAN WA	YNE	8		RVATION	Pick	A			1					Invoice To Contact:	BR. AN WAY	NER
Sampled By (Sign):	B	- D. Way	aur		,	,				1	1	1				Invoice To Company:	OMNN	
PO #:		<u>_/</u>		Regu	ulatory gram:												Invoice To Address:		<u></u>
Data Packa	ge Optio	ns	MS/MSD			rix Code:	5		3 5	1								SAME	
(billa	able) A Level III] On your sample	10 - 0101	ta	W = Water DW = Drinki		A Analyses Requested	HEXAVALENT			1						· · · · · · · · · · · · · · · · · · ·	
	A Level IV	Íc	(billable) NOT needed on	C = Cha O = Oil S = Soil		GW = Ground SW = Surface WW = Wast	ce Water		KA.						1		Invoice To Phone:	L	
2405.40.4			your sample	SI = Slu		WP = Wipe	<u> </u>		U E H E	5			1				CLIENT COMMENTS		Profile #
PACE LAB #	<u> </u>		FIELD ID		DATE	TIME	MATRIX	1.1			<u> </u>		<u> </u>		· •		COMMENTS	(Lab Use Only)	
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Telephone:					Reling	uished By:				Da	te/Time:			Received	By:		Date/Time:	OK/A	djusted
Fax: S	amples on H	IOLD are	subject to		Reling	uished By:				Da	te/Time:			Received	By:		Date/Time:		stody Seal
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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, VM 54302 (920)469-2436

July 16, 2008

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

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 406369

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on July 15, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8



ace Analvtical ww.pacelabs.com

CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 406369

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

Green Bay Volatiles Certification IDs

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

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

Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 83 Louisiana Certification #: 04169 was a second constant of second second second

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003 No.: 406369				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
406369001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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Page 4 of 8



PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 406369

Method: SM 3500-Cr B (Online)

Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:July 16, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS





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ANALYTICAL RESULTS

Project: Pace Project No.:	MAUTHE OU 406369	ITFALL N1866A	05/003							
Sample: OUTFAL	L 001	Lab ID:	406369001	Collecte	d: 07/15/08	3 07:09	Received: 07/	15/08 12:15 N	Matrix: Water	
Parame	ters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexav	alent	Analytica	I Method: SM 3	3500-Cr B (C	Online)					
Chromium, Hexava	lent	0.82	mg/L	0.057	0.017	5		07/15/08 08:0	0 18540-29-9	

Date: 07/16/2008 11:48 AM

REPORT OF LABORATORY ANALYSIS

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Page 6 of 8



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QUALITY CONTROL DATA

	UTHE OUTFALL N 369	1866A05/003										
QC Batch: W	ETA/1949		Analys	sis Method	: 5	SM 3500-Cr E	3 (Online)					
QC Batch Method: Si	M 3500-Cr B (Onlir	ie)	Analys	sis Descrip	tion: C	Chromium, H	exavalent	oy 3500				
Associated Lab Sample	s: 406369001											
METHOD BLANK: 522	10											
Associated Lab Sample	s: 406369001											
Parameter		Units	Blani Resu		eporting Limit	Qualifier	S			•		
Chromium, Hexavalent	mg/	L	<0.	0034	0.01	1						
LABORATORY CONTR	OL SAMPLE: 522	211										
			Spike	LCS	5	LCS	% Rec	;				
Parameter		Units	Conc.	Resu	ult	% Rec	Limits	Qu	ualifiers			
Chromium, Hexavalent	mg/	Ľ.	.3		0.30	101	90	-110		-		
MATRIX SPIKE & MAT		CATE: 52212			52213							
			MS	MSD								
		406319001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexavalent	mg/L	<0.0034	.3	.3	0.29	0.31	98	102	90-110	4	20	

Date: 07/16/2008 11:48 AM

REPORT OF LABORATORY ANALYSIS

Page 7 of 8

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QUALIFIERS

Project:	MAUTHE OUTFALL N1866A05/003
Pace Project No.:	406369

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 07/16/2008 11:48 AM

REPORT OF LABORATORY ANALYSIS

Page 8 of 8

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nelac

S S	ample Condition Upo	n Receipt			
Pace Analytical Client Nam	e: Omni		Project #	406369	<u> </u>
Courier: C Fed Ex UPS USPS C C			Proj	nal Due Date no se	
Custody Seal on Cooler/Box Present: U ye	s no Seals intact:	🗌 yes 🗌] no	Name States (17	
Packing Material: DBubble Wrap Bubb					
Thermometer Used <u>NIA</u>	Type of Ice: Wet Blue	None [cooling process has begun	— ,
Cooler Temperature <u>RS</u>	Biological Tissue is Froz	1 ()	Date and Init	ials of person examining	
Temp should be above freezing to 6°C		ents: AD v			
Chain of Custody Present:	Tyes INO INVA 1.				
Chain of Custody Filled Out:	EYes No N/A 2.				
Chain of Custody Relinquished:	Yes INO IN/A 3.				
Sampler Name & Signature on COC:	EYes DNo DN/A 4.			···	
Samples Arrived within Hold Time:	PYes DNO DN/A 5.				
Short Hold Time Analysis (<72hr):	DYes ONO DN/A 6.	cnrovu		<u> </u>	
Rush Turn Around Time Requested:	UYes DINO DINA 7.				
Sufficient Volume:	Yes INO IN/A 8.			· · · · · · · · · · · · · · · · · · ·	
Correct Containers Used:	Yes INO IN/A 9.				
-Pace Containers Used:					
Containers Intact:	ØYes 🗆 No 🗆 N/A 10.				
Filtered volume received for Dissolved tests	UYes DNO DAVA 11.				
Sample Labels match COC:	Yes INO IN/A 12.			·	
-Includes date/time/ID/Analysis Matrix:	W				
All containers needing preservation have been checked.	TYes No ZIN/A 13.		,		
All containers needing preservation are found to be in compliance with EPA recommendation.					
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	Ves INo Initial wh		Lot # of added preservative		, ×,000
Samples checked for dechlorination:	DYes DNO ZINA 14.	``````			
Headspace in VOA Vials (>6mm):	□Yes □No 2N/A 15.				1
Trip Blank Present:	□Yes □No ØN/A 16.		······································		-1
Trip Blank Custody Seals Present					
Pace Trip Blank Lot # (if purchased):					
Client Notification/ Resolution: Person Contacted:	Date/Time:		Field Data Require	ed? Y/N	_
Comments/ Resolution:			· · · · · · · · · · · · · · · · · · ·		
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<i>A</i>		<u> </u>		TICA	
Project Manager Review:		<u></u>	Date:	111402	_

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)

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(Please Print Clearly)			~					U	PPER M		EGION		Page 1	of /
			1					M	N: 612-	607-1700	WI: 920-469-2436			
Company Name: OMNNI ASSOCIA Branch/Location: APPLETON		/ /	ace A	nal	ytica	/°					I			
Project Contact: Brian Wayne	R				elabs.con		•			And	Quote #:	M	AUTHE	
Phone: 920/830-6141		С	HAI	N (OF	Cl	JST	OD	Y	Kor	Mail To Contact:		yaw cre	NER
Project Number: N1866A05/003				°P	reservatio =HNO3	on Code	2		G=NaOH		Mall To Company:	0	\sim	
Project Name: MAUTHE		odlum Bisulfa	ate Solution	: 	≖Sodium T	hiosulfat	te J=O	ther			Mail To Address:	- NE	SYSTEM	DRIVE
Project State:		ERED? S/NO)	\$2003	N								APP	2000,00	Yak
	PRESE		1263 Lector	A							Involce To Contact:	1	an Way	
Sampled By (Print): BRIAN WAYNLE Sampled By (Sign): B. D. Wayner		/									Invoice To Company:			
PO #: Fegula	atory am:		Analysics Requested	z <					ł		Invoice To Address:		Some Some	
Data Package Options MS/MSD (biliable) On your sample A = Air B = Biota EPA Level III (biliable) C Chor	Matrix Code W = Water DW = Drink	ing Water	e fed	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							Invoice To Phone:			
EPA Level IV NOT needed on S = Sail	xxal GW = Grou SW = Sunfa WW ≈ Was	ice Water	allys (Į		ĺ								
			Sen C								CLIENT COMMENTS		OMMENTS Use Only) ~	Profile #
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Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)	Relinquished By:	V. We	reme	· 	Date/ 7/15/68	ŝ	7:50		Prod By	2~000	1/1 Date/Time	35	1/21	roject No. 2/9
Date Needed: Transmit Prelim Rush Results by (complete what you want):	Relinguished By.	an	1 pan	7	Date	Time:	121	Æ	iceived By	~ k.	Schoot 7/15	10815	706.	001
Email #1:	Relinguished By:	<u> </u>	1	l		Time:	<u>_{ ~ ~ </u>	Re	iceived By	P	Date/Time:	100	Receipt Temp =	Ker °C
Email #2:			V					<u> </u>	·		······································		AD SATIPLE F	tecelpt pH
Telephone:	Relinquished By:				Date/1	Time:		Re	ceived By	:	. Date/Time:			djusted T
Samples on HOLD are subject to special pricing and release of liability	Relinquished By:				Date/1	Time:		Re	ceived By	:	Date/Time:		Present /	lot Present



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

July 23, 2008

RECEIVED JUL 2 5 2008

OMNNI ASSOCIATES

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

RE: Project: MAUTHE N1866A05/003 Pace Project No.: 406684

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8



e Analytical www.nacetahis.com

CERTIFICATIONS

Project:	MAUTHE N1866A05/003

Pace Project No.: 406684

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

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951 California Certification #: 06247CA Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334 South Carolina Certification #: 83006001 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 Kentucky Certification #: 82 Louisiana Certification #: 04168

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

REPORT OF LABORATORY ANALYSIS





.

SAMPLE SUMMARY

Project: Pace Project No.:	MAUTHE N1866A05/003 406684			
Lab ID S	Sample ID	Matrix	Date Collected	Date Received
406684001 (OUTFALL 001	Water	07/22/08 04:28	07/22/08 13:35

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project:	MAUTHE N1866A05/003
Pace Project No.:	406684

Lab ID	Sample ID	Method	Analysts	Analytes Reported Laboratory
406684001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1 PASI-G

REPORT OF LABORATORY ANALYSIS



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PROJECT NARRATIVE

Project: MAUTHE N1866A05/003

Pace Project No.: 406684

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:July 23, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS





ANALYTICAL RESULTS

Project: MAUTHE N1866A05/003

Pace Project No.: 406684

Sample: OUTFALL 001	Lab ID:	406684001	Collecte		04:28	Received: 07/	22/08 13:35 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD /	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytica	I Method: SM :	3500-Cr B (C	Online)					
Chromium, Hexavalent	0.74 r	ng/L	0.057	0.017	5		07/22/08 15:00	18540-29-9	

Date: 07/23/2008 01:55 PM

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REPORT OF LABORATORY ANALYSIS

Page 6 of 8



ace Analytical www.pacelabs.com

QUALITY CONTROL DATA

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Project: Pace Project No.:	MAUTHE N 406684	1866A05/00)3										
QC Batch:	WETA/199	4	·	Analys	is Meth	od:	SM 3500-Cr I	3 (Online)	,				
QC Batch Method:	SM 3500-0	Cr B (Online)	Analys	is Desc	ription:	Chromium, H	exavalent	by 3500				
Associated Lab Sa	mples: 4066	584001											
METHOD BLANK:	54802				. ·						····		• • • • • • • • • • • • • • • • • • •
Associated Lab Sa	mples: 4066	584001											
Parar	meter		Units	Blank Resul		Reporting Limit	Qualifier	rs					
Chromium, Hexava	alent	mg/L		<0.0	0034	0.01	1					·	
LABORATORY CO	ONTROL SAM	PLE: 5480)3		<u> </u>								
Parar	meter		Units	Spike Conc.		CS esult	LCS % Rec	% Re Limit		Qualifiers			
Chromium, Hexava	alent	mg/L		.3		0.31	103	90	0-110		-		
MATRIX SPIKE &			ATE: 54804		<u> </u>	54805							
			406684001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parame	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD		Qual

1.5

2.2

2.4

98

110 90-110

8 20

1.5

0.74

Date: 07/23/2008 01:55 PM

Chromium, Hexavalent

mg/L

.

REPORT OF LABORATORY ANALYSIS

Page 7 of 8





QUALIFIERS

Project: MAUTHE N1866A05/003 Pace Project No.: 406684

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 07/23/2008 01:55 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 8



Sa	mple Conditio	n Upon Receipt		
Pace Analytical Client Name	e: Onen	m	Project # _	406684
Courier: 🗍 Fed Ex 🗍 UPS 🗍 USPS 🗍 Clie Tracking #:	ent 🗌 Commercial	Pace Other		nals. Due Date
Custody Seal on Cooler/Box Present: yes	🗹 no Sea	ls intact: 🔲 yes 🗌] no	Name 🦂 🥻
Packing Material: 🗌 Bubble Wrap 🛛 Bubble	e Bags 🕅 None	Other		
	Type of Ice: We	~] Samples on ice,	cooling process has begun
Thermometer Used NA Cooler Temperature NOT Temp should be above freezing to 6°C	Biological Tissu	e is Frozen: Yes No Comments:	Date and In contents:	tials of person examining L(122/57 L17/22/07
Chain of Custody Present:	Bres []NO []N/	A 1.	·	
Chain of Custody Filled Out:	BPres []NO []N/	A 2.		
Chain of Custody Relinguished:	Bres []NO []N/	A 3.		
Sampler Name & Signature on COC:	897es □No □N//	A 4	<u> </u>	
Samples Arrived within Hold Time:	Dres []NO []N/			
Short Hold Time Analysis (<72hr):	BYes DNO DN/	A 6.		
Rush Turn Around Time Requested:	OYes ONO ON/			
Sufficient Volume:	Pres DNO DN/	8.		
Correct Containers Used:	Øyes []No []N/A	9.		
-Pace Containers Used:	Wes INO IN/A			
Containers Intact:	Ques []NO []N/A	10.		
Filtered volume received for Dissolved tests	DYes DNO DANA	11.		
Sample Labels match COC:	Øyes Ono On/A	12.		
-Includes date/time/ID/Analysis Matrix: All containers needing preservation have been checked.	/	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	 □Yes □No ØN/A		· · · · · · · · · · · · · · · · · · ·	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	OYes ONo	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:				
Headspace in VOA Vials (>6mm):				
Trip Blank Present:	□Yes □No ØN/A			
Trip Blank Custody Seals Present	□Yes □No 100/A			
Pace Trip Blank Lot # (if purchased):]		
Client Notification/ Resolution:			Field Data Requi	red? Y / N
Person Contacted:	Date/	Time:	<u></u>	
Comments/ Resolution:			· · · · · · · · · · · · · · · · · · ·	
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1	·····		<u> </u>	$\overline{)}$
Project Manager Review:			Date:	11 C 4.08

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

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	(Please Print Clearly)				7									1.1	Page 1	of L
Company Name:	OMNNI ASSoc	LIATES	/	/		nahd	rical *			MN: 6	12-607-	1700	WI: 920-469-2436			
Branch/Location:	APPLETON		/-	10	ice A	I ICI Y L vw.paceia	IGCI bs.com					1	<u></u>			
Project Contact:	BRIAN WAY.	DER	(Quote #:	<u> </u>	LAUTHE	
Phone:	920/830-614		,	<u> </u>	<u> 1AI</u>		<u>)F C</u>		<u>TO</u>	<u>DY</u>			Mall To Contact:	BRIN	AN WAYO	DRL
Project Number:	N1866A05/002		A=None		. C=H2S	04 D=H	ervation Co NO3 E=D	Water		iol G=N	аОН		Mall To Company:	Ome	UNI ASSOC	LATES
Project Name:	MAUTHE		H=Sodiul	m Bisulfate	Solution	l≃So	dium Thlosu	ulfate J	=Other		J		Mall To Address:	ONE	SYSTEMS	ORIVE
Project State:	ا دی		FILTERED (YES/NO	D7		\mathcal{S}								APP	kton, w	164914
Sampled By (Prin	11: BRIAN WAY	URR	PRESERVA (CODE)	TION 劇		A							Invoice To Contact:	Beig	w Wayn	NCR.
Sampled By (Sig		4						T					Invoice To Company:		ומא	
PO #:		Regulatory Program:			yses Requested								Invoice To Address:			
Data Package	Options MS/MSD		ix Codes			5									park	
(billable)	On your sample	B = Blota (W ≈ Water DW ≃ Drinking V	Vater	S. S. S.	3							· · · · ·			
	vel IV NOT needed on	O=Oil S	GW = Ground W SW = Surface W WW = Waste Wi	Vater Vater		2							Invoice To Phone:		<u> </u>	·····
	your sample		WP = Wipe.		Analyses Request	CHEO						1	CLIENT COMMENTS	1		Profile #
PACE LAB #	CLIENT FIELD ID	DATE	TIME										COMMENTS	<u> </u>	Use Only)	 -
001	OUTFALL COI	1/22/08	4:28 0			<u>× </u>								1- N.	50ucl A	
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(Rush TAT	round Time Requested - Preli subject to approval/surcharge ate Needed:	e)	uished By:	d. Ub	gun	7/22	Date/Time:	5120	*	Received	M	elle.	Date Time: 7/22/88	8.40	PACE Pro 406	olo EU
	Rush Results by (complete what you v		D. W	tel	he	7/23/	08	13!	35	Ő	<u>7".</u> [[al	un 7/22/08	2 13:35	Receipt Temp = ;	10-
Email #1:		Relinqu	uished By:			1 7	Date/Time:			Received	By:		Date/Time:			we
Email #2: Telephone:	<u> </u>	Relina	uished By:				Date/Time:		<u> </u>	Received			Date/Time:		Sample Re OK / Ad	
Fax:	······································														Cooler Cus	_
•	les on HOLD are subject to pricing and release of liability	Relinqu	uished By:				Date/Time:	:		Received	By:		Date/Time:		Present / No Intact / No Vemion 6.0 06/14/05	ot Present



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

July 31, 2008

RECEIVED AUG 0,5 2008 OMNNI ASSOCIATES

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

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 406990

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8





CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 406990

Green Bay Certification IDs Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951 Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334

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

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

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REPORT OF LABORATORY ANALYSIS

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Page 2 of 8



SAMPLE SUMMARY

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
406990001	OUTFALL 001	Water	07/29/08 07:04	07/29/08 13:15	
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REPORT OF LABORATORY ANALYSIS

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Page 3 of 8



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SAMPLE ANALYTE COUNT

				Analytes	
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory
406990001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1	PASI-G
-					
	• •				
				•	

REPORT OF LABORATORY ANALYSIS

Page 4 of 8



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PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 406990

Method: SM 3500-Cr B (Online)

Description: Chromium, Hexavalent Client: OMNNI ASSOCIATES, INC. Date: July 31, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

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REPORT OF LABORATORY ANALYSIS

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Page 5 of 8



ANALYTICAL RESULTS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 406990

Sample: OUTFALL 001	Lab ID:	406990001	Collecter	d: 07/29/0	8 07:04	Received:	07/29/08 13:15	Matrix: Water	<u></u>
Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytica	I Method: SM	3500-Cr B (C	Online)			·		
Chromium, Hexavalent	0.70 r	ng/L	0.057	0.017	5		07/29/08 16:	00 18540-29-9	

Date: 07/31/2008 05:08 PM

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REPORT OF LABORATORY ANALYSIS

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Page 6 of 8

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QUALITY CONTROL DATA

	42 Cr B (Online) 990001		-	s Method s Descrip		SM 3500-Cr I Chromium, H		by 3500			
METHOD BLANK: 57992											
Associated Lab Samples: 406	990001			_							
Parameter		Units	Blank Result		eporting Limit	Qualifier	s				
Chromium, Hexavalent	mg/L		<0.0	034	0.01	1					
LABORATORY CONTROL SAM	APLE: 57993	3		<u></u>	<u> </u>						
Parameter		Units	Spike Conc.	LCS Resu		LCS % Rec	% Rec Limits		ualifiers		
Chromium, Hexavalent	mg/L		.3	•	0.31	102	90	-110		- · . · ·	•.
MATRIX SPIKE & MATRIX SPII		TE: 57994 06990001 Result	MS Spike Conc.	MSD Spike Conc.	57995 MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD RPD	Qua
Chromium, Hexavalent	mg/L	0.70	1.5	1.5	2.3		107	102	90-110		
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• Date: 07/31/2008 05:08 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 8



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QUALIFIERS

ect [.]	MALITHE OUTFALL N1866A05/003	

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Project:

Pace Project No.: 406990

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.

LOS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 07/31/2008 05:08 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 8



Sa Sa	ample Condition	n Upon Receipt		
Pace Analytical Client Nam	e: Omu		Project #	404990
Courier: Fed Ex UPS USPS CI	ient Commercial	Pace Other	Prois	nal 4 Due Dates - 17 August Names - 2
Custody Seal on Cooler/Box Present: 🗌 yes	s 🗹 no Seals	s intact: 🗌 yes	no	Mille:
Packing Material: Bubble Wrap Bubb	le Bags 🖉 None	Other		
Thermometer Used NA	Type of Ice: (Wet		Samples on ice, c	cooling process has begun
Cooler Temperature 201 Temp should be above freezing to 6°C	Biological Tissue	is Frozen: Yes No Comments:		tials of person examining
Chain of Custody Present:		1.		· · · · · · · · · · · · · · · · · · ·
Chain of Custody Filled Out:		2.	·	
Chain of Custody Relinguished:		3.		
Sampler Name & Signature on COC:		4.		
Samples Arrived within Hold Time:		5.		
Short Hold Time Analysis (<72hr):	Yes No N/A	6. Hex chro	ne	
Rush Turn Around Time Requested:		7.		
Sufficient Volume:		8.		
Correct Containers Used:		9.		
-Pace Containers Used:				
Containers Intact:	Yes DNO DNA	,10.		
Filtered volume received for Dissolved tests		11.		
Sample Labels match COC:		12.		
-Includes date/time/ID/Analysis Matrix:				
All containers needing preservation have been checked.		13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes □No □N/A			
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:		14.		
Headspace in VOA Vials (>6mm):		15.		
Trip Blank Present:		16.		
Trip Blank Custody Seals Present	/ 			
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:			Field Data Baswin	red? Y / N
Dereen Contented	Date/	Time:	Field Data Requir	cu: ĭ / เพ
Comments/ Resolution:				
				······································
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<i>A</i>				$\overline{)}$
Project Manager Review:			Date:	<u></u>
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

	(Please Print Clearly)					UPPER MIDWEST	REGION	Page 1 of 1	
Company Nar	me: OMNNI ASSOCIA			1 1		MN: 612-607-1700	WI: 920-469-2436	•	
Branch/Locat				alytical [®]			·	·	
Project Conta			<i>ww</i> .	pacenaus.com			Quote #:	MAUTHE	
Phone:	920/830-6141		CHAIN		STO	DY _	Mail To Contact:	BRIAN WAYNER	
Project Numb		A=None B=	HCL C=H2SO4	*Preservation Codes D=HNO3 E=DI Wate	r F=Methan	ol G=NaOH	Mall To Company:	OMNNI	
Project Name		H=Sodium Bisu	Ifate Solution	I=Sodium Thiosuifate	J=Other		Mail To Address:	ONE SYSTEMS DR.	
Project State:	: 61	FILTERED? (YES/NO)	N N					APPLATON, WI JY914	
Sampled By ((Print): BRIAN WAYNE	PRESERVATION (CODE)*	Teleki A				Invoice To Contact:	BRIAN WAYNER	
Sampled By (Invoice To Company:	0~~~~	
PO #:	Regula Progr		Requested in the second				Invoice To Address:	SAME	
	age Options MS/MSD able) On your sample A = Air B = Biote	Matrix Codes W = Water						3/	
	A Level III (billable) C = Charc (billable) C = Charc A Level IV NOT needed on O = Oil S = Soil	OW = Drinking Water oal GW = Ground Water SW = Surface Water					Invoice To Phone:		
PACE LAB'#	your sample S = Soli SI = Sludg	COLLECTION					CLIENT COMMENTS	LAB COMMENTS Profile # (Lab Use Only)	
001	~	ATE TIME Eg(os 1:04 Gw	X				1-250mA		
	SOTTING SOT			+			120,000		
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Buch Tu	Irnaround Time Requested - Prelims							·····	
	TAT subject to approval/surcharge)	Relinquished By:	Jayan.	Date/Time: 7/29/08 -	7156	Received By:	7/15/20	PACE Project No.	
	Date Needed:	Relinquished By		. / Date/Time:	315	Received By	Date/Time:	406970	
Transmit Prei Email #1:	alim Rush Results by (complete what you want):	Relinguished By:	pen i	27/08 19 Date/Time:		<u>/</u>	7/29/08 /	3/2 Receipt Temp = 20\ °C	
Email #1: Email #2:		//		C Date/Time.		Received By: V	/ Date/Time:	Sample Receipt pH	
Telephone:		Relinquished By:		Date/Time:		Received By:	Date/Time:	OK / Adjusted	
Fax:								Cooler Custody Seal	
	Samples on HOLD are subject to ecial pricing and release of liability	Relinquished By:		Date/Time:		Received By: Date/Time: Present / Not Present Intact / Not Intact			
		••••••••••••••••••••••••••••••••••••••						Version 6.0 08/14/05	



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, W 54302 (920)469-2436

August 11, 2008

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

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 407315

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

A

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 10





CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407315

Green Bay Certification IDs Florida (NELAP) Certification #: E87948 Illinois Certification #: 200050 New York Certification #: 11888 North Dakota Certification #: R-150 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951 Illinois Certification #: 200051 New York Certification #: 11887 North Dakota Certification #: R-200 North Carolina Certification #: 503 Minnesota Certification #: 055-999-334

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

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

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: Pace Project I	MAUTHE OUTFALL N1866 No.: 407315	6A05/003		
Lab ID	Sample ID	Matrix	Date Collected	Date Received
407315001	OUTFALL 001	Water	08/05/08 07:10	08/05/08 13:50

REPORT OF LABORATORY ANALYSIS

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Page 3 of 10



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SAMPLE ANALYTE COUNT

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003 No.: 407315		* v * *					
Pace Project No.:	Sample ID	Method	Analysts	Analytes Reported	Laboratory			
407315001	OUTFALL 001	EPA 6010	ĎLB	1	PASI-G			
		SM 3500-Cr B (Online)	DEY	1	PASI-G			

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407315

Method:EPA 6010Description:6010 MET ICPClient:OMNNI ASSOCIATES, INC.Date:August 11, 2008

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003

407315 Pace Project No.:

Method: SM 3500-Cr B (Online)

Description: Chromium, Hexavalent Client: **OMNNI ASSOCIATES, INC.** Date: August 11, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

Page 6 of 10





MAUTHE OUTFALL N1866A05/003

Project:

ANALYTICAL RESULTS

Pace Project No.: 407315 Sample: OUTFALL 001	Lab ID	: 407315001	Collecte	d: 08/05/0	8 07:10	Received: 08/	ived: 08/05/08 13:50 Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Quał		
6010 MET ICP	Analytica	al Method: EPA	6010 Prep	aration Met	hod: EP	PA 3010					
Chromium	1260	ug/L	5.0	1.1	1	08/06/08 08:28	08/07/08 15:12	7440-47-3			
Chromium, Hexavalent	Analytica	al Method: SM 3	3500-Cr B ((Online)							
Chromium, Hexavalent	1.3	mg/L	0.28	0.085	25		08/05/08 16:45	18540-29-9			

L

Date: 08/11/2008 04:24 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pace Project No.:	MAUTHE OU 407315	JTFALL N1	866A05/003										
QC Batch:	MPRP/1598	В.		Analys	is Method:	: E	PA 6010				•		
QC Batch Method:	EPA 3010			Analys	is Descrip	tion: 6	010 MET						
Associated Lab Sar	nples: 4073	15001											
METHOD BLANK:	61201					· · · ••·							
Associated Lab Sar	nples: 4073	15001											
Paran	neter		Units	Blank Resul		eporting Limit	Qualifie	rs					
Chromium		ug/L			<1.1	5.0)						
LABORATORY CO		PLE: 6120	2										
				Spike	LCS	;	LCS	% Rec	;				
Paran	neter		Units	Conc.	Resu	lt	% Rec	Limits	Qı	alifiers			
Chromium		ug/L		500		485	97	80	-120		-		
MATRIX SPIKE & M			ATE: 61203			61204			, <u></u>		<u> </u>		
				MS	MSD								
			407249001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium		ug/L	<5.0	500	500	483	484	97	97	75-125	.4	20	<u> </u>

Date: 08/11/2008 04:24 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

	315											
QC Batch: WI	ETA/2081	· • · · · ·	Analys	sis Method	: 5	SM 3500-Cr 8	3 (Online)					
QC Batch Method: SN	1 3500-Cr B (Online	e)	Analys	sis Descrip	tion: C	Chromium, H	exavalent l	y 3500				
Associated Lab Samples	407315001											
METHOD BLANK: 616	21											···
Associated Lab Samples	407315001											
			Blank		eporting							
Parameter		Units	Resu	lt	Limit	Qualifier	s					
Chromium, Hexavalent	mg/L		<0 .	0034	0.011	l						
LABORATORY CONTR	OL SAMPLE: 616	22										
			Spike	LCS	5	LCS	% Rec					
Parameter		Units	Spike Conc.	LCS Resu		LCS % Rec	% Rec Limits		ualifiers			
	mg/L			Resu			Limits		ualifiers	-		
Parameter		-	Conc.	Resu	ult	% Rec	Limits	Qi	ualifiers	-		
Parameter Chromium, Hexavalent		ATE: 61623	Conc. .3 MS	MSD	ult 0.31 61624	% Rec 104	Limits 90	Qu 110		-	Max	
Parameter Chromium, Hexavalent		-	Conc. .3	Resu	ult 0.31	% Rec	Limits	Qi	valifiers % Rec Limits	RPD	Max ⁻ RPD	Quai

Date: 08/11/2008 04:24 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407315

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 08/11/2008 04:24 PM

REPORT OF LABORATORY ANALYSIS

Page 10 of 10



	Sample Condition	n Upon Receipt	
Pace Analytical Client Nan	ne: <u>OMNN</u>		Project # 407315
Courier: 🗍 Fed Ex 🗍 UPS 🗍 USPS 🗍 C Tracking #:	Client Commercial	Pace Other	Optional States
Custody Seal on Cooler/Box Present: 🗌 y	es no Seals	s intact: 🔲 yes	no internet
Packing Material: DBubble Wrap Bub	oble Bags None	Other	
Thermometer Used place	Type of Ice: We	Blue None	Samples on ice, cooling process has begun
Cooler Temperature RCT Temp should be above freezing to 6°C		e is Frozen: Yes No Comments:	Date and Initials of person examining contents: 0 5 08 MR
Chain of Custody Present:		1	
Chain of Custody Filled Out:		2.	
Chain of Custody Relinquished:		3	
Sampler Name & Signature on COC:	Yes DNO DNA	4.	
Samples Arrived within Hold Time:	Yes DNO DN/A	5.	
Short Hold Time Analysis (<72hr):		6.	
Rush Turn Around Time Requested:	UYes DNO ON/A	7.	
Sufficient Volume:		8.	
Correct Containers Used:	PYes Ino In/A	9.	
-Pace Containers Used:	Dives INO INVA		
Containers Intact:		10.	
Filtered volume received for Dissolved tests	Yes DNO DN/A	11.	
Sample Labels match COC:	Dives Ono On/A	12.	
-Includes date/time/ID/Analysis Matrix:	$\dot{\mathcal{W}}$		
All containers needing preservation have been checked.	PYes ONO ONA	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	ØYes Ono Onva		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)		Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	UYes ONO DIVA	14.	
Headspace in VOA Vials (>6mm):		15	
Trip Blank Present:	UYes UNO ZINVA	16.	
Trip Blank Custody Seals Present	QYes QNo BINA		
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution:	·····		Field Data Required? Y / N
Person Contacted:	Date/	Time:	·
Comments/ Resolution:	······································		· · · · · · · · · · · · · · · · · · ·
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<i>_</i>			
Project Manager Review:			Date:

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)

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Project Conta	ict:		AN WAY	VER	1 /			www.pi	ecelabs.c							Quote #:	MAU	THE	
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Project Numb	er:		566A05/0				HCL C		Preserve	tion Coc	les	F=Methar]	Mail To Company:		NI ASSOC	
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			(billable)	B = Biota C = Charcoal O = Oil	DW = Drink GW = Grou SW = Surfa	nd Water	6.1	520	10							Invoice To Phone:		C	
🔲 EPA	A Level I	× I	NOT needed on your sample	S = Soil SI = Sludge	WW = Was WP = Wipe	te Water	Analyzes/Regitested	HEXAVA	CHPO				1		1	CLIENT	LAB C	OMMENTS	Profile #
PACE LAB #		CLIEN	IT FIELD ID	DATE	TIME	MATRIX		Ťΰ	ປ		l					COMMENTS	(Lab l	Jse Only)	
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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

AUG 18 2008

OMNNI ASSOCIATES

August 14, 2008

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

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 407657

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8





CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407657

Green Bay Certification IDs

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

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

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

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

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: Pace Project No	MAUTHE OUTFALL N1866A05/003				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
407657001	OUTFALL 001	Water	08/12/08 06:07	08/12/08 11:25	

REPORT OF LABORATORY ANALYSIS



ace Analytical ww.pacelabs.com

SAMPLE ANALYTE COUNT

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003 No.: 407657				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
407657001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 407657

Method: SM 3500-Cr B (Online)

Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:August 14, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: WETA/2105

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 407657001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 63894)
 - Chromium, Hexavalent

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS





ANALYTICAL RESULTS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407657

Sample: OUTFALL 001	Lab ID:	407657001	Collected	: 08/12/08	06:07	Received: 08/	/12/08 11:25 M	Matrix: Water		
Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Chromium, Hexavalent	Analytical	Method: SM 3	3500-Cr B (O	nline)						
Chromium, Hexavalent	1.2 n	ng/L	0.057	0.017	5		08/12/08 15:30	18540-29-9	мо	

Date: 08/14/2008 07:58 AM

REPORT OF LABORATORY ANALYSIS

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

nebc

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QUALITY CONTROL DATA

	MAUTHE OU 407657	ITFALL N1	I866A05/003										
QC Batch:	WETA/2105	5		Analys	sis Method	: 5	SM 3500-Cr	B (Online)					
QC Batch Method:	SM 3500-C	r B (Online	;)	Analys	sis Descrip	tion: C	Chromium, H	lexavalent	by 3500				
Associated Lab Sam	ples: 4076	57001											
METHOD BLANK:	63892												
Associated Lab Sam	ples: 4076	57001											
				Blank		eporting							
Param	eter		Units	Resu	lt	Limit	Qualifie	rs					
Chromium, Hexaval	ent	mg/L		<0.	0034	0.01	1						
LABORATORY COI		PLE: 6389	93										
				Spike	LCS	5	LCS	% Rec	;				
Param	eter		Units	Conc.	Resu	ılt	% Rec	Limits	Q	ualifiers			
Chromium, Hexaval	ent	mg/L		.3		0.30	99	90	-110		•		
MATRIX SPIKE & M			ATE: 63894			63895							
				MS	MSD								
			407657001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexaval	ent	mg/L	1.2	1.5	1.5	2.9	2.7	114	102	90-110	6	20	MO

Date: 08/14/2008 07:58 AM

REPORT OF LABORATORY ANALYSIS





QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 407657

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 08/14/2008 07:58 AM

REPORT OF LABORATORY ANALYSIS



Sa	mple Condition	n Upon Receipt	l
Pace Analytical Client Name		Assoc F	Project # 107657
Courier: Fed Ex UPS USPS Clive Tracking #:	ent Commercial	Pace Other	Optionals Pro NDIe Date State 2005 Pro Name Salation
Custody Seal on Cooler/Box Present: 🗌 yes	no Seals	s intact: 🗌 yes 📋	no
Packing Material: 🗍 Bubble Wrap 🛛 Bubbl	e Bags None	Other	
Thermometer Used NIA	Type of Ice: We	Blue None	Samples on ice, cooling process has begun
Cooler Temperature RCL Temp should be above freezing to 6°C	Biological Tissue	e is Frozen: Yes No Comments:	Date and Initials of person examining contents: 8 12 CA F
Chain of Custody Present:	ØYes ONO ON/A	1.	
Chain of Custody Filled Out:	ØYes DNO DN/A		-
Chain of Custody Relinquished:		3.	
Sampler Name & Signature on COC:	VYes DNO DNA	4.	
Samples Arrived within Hold Time:		5.	
Short Hold Time Analysis (<72hr):	EYes ONO ON/A	6. HEKA CHIPE	me
Rush Turn Around Time Requested:			
Sufficient Volume:		8.	
Correct Containers Used:	Yes INO IN/A	9.	
-Pace Containers Used:			
Containers Intact:	PYes DNO DNA	10.	
Filtered volume received for Dissolved tests		11.	
Sample Labels match COC:	EYes DNO DN/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u> </u>		
All containers needing preservation have been checked.	OYes ONO ENVA	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	Dyes Ono Øn/a		· · · · · · · · · · · · · · · · · · ·
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	UYes ONO DINA	14	
Headspace in VOA Vials (>6mm):	OYes ONO ØNVA	15.	
Trip Blank Present:	OYes ONO DIVIA	16.	
Trip Blank Custody Seals Present	OYes ONO ONA	·	
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution:		<u></u>	Field Data Required? Y / N
Person Contacted:	Date/		
Comments/ Resolution:			
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		<u></u>	19hr 1m)
Project Manager Review:			Date: 8/10/07
			to cont to the North Corpline DEUNR

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)	Ϋ́	^			UPPE	R MIDWEST	REGION	Page 1 of
Company Name: MANNY ASSOCIATE	5	/			MN: 6	12-607-1700	WI: 920-469-2436	· · · · · ·
Branch/Location: ACAPTON		ace Anal	vtical°					
Project Contact: 1200 m Wayne			elebs.com				Quote #:	MALIFAP
		HAIN		ICT	יחר		Mall To Contact:	Princip 11 Munper
Phone: $4201830-6141$		and the second	UF UC		וענ	1	Mail To Company:	COMPANY AND CONSTR
Project Number: N/866405/005	A=None B=HC H=Sodium Blsulfa		=HNO3 E=DI W =Sodium Thiosulfa			aOH		O
Project Name:						/ 	Mail To Address:	ONE SUSTERNS DIVE
Project State:	(YES/NO)							HODELDY), WI DAMIA
Sampled By (Print): Brian Walner	PRESERVATION (CODE)*	Center A					Invoice To Contact:	Isrian Wayner
Sampled By (Sign): Bi D. Waynes							Involce To Company:	Omni ASSOCIATES
PO #: Regulat Progra		1 + J					Invoice To Address:	m map.
Data Package Options MS/MSD	latrix Codes	50						same>
(billable) On your sample B = Blota EPA Level III (billable) C = Charge	W = Water DW = Drinking Water GW = Ground Water	Valia 202					Invoice To Phone:	(
	SW = Ground Water SW = Surface Water WW = Waste Water	5.2						
your sample Si = Sludge	WP = Wipe	S JU					CLIENT COMMENTS	LAB COMMENTS Profile #
PACE LAB# CLIENT FIELD ID						<u> </u>	COMMENTS	(Lab Use Only)
001 DUTFallOOI $8/12$								1-250 mc Poly
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-						<u> </u> ── <u></u> <u>+</u> ···		
					·	┣━┉┟──	,	
Rush Turnaround Time Requested - Prelims			Date/Time:		Receive	<u>ь</u>	Date/Time:	PACE Project No.
(Rush TAT subject to approval/surcharge)	Bid. We	ayru	8/12/08	6:50A	M	Acing	en dilla	0915 107101
Transmit Prelim Rush Results by (complete what you want):	elinquished av:	Uper	Date/Time/	112	Redelve	XXXX		1/25 Becelet Temps Oct 77 10
Email #1:	elinquished By:	-prove	Date Time:		Receive	IBY.	Date/Time:	Receipt Temp = ROI °C
Email #2: Telephone:	elinguished By:	<i>[</i>	-		- <u> </u>		·····	Sample Receipt pH
Fax:	enndülsted by: 🕴	1	Date/Time:		Receive	I By:	Date/Time:	OK / Adjusted Cooler Custody Seal
	elinquished By:		Date/Time:		Receive	l By:	Date/Time:	Present / Rot Present)
special pricing and release of liability				······			·····	Intact / Not Intact Version 6.0 06/14/02



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

August 21, 2008

RECEIVED AUG 26 2008 OMNNI ASSOCIATES

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

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 407934

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8





CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407934

Green Bay Certification IDs

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

Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169 Kentucky Certification #: 83 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Dakota Certification #: R-150 New York Certification #: 11888 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87948

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

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407934

.

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
407934001	OUTFALL 001	Water	08/19/08 06:32	08/19/08 13:50	
		. · · ·			

REPORT OF LABORATORY ANALYSIS

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Page 3 of 8



SAMPLE ANALYTE COUNT

Pace Project N	No.: 407934	i					
Lab ID	Sample ID	Method	، Analysts	Analytes Reported	Laboratory		
407934001	OUTFALL 001	SM 3500-Cr B (Online)	DEY		PASI-G		

REPORT OF LABORATORY ANALYSIS

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Page 4 of 8



PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407934

SM 3500-Cr B (Online) Method: Description: Chromium, Hexavalent OMNNI ASSOCIATES, INC. Client: August 21, 2008 Date:

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

Page 5 of 8





ANALYTICAL RESULTS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 407934

Sample: OUTFALL 001	Lab ID:	Lab ID: 407934001			3 06:32	Received: 08/	19/08 13:50 M	Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Chromium, Hexavalent	Analytica	Method: SM	3500-Cr B (C	Online)						
Chromium, Hexavalent	0.98 r	ng/L	0.11	0.034	10		08/19/08 15:15	18540-29-9		

Date: 08/21/2008 04:52 PM

REPORT OF LABORATORY ANALYSIS

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Page 6 of 8

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QUALITY CONTROL DATA

	MAUTHE OUTF/ 407934	ALL N1866A05/00	3									
QC Batch:	WETA/2156		Analys	is Method	: S	M 3500-Cr E	(Online)					
QC Batch Method:	SM 3500-Cr B ((Online)	Analys	Analysis Description:			exavalent t	oy 3500				
Associated Lab Sam	ples: 4079340	01										
METHOD BLANK:	67203											
Associated Lab Sam	ples: 4079340	01										
Parame	eter	Units	Blank Resuli		eporting Limit	Qualifiers	5					
Chromium, Hexavale		mg/L		0034	0.011		- <u>.</u>					
LABORATORY CON	ITROL SAMPLE	67204										
			Spike	LCS	5	LCS	% Rec					
Parame	eter	Units	Conc.	Resu	lt	% Rec	Limits	Qu	alifiers			
Chromium, Hexavale	ent .	mg/L	.3		0.29	98	90-	110		•		
MATRIX SPIKE & M	ATRIX SPIKE DI	UPLICATE: 6720	5	<u></u>	67206							. <u> </u>
			MS	MSD								
		407934001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r	Units Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexavale	ent mgi	/L 0.98	3	3	4.1	4.1	103	103	90-110	.3	20	

Date: 08/21/2008 04:52 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 8





QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 407934

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 08/21/2008 04:52 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 8



	Sample Conditio	n Upon Receipt		
Pace Analytical Client Na	me: <u>Omhni</u>		Project #	407934
Courier: Fed Ex UPS USPS Tracking #:	Client Commercia	Pace Other	Optional CrossDac	in an
Custody Seal on Cooler/Box Present:	yes 🛛 no Sea	ls intact: 🔲 yes	no Froit Nar	
Packing Material: 🗍 Bubble Wrap 🛛 Bu	Ibble BagsNone	Other		
Thermometer Used	Type of Ice: We	E Blue None	Samples on ice, cooli	ng process has begun
Cooler Temperature ROT		e is Frozen: Yes No Comments:	Date and Initials contents: <u>8</u> 11	of person examining 900 LLS
Chain of Custody Present:	Pres ONO ONA	T		· · · · · · · · · · · · · · · · · · ·
Chain of Custody Filled Out:			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Chain of Custody Relinguished:	BYes DNO DNA			· · · · · · · · · · · · · · · · · · ·
Sampler Name & Signature on COC:	ElYes DNo DN/	······································	· · · · · · · · · · · · · · · · · · ·	
Samples Arrived within Hold Time:	ElYes DNO DN/		<u></u>	
Short Hold Time Analysis (<72hr):	DYes DNO DNA			
Rush Turn Around Time Requested:	DYes DNO DNA			
Sufficient Volume:			<u> </u>	·····
Correct Containers Used:	EYes DNO DN/A	1		·····
-Pace Containers Used:	Dres ONO ON/A			
Containers Intact;	DYes ONO ON/A			
Filtered volume received for Dissolved tests				· · · ·
Sample Labels match COC:	UYes DNO DN/A	1		
-Includes date/time/ID/Analysis Matrix:				
All containers needing preservation have been checked.	UYes DNO DIVA	10		
All containers needing preservation are found to be in compliance with EPA recommendation.				
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yés □No	Initial when completed	Lot # of added preservative	
Samples checked for dechlorination:		14		
Headspace in VOA Vials (>6mm):	QYes DNO DINVA	15.		
Trip Blank Present:	UYes UNO ZINVA	16.		
Trip Blank Custody Seals Present	OYes ONO ANA	· ·		
Pace Trip Blank Lot # (if purchased):			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Client Notification/ Resolution:			Field Data Required?	Y / N
Person Contacted:	Date/	lime:		
Comments/ Resolution:				
				· · · · · · · · · · · · · · · · · · ·
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	··			11010
Project Manager Review:			Date:	11 9/1/8

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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)

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			(billable)	B = Biota C = Charce O = Oll	oal G\	W = Drinkii W = Groun W = Surfac	d Water		220							[Invoice To P	hone:		,	
EPA	A Level I	V	NOT needed on your sample	S = Soll SI = Sludg	w	W = Waste P = Wipe		N.C.	25					·			CLIEN	Ť	LAB C	OMMENTS	Profile #
CE LAB'#			NT FIELD ID	·	COLLECT	TION	MATRIX		Ξ	Y							COMME			Use Only)	
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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

August 27, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654 AUG 2 9 2008 OMNNI ASSOCIATES

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408196

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on August 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Stevén Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8





CERTIFICATIONS

Project:MAUTHE OUTFALL N1866A05/003Pace Project No.:408196

Green Bay Certification IDs

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

Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169 Kentucky Certification #: 83 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Dakota Certification #: R-150 New York Certification #: 11888 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87948

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

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: Pace Project N	MAUTHE OUTFALL N1866A05/	003				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	······	
408196001	OUTFALL 001	Water	08/26/08 07:02	08/26/08 15:30		

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003 No.: 408196	· · · · · · · · · · · · · · · · · · ·										
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory							
408196001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1	PASI-G							

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408196

Method: SM 3500-Cr B (Online)

Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:August 27, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS





ANALYTICAL RESULTS

Project: Pace Project No.:	MAUTHE O 408196	UTFALL N1866A	\05/003							
Sample: OUTFAL	L 001	Lab ID	408196001	Collecte	d: 08/26/08	3 07:02	Received: 08/	26/08 15:30 M	atrix: Water	
Parame	eters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexav	alent	Analytica	I Method: SM 3	500-Cr B (0	Online)					
Chromium, Hexava	lent	1.1	mg/L	0.057	0.017	5		08/26/08 15:40	18540-29-9	

Date: 08/27/2008 11:30 AM

REPORT OF LABORATORY ANALYSIS

Page 6 of 8

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nelac



QUALITY CONTROL DATA

Project: MAUTH Pace Project No.: 408196	E OUTFALL N1866A05/003	3									
QC Batch: WETA	/2200	Analysis	Method:	S	M 3500-Cr I	3 (Online)			_		
QC Batch Method: SM 35	00-Cr B (Online)	Analysis	Descripti	ion: C	hromium, H	exavalent	by 3500				
Associated Lab Samples:	408196001										
METHOD BLANK: 69700		Ma	atrix: Wate	er							
Associated Lab Samples:	408196001										
Parameter	Units	Blank Result		porting Limit	Analyz	ed	Qualifiers				
Chromium; Hexavalent	mg/L	<0.00	034	0.011	08/26/08	15:40		_			
LABORATORY CONTROL	SAMPLE: 69701					-					
		Spike	LCS		LCS	% Rec	;				
Parameter	Units	Conc.	Resul	t	% Rec	Limits	Qu	alifiers			
Chromium, Hexavalent	mg/L	.3		0.30	101	90	-110		-		
MATRIX SPIKE & MATRIX	SPIKE DUPLICATE: 69702	2		69703							
		MS	MSD								
	408196001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parameter	Units Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexavalent		1.5	1.5	2.5	2.5	100	94	90-110	3	20	

Date: 08/27/2008 11:30 AM

REPORT OF LABORATORY ANALYSIS





QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 408196

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 08/27/2008 11:30 AM

REPORT OF LABORATORY ANALYSIS

Page 8 of 8



Project # 408.194 Client Name:		Sample Condition	on Upon Receipt		
Tracking #: Custody Seal on Cooler/Box Present: yes no Seals indact: yas no Packting Materiat: Bubble Wap Bubble Bags None Other	Pace Analytical Client Nan	ne: DM	11 ASSOC.	Project # <u>40819(</u>	_l
Custody Seal on Cooler/Box Present: Uses Ino Seals intact: Uses Internets: Incoments: Incomen	Tracking #:		Pace Other	Phylocitale states	
Thermometer Used Type of fee: Weit Blue None Samples on be, cooling process has begun Biological Tissue is Frozen: Yes Biological Tissue is Frozen: Yes Date and Infility of present examples to a content. Chain of Custody Filled Out: Even Dive Dive Net Date and Infility of present examples to a content. Date and Infility of present examples to a content. Chain of Custody Filled Out: Even Dive Dive Dive Dive Dive Dive Dive Dive	Custody Seal on Cooler/Box Present: 🗌 y	es Q no Sea	ıls intact: 🔲 yes 📋		
Cooler Temperature Distribution Temp should be above freeding to 6°C Commonts: Temp should be above freeding to 6°C Chain of Custody Plestone commonts: Distribution Distribution Distribution Chain of Custody Plestone Distribution Distribution Distribution Distribution Chain of Custody Plestone Distribution	Packing Material: 🗍 Bubble Wrap 🛛 🗍 Bub	ble Bags None	Other		
Contents: Cut Contents:	Thermometer Used	Type of Ice: W	et Blue None] Samples on ice, cooling process has b	egun
Terms should be above teorang to 6°C Comments: ///> Chain of Custody Fresent: Dyes Dito Diva 1. Chain of Custody Relanguished: Dyes Dito Diva 2. Chain of Custody Relanguished: Dyes Dito Diva 4. Sampler Name & Signature on COC: Dyes Dito Diva 6. Starples Arrived within Hold Tame: Byes Dito Diva 6. Short Hold Time Analysis (<72hr):	Cooler Temperature	Biological Tissu	ie is Frozen: Yes No	Date and Initials of person exam	ining
Chain of Custody Filed Out: New Die	Temp should be above freezing to 6°C		<u>Comments: 11</u>		4
Chain ôf Custody Relinquished: Dyes Die Diva 3. Samples Arrived within Hold Time: Dyes Die Diva 4. Samples Arrived within Hold Time: Dyes Die Diva 5. Stort Hold Time Analysis (<72hr);	Chain of Custody Present:	Dives DNO DN	A 1.	· · · · · · · · · · · · · · · · · · ·	
Sampler Name & Signature on COC: Qves Diro Diva 4. Samples Arrived within Hold Time: Diva Diva 5. Short Hold Time Analysis (<72hr):		QYes DNO DN	A 2.		
Samples Arrived within Hold Time: Des Divo 5. Short Hold Time Analysis (<72hr):	Chain of Custody Relinquished:	Dyes ONO ON	A 3.		·
Short Hold Time Analysis (<72hr):		QYes DNO DNA	A 4.		
Rush Turn Around Time Requested: Dive Dive Dive T. Sufficient Volume: Dive Dive Dive Dive B. Correct Containers Used: Dives Dive Dive Dive Dive Containers Used: Dives Dives Dive Dive Dive Dive Containers Used: Dives Dives Dive					
Sufficient Volume: Nves N	Short Hold Time Analysis (<72hr):	Yes DNO DNU	16. hexchrolle		
Correct Containers Used: Uves Uwo Uwo Uves Uwo Uwo Uves Uwo Uwo Uves Uwo Uwo Uves Uves Uwo Uves Uves Uves Uwo Uves Uves Uves Uves Uves Uves Uves Uves	Rush Turn Around Time Requested:	Oves QNO ON/	7.	<u></u>	
-Pace Containers Used: Bytes DNo DNA Containers Intact: Bytes DNo Bytes DNo Filtered volume received for Dissolved tests Ives DNo Bytes DNo Sample Labels match COC: Bytes DNo Bytes DNo Bytes -Includes date/lime/ID/Analysis Matrix: V Ital Ital All containers needing preservation have been checked. Dives DNo Bin/A compliance with EPA recommendation. Dives DNo Bin/A exceptions: VOA cotion, TOC, O&G, WHORO (water) Dives DNo Bin/A Samples checked for dechlorination: Dives DNo Bin/A Ital Headspace in VOA Vials (>6mm): Dives DNo Bin/A Ital Present: Dives DNo Div/A Ital Pace Trip Blank Lot # (if purchased): Date/Time:	Sufficient Volume:	Yes DNO DNV	8.		
Containers Intac: IVes IV	Correct Containers Used:	VYes DNO DNA	9.		
Filtered volume received for Dissolved tests Ives INo Byta 11. Sample Labels match COC: Byta Ives INo Byta 12. All containers needing preservation have been checked. Ives INo Ives Ives Ives All containers needing preservation have been checked. Ives INo Ives Ives Ives All containers needing preservation are found to be in compliance with EPA recommendation. Ives INo Ives Ives Ives Samples checked for dechlorination: Ives INo Byta Itälial when completed Ives of added Samples checked for dechlorination: Ives INo Byta 14. Ives Ives Headspace in VOA Vials (>6fmm): Ives INo Byta 15. Ives Ives Ives Trip Blank Custody Seals Present Ives INo Byta Ives I	-Pace Containers Used:	QYes DNO DNA	<u>.</u>		
Sample Labels match COC: Byes DNo DNVA 12. Includes date/time/ID/Analysis Matrix: V All containers needing preservation have been checked. Dves DNo DNVA 13. All containers needing preservation are found to be in compliance with EPA recommendation. Dves DNo DNVA 13. exceptions: VOA colform, TOC, O&G, WH-DRO (water) Dves DNo DNVA 14. Headspace in VOA Vials (>6mm): Dves DNo DNVA 15. Trip Blank Present: Dves DNo DNVA Trip Blank Custody Seals Present Dves DNo DNVA 16. Field Data Required? Y / N Pace Trip Blank Lot # (if purchased): Date/Time:	Containers Intact:	QYes DNO DNA	10.		
Includes date/time/ID/Analysis Matrix: N All containers needing preservation have been checked. DYes DNA 13. All containers needing preservation are found to be in compliance with EPA recommendation. DYes DNo DNA exceptions: VOA, cotionm, TOC, OAG, WHORO (water) DYes DNo DNA 14. Headspace in VOA Vials (>6mm): DYes DNo DNA 15. Trip Blank Present: DYes DNo DNA 16. Trip Blank Lot # (if purchased): DYes DNo DNA 16. Pace Trip Blank Lot # (if purchased): Date/Time: Date/Time: Comments/ Resolution: Y Y N Person Contacted: Date/Time: Date/Time: Comments/ Resolution: Y Y N	Filtered volume received for Dissolved tests	OYes ONO SINA	11.	·	
-Includes date/time/ID/Analysis Matrix: Ví All containers needing preservation have been checked. Uves Ives Ives Ives All containers needing preservation are found to be in compliance with EPA recommendation. Uves Ives	Sample Labels match COC:	Dixes Ono Onva	12.		
Dres Dro Dros 13. All containers needing preservation are found to be in compliance with EPA recommendation. Dres Dro Drova 13. Addition: Dres Dro Drova	-Includes date/time/ID/Analysis Matrix:	· · ·			
compliance with EPA recommendation. Difes DNo Initial when completed preservative exceptions: VOA, cottom, TOC, O&G, WH-DRO (water) Difes DNo Initial when completed preservative Samples checked for dechlorination: Difes DNo Nov. 14. Headspace in VOA Vials (>6mm): Difes DNo Nov. 15. Trip Blank Present: Difes DNo Dives DNo Nov. Pace Trip Blank Lot # (if purchased): Dives DNo Dives Client Notification/ Resolution: Field Data Required? Y / N Person Contacted: Date/Time:	All containers needing preservation have been checked.	OYes ONO QNVA	13.		
exceptions: VOA cotiom, TOC, O&G, WI-DRO (water) IYes INo completed preservative Samples checked for dechlorination: IYes INo Environmentation 14. Headspace in VOA Vials (>6mm): IYes INo Environmentation 15. Trip Blank Present: IYes INo Environmentation 16. Trip Blank Custody Seals Present IYes INo Environmentation Field Data Required? Y / N Pace Trip Blank Lot # (if purchased):	All containers needing preservation are found to be in compliance with EPA recommendation.	Oyes Ono Qinva	<u> </u>		
Samples checked for dechlorination: IYes INo DrvA 14. Headspace in VOA Vials (>6mm): IYes INo DrvA 15. Trip Blank Present: IYes INo DrvA 16. Trip Blank Custody Seals Present IYes INo DrvA Pace Trip Blank Lot # (if purchased):	exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yës □No			
Headspace in VOA Vials (>6mm): □Yes □No BivA 15. Trip Blank Present: □Yes □No DivA 16. Trip Blank Custody Seals Present □Yes □No DivA 16. Pace Trip Blank Lot # (if purchased):	Samples checked for dechlorination:		f		
Trip Blank Present: Image: Seals Present	Headspace in VOA Vials (>6mm):	/_		<u>.</u>	
Trip Blank Custody Seals Present Image: Display the seal of the seal	Trip Blank Present:			· · · · · · · · · · · · · · · · · · ·	
Pace Trip Blank Lot # (if purchased): Client Notification/ Resolution: Field Data Required? Y / N Person Contacted: Date/Time: Comments/ Resolution:	Trip Blank Custody Seals Present	c \	r	· · ·	
Person Contacted: Date/Time: Comments/ Resolution:	Pace Trip Blank Lot # (if purchased):				
Person Contacted: Date/Time: Comments/ Resolution:	Client Notification/ Resolution:			Field Data Required? Y / M	
		Date/	lime:		-
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Project Manager Review: Date: Date:					
	Project Manager Review:	R.		Date: 8-27-08	

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

(Please Print Clearly)			UPPER MIDWEST REGION	Page 1 of
Company Name: 2MNN1/4SSOC10	765		MN: 612-607-1700 WI: 920-469-2436	
Branch/Location: ADD 600		Analytical °	x) a	
Project Contact: Brian Wayne	Tr / "	ww.pacelabs.com	Quote #:	Mailthe
Phone: $0707830 - 814$		IN OF CUSTO	DY Mall To Contact:	: Brign Maunpy
Project Number: 1/1866 A05 / 003	A=None B=HCL C=H25	*Preservation Codes	Mail To Company	· Onn ASCHOT
Project Name:	H=Sodium Bisulfate Solution	I=Sodium Thiosulfate J=Other	Mail To Address	VIIIIIIIIIII00°CIA
Project State:	FILTERED? (YES/NO)			ADDIETON WI SAFI
Sampled By (Print): RYIAN MALINE	PRESERVATION (PICK)	A A	Invoice To Contac	at: 1501010 MAIMER
Sampled By (Sign):			Invoice To Compar	
PO #: Regul Prog		- 5	Invoice To Addres	
Data Package Options MS/MSD	Matrix Codes			Same
EPA Level III (billable) C = Char		KOW	Invoice To Phone	
EPA Level IV NOT needed on your sample S = Soli SI = Stud	ge WP = Wipe		CLIENT COMMENTS	LAB COMMENTS Profile #
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Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinguished By: B= d. Ubjan		Roonlyd dr enthen 8/26	
Transmit Prelim Rush Results by (complete what you want):	Relinquished By; Acupen	- 8/26/08 1530	Received B	210 5 50 -10 51 70
Email #1:	Relinquished By:		Received By: Date/Tim	
Email #2:	Relinquished By:	Date/Time:	Received By: Date/Tin	ne: OK / Adjusted
				Cooler Custody Seal
ax:		warman and the second	· · · · · · · · · · · · · · · · · · ·	ne: Present / Not Present



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

September 05, 2008

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

RECEIVED SEP 0.9 2008 OMANNI ASSOCIATES

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408403

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS





CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 408403

Green Bay Certification IDs

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

Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169 Kentucky Certification #: 83 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Dakota Certification #: R-150 New York Certification #: 11888 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87948

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

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003	3		
Lab ID	Sample ID	Matrix	Date Collected	Date Received
408403001	OUTFALL 001	Water	09/02/08 07:15	09/02/08 13:10

REPORT OF LABORATORY ANALYSIS





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SAMPLE ANALYTE COUNT

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408403											
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory						
408403001	OUTFALL 001	EPA 6010	DLB	1	PASI-G						
		SM 3500-Cr B (Online)	DEY	1	PASI-G						

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 408403

Method:EPA 6010Description:6010 MET ICPClient:OMNNI ASSOCIATES, INC.Date:September 05, 2008

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation: The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 5 of 10





PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 408403

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:September 05, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

Page 6 of 10





Project:

MAUTHE OUTFALL N1866A05/003

ANALYTICAL RESULTS

Pace Project No.: 408403									
Sample: OUTFALL 001	Lab ID:	408403001	Collecte	d: 09/02/0	8 07:15	Received: 09/	/02/08 13:10 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytica	I Method: EPA	6010 Prepa	aration Met	ihod: EF	PA 3010			
Chromium	1290	ug/L	5.0	1.1	1	09/04/08 08:26	09/04/08 16:09	7440-47-3	
Chromium, Hexavalent	Analytica	I Method: SM 3	3500-Cr B (C	Online)					
Chromium, Hexavalent	1.4	mg/L	0.071	0.021	6.25		09/02/08 14:00	18540-29-9	

1

Date: 09/05/2008 12:45 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pace Project No.:	MAUTHE C 408403	OUTFALL N1	866A05/003										
QC Batch:	WETA/224	46		Analys	sis Method	: 5	SM 3500-Cr	B (Online)	<u></u>			· · · · ·	
QC Batch Method:	Analysis Description:			Chromium, H									
Associated Lab San	nples: 408	403001											
METHOD BLANK:	71765			I	Matrix: Wa	iter	· · · · · · · · · · · · · · · · · · ·					·····	
Associated Lab San	npies: 408	403001											
Parameter Unit			Units	Blanl Resu		eporting Limit	Analyz	ed	Qualifiers				
Chromium, Hexaval	ent	mg/L		<0.	0034	0.011	09/02/08						
LABORATORY CO	NTROL SAM	IPLE: 7176	6	•									
Param	neter		Units	Spike Conc	LCS Resi		LCS % Rec	% Rec Limits		ualifiers			
Chromium, Hexaval	ent	mg/L		.3	.	0.31	103	90	-110		-		
MATRIX SPIKE & N	ATRIX SPI		TE: 71767			71768		· · ·					
	•			MS	MSD					-	•		
Paramet	er	Units	408403001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexaval	ent	mg/L	1.4	1.9	1.9	3.1	3.2	94	95	90-110	·	20	

Date: 09/05/2008 12:45 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project:	MAUTHE OUTFALL	N1866A05/003										
Pace Project No.:	408403											
QC Batch:	MPRP/1709		Analys	is Method:	E	PA 6010						
QC Batch Method:	EPA 3010	Analys	Analysis Description:			6010 MET						
Associated Lab Sa	mples: 408403001											
METHOD BLANK:	72386		N	fatrix: Wat	ter							
Associated Lab Sa	mples: 408403001											
Para	neter	Units	Blank Resul		eporting Limit	Analyz	ed	Qualifiers				
Chromium ug/l			·	<1.1	5.0	·			_			
	NTROL SAMPLE: 72	387			<u></u>		. <u> </u>					
		Units	Spike Conc.	LCS Resu			% Rec Limits		alifiers			
Chromium			500		535	107		80-120		-		
Chromium	ug/	L	500		555	107	00	-120				
								-120				
	ug/ MATRIX SPIKE DUPLI			MSD	72389			-120				
		CATE: 72388 408471001		MSD Spike	72389 MS	MSD	MS	MSD	% Rec		Max	
		CATE: 72388 408471001	MS	MSD	72389				% Rec Limits	RPD		Qual

Date: 09/05/2008 12:45 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408403

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 09/05/2008 12:45 PM

REPORT OF LABORATORY ANALYSIS

Page 10 of 10



	Sample Condition Upon Receipt	
Face Analytical Client Nan	me: <u>DMNI & ASSOC</u> Project # <u>4084</u>	23
Courier: 🗍 Fed Ex 🗍 UPS 🗍 USPS 🗍 (Tracking #:	Client Commercial Pace Other	
Custody Seal on Cooler/Box Present: 🗌 y	yes 🖾 no Seals intact: 🗌 yes 🗌 no	
Packing Material: 🗍 Bubble Wrap 🌱 Bub	bble Bags None Other	
Thermometer Used	Type of Ice: Wet Blue None Samples on ice, cooling process h	ias begun
Cooler Temperature []] Temp should be above freezing to 6°C	Biological Tissue is Frozen: Yes No Date and Initials of person e contents: $4/2/0$ S	the second s
Chain of Custody Present:	QYes ONO ONA 1.	
Chain of Custody Filled Out:	Qyes ONO ONA 2.	
Chain of Custody Relinquished:	Dives Ono Onva 3.	•
Sampler Name & Signature on COC:	ares DNO DINA 4. JUST NAME	
Samples Arrived within Hold Time:	Dixes []No []N/A 5.	
Short Hold Time Analysis (<72hr):	Gres ONO ONA 6. NIXIMONO	
Rush Turn Around Time Requested:	Oyes QN0 ONA 7.	
Sufficient Volume:	Qres ONO ONA 8.	
Correct Containers Used:	Qres ONO ONA 9.	
-Pace Containers Used:	QYes ONO ONA	
Containers Intact:	Qyes ONO ONA 10.	
Filtered volume received for Dissolved tests	Qyes QNO QNVA 11.	
Sample Labels match COC:	QYes DNO DNA 12.	
-Includes date/time/ID/Analysis Matrix:	\mathcal{M}	
All containers needing preservation have been checked.	QYes []No []N/A 13.	
All containers needing preservation are found to be in compliance with EPA recommendation.		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	Initial when completed Initial when completed	
Samples checked for dechlorination:	DYes DNo QNA 14.	
Headspace in VOA Vials (>6mm):	[]Yes []No []NA 15.	
Trip Blank Present:	Oyes Ono QNA 16.	
Trip Blank Custody Seals Present	DYes DNO DNA	
Pace Trip Blank Lot # (if purchased):		
Client Notification/ Resolution:	Field Data Required? Y	/ N
Person Contacted:	Date/Time:	
Comments/ Resolution:		
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		·
Project Manager Review:	Date: 4/2/08	

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

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(P	Please Prin	t Clearly)]	_												Page	1 of \
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Branch/Location:	An	icton		1		Pace								,				
Project Contact:	12/11	on wau	NPIC	1 /				icelabs.c					NB.		Quote #:	ma	utthe	
Phone:	0701	830-6	141	1 '	(CHA	IN	OF	C	US'	ro	DY	Ku		Mail To Contact:	BNO	nuau	ner
Project Number:	11/18/	640510	02					Preserva	tion Cod	0 5		ol G≃Na			Mali To Company:	nnn	hi Itre	MATES
Project Name:	TN TOU	IHAP	$\overline{\bigcirc}$		łone B≓ Sodium Bisu	HCL C=1			n Thiosulfi		Other				Mail To Address:	ONP SI	isterns	Drive
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·	RY	N INDI	NOPV		S/NO) RVATION	K Dick T		res							Invoice To Contact:	Brin	NAD	iner
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Sampled By (Sign)	•		Regulatory			0			•						Invoice To Company:		11/100	UUUIES
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Data Package O		MS/MSD	Ma A = Air	w = Water			US IN	うくつ								U U	wing.	
	9 III 🗆	(billable)	B = Biota C = Charcoal	DW = Drini GW = Grou	king Water und Water		VGI								Invoice To Phone:		<u> </u>	
EPA Leve	91 IV		O = Oil S = Soil SI = Sludge	SW = Surfa WW = Was	ste Water		N N	CHC							CLIENT	LABC	OMMENTS	Profile #
PACE LAB #	CLIENT	FIELD ID		WP = Wipe ECTION TIME	MATRIX		FC -	0					ŀ		COMMENTS	ŀ	Use Only)	
001	DUTFAT	1001	9/2/08		BW		X	×							2-250 MIA	D		.
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Telephone: Fax:			Relin	nquished By	r:			Da	te/Time:			Received	i By:		Date/Time:			Adjusted
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special pr	icing and release	of liability													· · · · · ·		Intact /	Not Intact



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

September 10, 2008

RECEIVED SEP 15 2008 OMNNI ASSOCIATES

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

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408674

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on September 08, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Page 1 of 8



CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 408674

Green Bay Certification IDs

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

Green Bay Volatiles Certification IDs Louisiana Certification #: 04169

Louisiana Certification #: 04169 Kentucky Certification #: 83 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 South Carolina. Certification #: 83006001 Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Dakota Certification #: R-150 New York Certification #: 11888 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87948

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

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: Pace Project N	MAUTHE OUTFALL N186 o.: 408674	6A05/003		
Lab ID	Sample ID	Matrix	Date Collected	Date Received
408674001	OUTFALL 001	Water	09/08/08 10:35	09/08/08 14:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Pace Project N	MAUTHE OUTFALL N1866A05/003 Io.: 408674				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
408674001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408674

Method: SM 3500-Cr B (Online) Description: Chromium, Hexavalent Client: **OMNNI ASSOCIATES, INC.** Date: September 10, 2008

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

Page 5 of 8





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ANALYTICAL RESULTS

Project:	MAUTHE OL	JTFALL N1866A	05/003							
Pace Project No.:	408674									
Sample: OUTFAL	L 001	Lab ID:	408674001	Collecte	d: 09/08/0	8 10:35	Received: 09/	/08/08 14:50 N	Aatrix: Water	
Parame	eters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexav	alent	Analytica	al Method: SM :	3500-Cr B (0	Online)					
Chromium, Hexava	lent	1.3	mg/L	0.071	0.021	6.25		09/09/08 09:00	0 18540-29-9	

Date: 09/10/2008 04:01 PM

REPORT OF LABORATORY ANALYSIS





QUALITY CONTROL DATA

Project: MAUTH Pace Project No.: 408674	IE OUTFALL N1866A0	5/003									
QC Batch: WETA	V2289	Anal	ysis Method	l: S	M 3500-Cr	B (Online)					
QC Batch Method: SM 35	500-Cr B (Online)	Anal	ysis Descrip	otion: C	hromium, H	lexavalent	by 3500				
Associated Lab Samples:	408674001										
METHOD BLANK: 74507			Matrix: Wa	iter							
Associated Lab Samples:	408674001										
Parameter	Units	Bla Res		leporting Limit	Analyz	ed	Qualifiers				
Chromium, Hexavalent	mg/L	<	0.0034	0.011	09/09/08	09:00					
LABORATORY CONTROL	SAMPLE: 74508										
		Spike	LCS	6	LCS	% Re	C				
Parameter	Units	Conc.	Resu	ult	% Rec	Limits	; Qi	ualifiers			
Chromium, Hexavalent	mg/L		.3	0.30	99	90)-110				
MATRIX SPIKE & MATRIX	SPIKE DUPLICATE:	74509		74510							
		MS	MSD								
	408674	1001 Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units Re	sult Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexavalent	mg/L	1.3 1.9	1.9	3.2	3.2	100	102	90-110	.8	20	

Date: 09/10/2008 04:01 PM

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 408674

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 09/10/2008 04:01 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 8



	Sam	ple Con	ditior	Upon Receipt	t		
Pace Analytical	Client Name:	<u> </u>	nn	i Acox	_ Pi	roject # 408	3674
' Courier:] Fed Ex] UPS Tracking #:	USPS Client		nercial	Pace Other		Oplicitale at Projecties Cat	
Custody Seal on Cooler/Box	Present: ves	no 🖸	Seals	s intact: 🔲 yes	⊡ n	Proj Nameri	
Packing Material: 🔄 Bubble	Wrap Bubble E	ر الآلاً Bags	None	Other			
Thermometer Used	A		<u>ر</u>	Blue None		amples on ice, cooling p	ocess has begun
Cooler Temperature R Temp should be above freezing to	DI)	is Frozen: Yes No Comments:		Date and Initials of b contents: 9/8/	
Chain of Custody Present:				1.			
Chain of Custody Filled Out:			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
Chain of Custody Relinguished	, d:	QYes ONO		3.			
Sampler Name & Signature on		Yes ONO		· · · · · · · · · · · · · · · · · · ·			
Samples Arrived within Hold Ti		DYes DNo		5.			
Short Hold Time Analysis (<		-t	· · · · · · · · · · · · · · · · · · ·	6. Nexchrom	IP .		
Rush Turn Around Time Req	······································	UYes QNO			······		
Sufficient Volume:		Yes DNo					
Correct Containers Used:	/	Yes ONo		1			·.
-Pace Containers Used:	_	V CiYes ONO					
Containers Intact:	·	Yes DNo		1			
Filtered volume received for Di		Yes DNo	<u> </u>	1			<u> </u>
Sample Labels match COC:						· .	
-Includes date/time/ID/Analy	· \^	V		1			
All containers needing preservation h	ave been checked	Yes ONo	- HN/A	13		·····	
All containers needing preservation compliance with EPA recommendation	are found to be in	OYes ONo)			·	
exceptions: VOA, coliform, TOC, O&G,	WI-DRO (water)	□Yes □No		Initial when completed		ot # of added reservative	
Samples checked for dechlorin	ation:	Yes ONo	QNA	14	•	· · · · · · · · · · · · · · · · · · ·	
leadspace in VOA Vials (>6m	m): (□Yes □No	DN/A	15.			
Frip Blank Present:	,	□Yes, □No	QINA	16.,			
Frip Blank Custody Seals Prese	ent (□Yes □No	ayr				
Pace Trip Blank Lot # (if purcha	ised):						
Client Notification/ Resolution Person Contacted: Comments/ Resolution:			_Date/	Time:	F	ield Data Required?	Y / N
•			· ·	•			
	A						2/00
Project Manager Review:	1/2	\leq				Date:	<i>IUY</i>

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)	<u></u>	1	-							UPPE	R MIDW	VEST R	EGION	· · · · · · ·	Page 1	of
Company Name:	Omnni Associo	TPS									MN: 6	612-607	-1700 [°]	WI: 920-469-2436		·	•
Branch/Location:	ANNIPTON	<u>, , , , , , , , , , , , , , , , , , , </u>			ace	Ana	alytic	al*					1				
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Phone:	(100/800-6)	141	1	C	;HA	IN	OF		US	то	DY	, .		Mail To Contact:	BYI	inin	iner
Project Number:	N18666051	me			ICL C=			ation Cod	les		nol G=N]	Mall To Company:	Omn	ASCA	INTER
Project Name:	Mailthe	\sim	A=No H=So	odium Bisuli				m Thiosulf		=Other]	Mail To Address:	onesi	stems	Drive
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Sampled By (Sigr			(CO	DE)*		1				<u> </u>				Invoice To Company:	Onn	ni AMA	INTEN
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		D = Oil	GW = Groun SW = Surfac WW = Wast	ce Water		A C	3							Invoice To Phone:			· · · · · · · · · · · · · · · · · · ·
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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

September 18, 2008

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

RECEIVED SEP 2 3 2008 OMNNI ASSOCIATES

## RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409039

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Stéven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

Page 1 of 8





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### CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409039

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

#### **Green Bay Volatiles Certification IDs**

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

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

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

### **REPORT OF LABORATORY ANALYSIS**





### SAMPLE SUMMARY

Project: Pace Project No	MAUTHE OUTFALL N1866A05/003			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
409039001	OUTFALL 001	Water	09/16/08 06:58	09/16/08 14:40

### **REPORT OF LABORATORY ANALYSIS**





### SAMPLE ANALYTE COUNT

Project:MAUTHE OUTFALL N1866A05/003Pace Project No.:409039

Lab ID	Sample ID		Method	Analysts	Analytes Reported	Laboratory
409039001	OUTFALL 001	-	SM 3500-Cr B (Online)	DEY	1	PASI-G

## **REPORT OF LABORATORY ANALYSIS**

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### **PROJECT NARRATIVE**

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 409039

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:September 18, 2008

#### General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

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

#### Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

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

#### Method Blank:

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

#### Laboratory Control Spike:

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

#### Matrix Spikes:

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

#### **Duplicate Sample:**

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

#### **Additional Comments:**

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

### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 8





### ANALYTICAL RESULTS

#### Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 409039

Sample: OUTFALL 001	Lab ID	: 409039001	Collecte	d: 09/16/0	8 06:58	Received: 09	/16/08 14:40	Matrix: Water	
Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytica	al Method: SM 3	3500-Cr B ((	Online)					
Chromium, Hexavalent	1.3	mg/L	0.11	0.034	10		09/17/08 06:5	50 18540-29-9	

Date: 09/18/2008 04:17 PM

### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 8





### QUALITY CONTROL DATA

Project: MAU Pace Project No.: 4090	THE OUTFALL N 39	11866A05/003	i									
QC Batch: WE	TA/2339		Analys	is Method	: S	M 3500-Cr	B (Online)					
QC Batch Method: SM Associated Lab Samples:	3500-Cr B (Onlin 409039001	e)	Analys	is Descrip		Chromium, H		by 3500				
METHOD BLANK: 7784			N	Aatrix: Wa	ter						<u> </u>	
Associated Lab Samples:	409039001											
Parameter		Units	Blank Resul		eporting Limit	Analyz	red	Qualifiers				
Chromium, Hexavalent	mg/	L	<0.0	0034	0.011	09/17/08	06:50					
LABORATORY CONTRO	L SAMPLE: 778	341						· · · · · · · · · · · · · · · · · · ·				
Parameter		Units	Spike Conc.	LCS Resi		LCS % Rec	% Rec Limits	-	ualifiers			
Chromium, Hexavalent	mg/	L	.3		0.31	104	90	-110		-		
MATRIX SPIKE & MATRI		CATE: 77842			77843		<del>.</del>	<u>-</u>				
		409039001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
_	Units	Result	Conc.	Conc.	Resuit	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Parameter												

Date: 09/18/2008 04:17 PM

### **REPORT OF LABORATORY ANALYSIS**





### QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409039

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP** - Sample Duplicate

**RPD** - Relative Percent Difference

NC - Not Calculable.

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

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 09/18/2008 04:17 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



Trip Blank Present: Dyes No Piva 16.	· · · ·	Sam	ple Cor	ditio	n Upon Red	ceipt		
Tracking #:	Pace Analytical Cli	ent Name:	Omi	UNI		F	Project #	09039
Custody Seal on Cooler#Box Present: Uses Ino Seals intact: Uses on Backson Seals intact: Uses on Bubble Wrap Bubble Bags I None Other Samples on Lee, cooling process has begun Thermometer Used II Biological Tissue is Frozen: vs. No Contents: User Site State is Frozen: vs. No Contents: User Site State is Frozen: vs. No Contents: User Site State S			t 🗌 Com	mercial	Pace Ot	her	Projetice	Date in the second state
Thermometer Used       NA       Type of f.or:       Wet       Blue None       Samples on los, cooling process has begun         Cooler Temperature       Roll       Biological Tissue is Frozen: Yes       No       Date and initials of present maximining contents:       Date and initials of present maximining contents:       Roll (K) K       No       No       Date and initials of present maximining contents:       Roll (K) K       No       No       Date and initials of present maximining contents:       Roll (K) K       No	Custody Seal on Cooler/Box Pres	sent: 🗌 yes	no	Seals	s intact:	yes 🔲		
Cooler Temperature       GI       Biological Tissue is Frozen: Yay No       Date and initiate of person axemining contents:         Chain of Custody Present:       Øres Dive Diva       1.         Chain of Custody Filled Out:       Øres Dive Diva       1.         Chain of Custody Filled Out:       Øres Dive Diva       1.         Chain of Custody Filled Out:       Øres Dive Diva       1.         Chain of Custody Filled Out:       Øres Dive Diva       1.         Samples Arrived within Hold Time:       Øres Dive Diva       1.         Samples Arrived within Hold Time:       Øres Dive Diva       1.         Sufficient Volume:       Øres Dive Diva       1.         Correct Containers Used:       Øres Dive Diva       1.         Pace Containers Used:       Øres Dive Diva       1.         Pace Containers Used:       Øres Dive Diva       1.         Filtered volume received for Dissolved tests       Øres Dive Diva       10.         Filtered volume received for Dissolved tests       Øres Dive Diva       11.         Sample Labels match COC:       Øres Dive Diva       12.         All containers neading preservation are found to be in Dives Diva       13.       13.         All containers neading preservation are found to be in Dives Diva       Dive Diva       14.	Packing Material: 📋 Bubble Wra	p Bubble f	Bags 🔏	None	Other		····	
Cooler femperature	Thermometer Used	la	Type of Ic	e: (We	Blue None	•		
Chain of Custody Filled Out:       IVez Divo       Divo       2.         Chain of Custody Relinquished:       Efreg Divo       Diva       3.         Sampler Name & Signature on COC:       Efreg Divo       Diva       4.         Samples Arrived within Hold Time:       Efreg Divo       Diva       5.         Stort Hold Time Analysis (c72hr):       Efree Divo       Diva       7.         Rush Tum Around Time Requested:       Dives Divo       Diva       8.         Correct Containers Used:       Efree Divo       Diva       8.         Correct Containers Used:       Efree Divo       Diva       8.         Containers Intact:       Effered Noil       Diva       10.         Filtered volume received for Dissolved tests       Diva       Diva       12.         -Includes date/imo/D/Analysis       Matrix:       Diva       12.         -Includes date/imo/D/Analysis       Matrix:       Diva       12.         -Includes date/imo/D/Analysis       Matrix:       Diva       13.         All containers needing preservation have been checked.       Diva       Diva       14.         Hontaid when completed preservation have been checked.       Diva       Diva       15.         Trip Blank Custody Seals Present       Diva <td>· · · · · · · · · · · · · · · · · · ·</td> <td><u>1</u></td> <td>Biologica</td> <td>l Tissue</td> <td></td> <td>9 No</td> <td>Date and Initials of contents: 916</td> <td>1/person examining</td>	· · · · · · · · · · · · · · · · · · ·	<u>1</u>	Biologica	l Tissue		9 No	Date and Initials of contents: 916	1/person examining
Chain of Custody Relinquished:       Uvg_ DNo       NA       3.         Samples Name & Signature on COC:       Uves DNo       DNA       4.         Samples Arrived within Hold Time:       Uves DNo       DNA       5.         Short Hold Time Alaysis (       Uves DNo       DNA       6.       HEXAC4H@DYh (         Rush Tum Around Time Requested:       Uves DNo       DNA       6.       HEXAC4H@DYh (         Sufficient Volume:       Eves DNo       DNA       8.         Correct Containers Used:       Eves DNo       DNA       9.         -Pace Containers Used:       Eves DNo       DNA       9.         -Pace Containers Used:       Eves DNo       DNA       10.         Filtered volume received for Dissolved tests       Eves DNo       DNA       11.         Samples datk/ime/D/Analysis       Matrix:       DVes DNo       DNA       13.         All containers needing preservation have been checked.       Eves DNo       DNA       14.         Headspace in VOA voltom, DC, OSG, Wi-DR (water)       Eves DNo       DNA       14.         Headspace in VOA Vails (> Semm):       Eves DNo       DNA       15.       Trip Blank Present:       Eves DNo       DNA         Trip Blank Custody Seals Present       Eves DNo	Chain of Custody Present:				1.			
Sampler Name & Signature on COC:       Uves       INve       INve       4.         Samples Arrived within Hold Time:       Uves       INve       INve       S.         Short Hold Time Analysis (<72hr):	Chain of Custody Filled Out:				2.			
Samples Arrived within Hold Time:       Øves Livo       INva       5.         Short Hold Time Analysis (<72hr):	Chain of Custody Relinguished:		Elves DN		3.		· · · · · · · · · · · · · · · · · · ·	
Short Hold Time Analysis (<72hr):	Sampler Name & Signature on COC	D:			4.			
Rush Turn Around Time Requested:       Dyes Zino       DNA       7.         Sufficient Volume:       Zives       DNo       DNA       8.         Correct Containers Used:       Zives       DNo       DNA       9.         -Pace Containers Used:       Zives       DNo       DNA       9.         -Pace Containers Used:       Zives       DNo       DNA       9.         Filtered volume roceived for Dissolved tests       Dives       DNo       DNA       10.         Filtered volume roceived for Dissolved tests       Dives       DNo       DNA       11.         Sample Labels match COC:       Zives       DNo       DNA       12.         -Includes dateltime/D/Analysis       Matrix:       DNo       DNA       13.         All containers needing preservation have been checked.       Dives       DNo       DNA         arcompliance with EPA recommendation.       Dives       DNo       DNA       14.         Headspace in VOA voitists (> 6mm):       Dives       DNo       DNA       14.         Headspace in VOA Vials (> 6mm):       Dives       DNo       DNA       15.       Trip Blank Cost dy Seals Present       Dives       DNo         Pace Trip Blank Lot # (if purchased):       Date/Time:	Samples Arrived within Hold Time:		ZIYes DN		5.			
Sufficient Volume:       Image Divo       Image Divo       Res         Correct Containers Used:       Image Divo       Image Divo       Res         -Pace Containers Used:       Image Divo       Image Divo       Res         Containers Intact:       Image Divo       Image Divo       Res         Filtered volume received for Dissolved tests       Image Divo       Image Divo       Image Divo         Filtered volume received for Dissolved tests       Image Divo       Image Divo       Image Divo         Sample Labels match COC:       Image Divo       Image Divo       Image Divo         -includes date/ime/Di/Analysis       Matrix:       Image Divo       Image Divo       Image Divo         All containers needing preservation are found to be in compliance with EPA recommendation.       Image Divo       Image Divo       Image Divo         exceptions:       VOA coliform, TOC, OLG, WI-DRD (water)       Image Divo       Image Divo       Image Divo         Samples checked for dechlorination:       Image Divo       Image Divo       Image Divo       Image Divo         Samples checked for dechlorination:       Image Divo       Image Divo       Image Divo       Image Divo         Trip Blank Custody Seals Present       Image Divo       Image Divo       Image Divo       Image Divo       Image Divo<	Short Hold Time Analysis (<72hr)	·	ØYes DNG		6. HEX.	ACHR	me	
Correct Containers Used: Dres DNo DNA 9. -Pace Containers Used: Dres DNo DNA 10. Filtered volume received for Dissolved tests Dres DNo DNA 10. Filtered volume received for Dissolved tests Dres DNo DNA 11. Sample Labels match COC: Dres DNo DNA 12. -Includes date/filme/ID/Analysis Matrix: Dres DNo DNA 12. -Includes date/filme/ID/Analysis Matrix: Dres DNo DNA 13. All containers needing preservation are found to be in Cres DNo DNA 13. All containers needing preservation are found to be in Cres DNo DNA 14. Headspace in VOA Vala (>6mm): Dres DNo DNA 14. Headspace in VOA Vala (>6mm): Dres DNo DNA 15. Trip Blank Custody Seals Present Dres DNo DNA 15. Trip Blank Custody Seals Present Dres DNo DNA 16. Pace Trip Blank Lot # (if purchased): Date/Time: Date/Time: Comments/ Resolution: Dres DNo DATA 14. Person Contacted: Date/Time: Date/Time: Comments/ Resolution: Dres DNo DATA 14. Person Contacted: Date/Time: Comments/ Resolution: Dres DNo DATA 14. Person Contacted: Date/Time: Comments/ Resolution: Dres DNo DATA 15. Comments/ Resolution: Dres DNo DATA 16. Pace Trip Blank Lot # (if purchased): Date/Time: Comments/ Resolution: Dres DNo DATA 16. Pace Date/Time: Date/Time: Date/Time: Comments/ Resolution: Dres DNo DATA 16. Pace Date/Time: Dat	Rush Turn Around Time Request	ed:			7			
Pace Containers Used:     IVes INo INA Containers Intact:     IVes INo INA 10. Filtered volume received for Dissolved tests     Ves INo INA 11. Sample Labels match COC:     Ves INo INA 12includes date/time/ID/Analysis Matrix:     All containers needing preservation have been checked. All containers needing preservation have been checked. All containers needing preservation are found to be in compliance with EPA recommendation.     IVes INo     INA 14. Headspace in VOA vials (>6mm):     IVes INo     IVes INo     INA 15. Trip Blank Custody Seals Present     IVes INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     INo     IVes     IVes     INo     IVes	Sufficient Volume:				8.			
Containers Intact:       IVes       INA       10.         Filtered volume received for Dissolved tests       IVes       INA       11.         Sample Labels match COC:       IVes       INA       12.         -Includes date/time/ID/Analysis       Matrix:       IVes       INA       12.         All containers needing preservation have been checked.       IVes       INA       13.         All containers needing preservation are found to be in compliance with EPA recommendation.       IVes       INA       Initial when compliance with EPA recommendation.         exceptions: VOA. coliform, TOC, O&G, WI-DRO (water)       IVes       INO       INA       Initial when compliance with EPA recommendation:         Samples checked for dechlorination:       IVes       INO       INA       IA.         Headspace in VOA Vials (>6mm):       IVes       INO       INA       IA.         Headspace in VOA Vials (>6mm):       IVes       INO       INA       IA.         Trip Blank Custody Seals Present       IVes       INO       IVA       IA.         Pace Trip Blank Lot # (if purchased):       IVes       INO       IVA       IA.         Comments/ Resolution:       IVes       IVes       IVes       IVes       IVes       IVes         Comments/ Resolution	Correct Containers Used:				9.			
Filtered volume received for Dissolved tests       Ives	-Pace Containers Used:							
Sample Labels match COC:       PYes       IN/A       12.         -Includes date/time/ID/Analysis       Matrix:       Includes date/time/ID/Analysis       Matrix:         All containers needing preservation have been checked.       IYes       IN/A       13.         All containers needing preservation are found to be in compliance with EPA recommendation.       IYes       IN/A       13.         All containers needing preservation are found to be in compliance with EPA recommendation.       IYes       IN/A       13.         exceptions:       VOA, oxiform, TOC, CAG, WI-DRO (water)       IYes       IN/A       Initial when completed preservative         Samples checked for dechlorination:       IYes       IN/A       14.         Headspace in VOA Vials (>6mm):       IYes       IN/A       15.         Trip Blank Present:       IYes       IN/A       16.         Trip Blank Lot # (if purchased):	Containers Intact:				10.			
-Includes date/time/ID/Analysis       Matrix:	Filtered volume received for Dissolv	red tests	OYes ON		11.			
All containers needing preservation have been checked. PYes DNo ENVA 13. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA. coliform, TOC, O&G, WI-DRO (water) Samples checked for dechlorination: PYes DNo ENVA 14. Headspace in VOA Vials (>6mm): PYes DNo ENVA 15. Trip Blank Present: Pyes DNo ENVA 16. Trip Blank Custody Seals Present Pace Trip Blank Lot # (if purchased): Client Notification/ Resolution: Person Contacted: Comments/ Resolution: Comments/ Resolution: Pace Trip Blank Lot # (if purchased): Pace Trip B	Sample Labels match COC:				12.		······	
Lives       Lives <td< td=""><td></td><td></td><td>$\omega_{-}$</td><td></td><td></td><td></td><td></td><td></td></td<>			$\omega_{-}$					
compliance with EPA recommendation.       LYes       LNo       LNo <td>All containers needing preservation have b</td> <td>een checked.</td> <td></td> <td>EINA</td> <td>13.</td> <td></td> <td></td> <td></td>	All containers needing preservation have b	een checked.		EINA	13.			
exceptions: VOA. colform, TOC, O&G, WI-DRO (water)       UYes       No       completed       preservative         Samples checked for dechlorination:       UYes       No       ØNA       14.         Headspace in VOA Vials (>6mm):       UYes       No       ØNA       15.         Trip Blank Present:       UYes       No       ØNA       16.         Trip Blank Custody Seals Present       UYes       No       ØAA         Pace Trip Blank Lot # (if purchased):	r	ound to be in	OYes ONG					
Headspace in VOA Vials (>6mm):       Image: Prescale in the image: Prescal	exceptions: VOA, coliform, TOC, O&G, WI-DF	70 (water)	OYes ONo				•	
Trip Blank Present:       IYes       No       Ito.         Trip Blank Custody Seals Present       IYes       No       Ito.         Pace Trip Blank Lot # (if purchased):	Samples checked for dechlorination	: <u>·</u>	OYes ONo		14.			
Trip Blank Custody Seals Present       Dres DNo DMA         Pace Trip Blank Lot # (if purchased):	Headspace in VOA Vials ( >6mm):				15.			
Pace Trip Blank Lot # (if purchased): Client Notification/ Resolution: Field Data Required? Y / N Person Contacted: Date/Time: Comments/ Resolution:	Trip Blank Present:		□Yes □No		16.			
Client Notification/ Resolution: Field Data Required? Y / N Person Contacted: Date/Time: Comments/ Resolution:	Trip Blank Custody Seals Present		OYes ONo		· · ·			
Person Contacted:         Date/Time:           Comments/ Resolution:	Pace Trip Blank Lot # (if purchased)	: <u></u>		-				
Person Contacted:         Date/Time:           Comments/ Resolution:	Client Notification/ Resolution:			-		· ·	Field Data Boguired?	
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•	Project Manager Review:	4					Date:	17/18

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)				$\neg$						R MIDW			M	Page 1	of
Company Name:	omniltso	inte	5	Ζ.				•		<b>MN:</b> 6	12-607-	1700	WI: 920-469-2436			
Branch/Location:	Annieton		7 /		ace	Analy	/tical °							•		
Project Contact:	BRIGHWAU	Nr	7 /		1	www.peoe	1003.00m						Quote #:	m	unthe	
Phone:	9701830-BI	<u> </u>	1 '	С	HA	IN C	OF C	CUS	TO	DY			Mail To Contact:	Bri	2n Wal	iner
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(billable)	ovel III (billable)	A = Air B = Biota C = Charcoal D = Oil	W = Water DW = Drinkir GW = Groun SW = Surfac	d Water		1200						•	Invoice To Phone:		(	
PACE LAB'#		S = Soll Si = Sludge COL	WW = Waste WP = Wipe LECTION		(Table	3G							CLIENT COMMENTS		OMMENTS Use Only)	Profile #
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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

September 25, 2008

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654 RECEIVED SEP 2 9 2008 OMNNI ASSOCIATES

RE: Project: N1866A051003 MAUTHE Pace Project No.: 409330

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

### **REPORT OF LABORATORY ANALYSIS**

Page 1 of 8





#### CERTIFICATIONS

Project: N1866A051003 MAUTHE

Pace Project No.: 409330

n · 409330

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

#### **Green Bay Volatiles Certification IDs**

Louisiana Certification #: 04169 Kentucky Certification #: 83 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Dakota Certification #: R-150 New York Certification #: 11888 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87948

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

### **REPORT OF LABORATORY ANALYSIS**

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Page 2 of 8



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### SAMPLE SUMMARY

Project: Pace Project N	N1866A051003 MAUTHE			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
409330001	OUTFALL 001	Water	09/23/08 05:15	09/23/08 14:50

### **REPORT OF LABORATORY ANALYSIS**





#### **PROJECT NARRATIVE**

Project: N1866A051003 MAUTHE

Pace Project No.: 409330

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:September 25, 2008

#### General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

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

#### Initial Calibrations (including MS Tune as applicable):

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

#### **Continuing Calibration:**

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

#### Method Blank:

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

#### Laboratory Control Spike:

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

#### Matrix Spikes:

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

#### **Duplicate Sample:**

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

#### Additional Comments:

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

### REPORT OF LABORATORY ANALYSIS





## ANALYTICAL RESULTS

Project: N1866A051003 MAUTHE Pace Project No.: 409330

Sample: OUTFALL 001	Lab ID:	409330001	Collecte	d: 09/23/0	8 05:15	Received: 09/	23/08 14:50 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent	Analytica	I Method: SM 3	3500-Cr B (0	Online)					
Chromium, Hexavalent	1.6	mg/L	0.071	0.021	6.25		09/23/08 15:30	18540-29-9	

Date: 09/25/2008 03:54 PM

### **REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Pace Project No.:	N1866A05 409330	1003 MAUT	HE										
QC Batch:	WETA/23	99		Analys	sis Method	: S	SM 3500-Cr	B (Online)					
QC Batch Method:	SM 3500-	Cr B (Online	∋)	Analys	sis Descrip	tion: C	Chromium, ⊢	lexavalent					
Associated Lab San	nples: 409	9330001											
METHOD BLANK:	80435		<u> </u>	 I	Matrix: Wa	iter							
Associated Lab San	nples: 409	9330001											
Param	eter		Units	Blank Resu	-	eporting Limit	Analyz	ed	Qualifiers				
Chromium, Hexaval	ent	mg/L		<0.	.0034	0.011							
LABORATORY CO		MPLE: 804											
				Spike	LCS	6	LCS	% Red	2				
Param	eter		Units	Conc.	່ Resເ	lit	% Rec	Limits	; Q	ualifiers			
Chromium, Hexaval	ent	mg/l	-	.3	3	0.31	104	90	-110		-		
MATRIX SPIKE & M	IATRIX SPI		ATE: 80437			80438				-			
		· ·		MS	MSD				.3	1.1	•		
			409330001	Spike	Spike	MS	MSD	MS	MSD ¹	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexaval	ent	mg/L	1.6	1.9	1.9	3.4	3.5	100	101	90-110	.7	20	

Date: 09/25/2008 03:54 PM

### **REPORT OF LABORATORY ANALYSIS**

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### QUALIFIERS

Project: N1866A051003 MAUTHE Pace Project No.: 409330

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### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD - Relative Percent Difference** 

NC - Not Calculable.

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

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 09/25/2008 03:54 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



	Sam	ple Con	ditior	l Upon Re	ceipt		•
Pace Analytical Clie	ent Name:	On	un	ri`		Project # _	409330
Courier: C Fed Ex C UPS C U Tracking #: Custody Seal on Cooler/Box Prese						Projz	nales Dueroare Name Alexandro Statute
Packing Material: Dubble Wrap		-			<u>ب</u> ، در ا		
Thermometer Used			_	Blue Nor		Samples on ice	cooling process has begun
Cooler Temperature Temp should be above freezing to 6°C			$\sim$	is Frozen: Y Comments:	ies No f		tials of person examining $(9/23/3)$
Chain of Custody Present:	V	Yes DNo		1.			
Chain of Custody Filled Out:	)	ØYes □No		2.			
Chain of Custody Relinquished:		Hes DNO		3.	-		
Sampler Name & Signature on COC		Øres 🗆 No		4.			
Samples Arrived within Hold Time:		Pes []NO		5			
Short Hold Time Analysis (<72hr):	. (	Ques 🗆 No		6.		•	
Rush Turn Around Time Requeste	:d:(	Yes Dano		7.		·	
Sufficient Volume:		Pres 🗆 No		8.	. <u></u>		······
Correct Containers Used:	ſ	Øres ⊡No		9.		,	
-Pace Containers Used:	<u>t</u>	Pres 🗆 No					
Containers Intact:	(	Pres 🗆 No		10.			
Filtered volume received for Dissolve	ed tests	OYes ONo	EN/A	11.			
Sample Labels match COC:	ጎ	Pres DNO		12.			
-Includes date/time/ID/Analysis All containers needing preservation have be	Matrix:	✓ ☐Yes □No	 Varia	13.			
All containers needing preservation are fo compliance with EPA recommendation.	und to be in [	]Yes []No	<b>G</b> RVA				
exceptions: VOA, coliform, TOC, O&G, WI-DR	O (water)	∃Yes □No		Initial when completed		Lot # of added preservative	
Samples checked for dechlorination:	· [	]Yes []No	(DVA	14.			
Headspace in VOA Vials ( >6mm):				15.			
Trip Blank Present:	C	]Yes □No		<u>16.</u>			
Trip Blank Custody Seals Present	C	]Yes □No	PRIVA				
Pace Trip Blank Lot # (if purchased):			/	·			
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:			Date/	Гіте:		Field Data Requi	red? Y / N
Project Manager Review:			· · · · · · · · · · · · · · · · · · · ·			Date:	9/29/08
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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)

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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

October 02, 2008

RECEIVED OCT 0 6 2008 OMNNI ASSOCIATES

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

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409636

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

### **REPORT OF LABORATORY ANALYSIS**

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Page 1 of 8



### CERTIFICATIONS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409636

#### **Green Bay Certification IDs**

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

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

North Carolina Certification #: 503 North Dakota Certification #: 303 New York Certification #: 11888 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87948

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

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#### **REPORT OF LABORATORY ANALYSIS**





## SAMPLE SUMMARY

Project: Pace Project N	MAUTHE OUTFALL N1866 No.: 409636	5A05/003		
Lab ID	Sample ID	Matrix	Date Collected	Date Received
409636001	OUTFALL 001	Water	09/30/08 06:40	09/30/08 13:25

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Page 3 of 8

ace Analytical www.pacelabs.com

Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

### SAMPLE ANALYTE COUNT

# Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 409636

Eab ID .	Sample ID	Method	Analysts	Analytes Reported	Laboratory
409636001	OUTFALL 001	SM 3500-Cr B (Online)	DEY	1	PASI-G

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Page 4 of 8



#### **PROJECT NARRATIVE**

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409636

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:October 02, 2008

#### General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

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

#### Initial Calibrations (including MS Tune as applicable):

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

#### Continuing Calibration:

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

Method Blank:

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

#### Laboratory Control Spike:

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

#### **Matrix Spikes:**

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

#### **Duplicate Sample:**

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

#### **Additional Comments:**

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

### **REPORT OF LABORATORY ANALYSIS**





### ANALYTICAL RESULTS

Project: Pace Project No.:	MAUTHE OU 409636	JTFALL N1866A	05/003							
Sample: OUTFAL	L 001	Lab ID:	409636001	Collecte	ed: 09/30/08	8 06:40	Received: 09/	30/08 13:25 M	atrix: Water	<u> </u>
Parame	eters	Results	Units	LOQ	ĹÔD	DF	Prepared	Analyzed	CAS No.	Qual
Chromium, Hexavalent Analytica			I Method: SM 3	3500-Cr B ((	Online)					
Chromium, Hexavalent			mg/L	0.11	0.034	10		09/30/08 14:30	18540-29-9	

Date: 10/02/2008 11:59 AM

### **REPORT OF LABORATORY ANALYSIS**

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Page 6 of 8



### QUALITY CONTROL DATA

Project: Pace Project No.:	MAUTHE 409636	OUTFALL N18	366A05/003										
QC Batch:	WETA/2	442		Analys	sis Method	: S	M 3500-Cr I	B (Online)					
QC Batch Method:	SM 3500	0-Cr B (Online)		Analysis Description:			hromium, H						
Associated Lab San	nples: 40	09636001											
METHOD BLANK:	83141				Matrix: Wa	ter							
Associated Lab San	nples: 4(	09636001											
Param	neter		Units	Blank Resul		eporting Limit	Analyz	ed	Qualifiers				
Chromium, Hexaval	ent	mg/L		<0.	0034	0.011	09/30/08	14:30					
LABORATORY CO	NTROL SA	AMPLE: 83142	2							<u></u>			
				Spike	LCS	5	LCS	% Re	5				
Param	neter		Units	Conc.	Resu	ılt	% Rec	Limits	Q	ualifiers			
Chromium, Hexaval	ent	mg/L		.3		0.27	92	90	-110		-		
MATRIX SPIKE & N	ATRIX SF	PIKE DUPLICA	TE: 83143			83144							
				MS	MSD								
		4	09636001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexaval	ent	mg/L	1.8	3	3	4.7	4.8	96	99	90-110	2	20	

Date: 10/02/2008 11:59 AM

### **REPORT OF LABORATORY ANALYSIS**

Page 7 of 8

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### QUALIFIERS

MAUTHE OUTFALL N1866A05/003 Project: Pace Project No.: 409636

#### DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

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

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 10/02/2008 11:59 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



Sar	nple Conditio	n Upon Receipt	
Pace Analytical Client Name	: <u>Omní</u>	Associates	Project # 409636
Courier: C Fed Ex UPS USPS C Clier		<b>y</b>	Optenal2 support States and State
Custody Seal on Cooler/Box Present:  yes	1	• —	no
	Bags None		
Thermometer Used	Type of Ice: We		Samples on ice, cooling process has begun Date and Initials of person examping
Cooler Temperature	Biological lissue	is Frozen: Yes No Comments:	contents: 9/30/18_AB
Chain of Custody Present:		· · · · · · · · · · · · · · · · · · ·	
Chain of Custody Filled Out:			· · · · · · · · · · · · · · · · · · ·
Chain of Custody Relinquished:	AYes ONO ONA		· · · · · · · · · · · · · · · · · · ·
Sampler Name & Signature on COC:		*****	
Samples Arrived within Hold Time:	Dives [INO ]INA	······	······································
Short Hold Time Analysis (<72hr):		6. hexchnome	
Rush Turn Around Time Requested:	DYes DNO DNA		
Sufficient Volume:			
Correct Containers Used:	QYes DNO DN/A		
-Pace Containers Used:	Yes DNO DN/A		
Containers Intact:		10.	
Filtered volume received for Dissolved tests			
Sample Labels match COC:			
-Includes date/time/ID/Analysis Matrix:	$\sim$		
All containers needing preservation have been checked.		13.	· · · · · · · · · · · · · · · · · · ·
All containers needing preservation are found to be in compliance with EPA recommendation.	DYes DNO QNVA		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:		14.	· · · · · · · · · · · · · · · · · · ·
Headspace in VOA Vials ( >6mm):	DYes DNO DN/A	1	· · · · · · · · · · · · · · · · · · ·
Trip Blank Present:	DYes DNO DNA	16.	
Trip Blank Custody Seals Present			
Pace Trip Blank Lot # (if purchased):	_ · \		
Client Notification/ Resolution:			Field Data Required? Y / N
Parson Contacted	Date	Time:	new Data nequired: 17 N
Comments/ Resolution:	Outo,		
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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)

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Project Contact:	Brian Vul	iner		-						<b>-</b> \/			Quote #:	110	MATIT	10 810
Phone:	9201830-6	> 141	<b></b>	<u> </u>	:HAII				10	DY			Mail To Contact:	BYIL	IT VU	Inci
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PACE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	~	,							COMMENTS	(Lab l	Jse Only)	
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