ENGINÈERING ARCHITECTURE ENVIRONMENTAL



OMNNI ASSOCIATES, INC. ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 1-800-571-6677 920-735-6900 FAX 920-830-6100

April 1, 2008

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

APR 0 3 2008 TRACKED

R+R-OSH RECEIVED

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 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.

www.omnni.com

Date Actual	Date For Linear Interpolation	Metered Discharge Reading	Gallons Discharged Between Meter Reading	рН	Hexavalent Chromium (mg/L)	Total Chromium (mg/L)	Monthly Discharge (gallons)
	01/01/08	8,420,139					
01/01/08		8,420,868	18,360				
01/02/08		8,420,868	0	8.7	1.300	1.200	
01/02/08		8,421,628	760				
01/10/08		8,459,333	37,705				
01/15/08		8,479,244	19,911				January
01/25/08	(1)	8,497,063	17,819				84,612
	02/01/08	8,504,750					
02/01/08	N.	8,505,562	8,499				
02/03/08		8,507,408	1,846				February
02/04/08		8,507,408	0	8.9	1.700	1.600	22,861
	03/01/08	8,527,611					
03/02/08		8,528,931	21,523	9.0	2.9	2.500	March
03/31/08		8,653,211	125,600				128,713
	04/01/08	8,656,324					
04/01/08		8,657,629	4,418	9.0			

Italicized metered discharge reading was calculated by linear interpolation.

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 January 1, 2008 through March 31, 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.

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.

Quarterly compliance report Page 3 of 3

Sincerely, OMNNI Associates, Inc.

Brin D. Waynes

Brian D. Wayner, P.E. Environmental Manager

Enclosures

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

ace Analytical [®]

Project Name: MAUTHE Project Number: N1866A05/003 1241 Bellevue Street, Suite 9 Green Bay, WI 54302 920-469-2436, Fax: 920-469-8827

Analytical Report Number: 892246

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Steve Mleczko

 Lab Sample
 Collection

 Number
 Field ID
 Matrix
 Date

 892246-001
 OUTFALL 001
 WATER 01/02/08 06:50

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

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

REPORT OF LABORATORY ANALYSIS

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ACCO <u>2008</u> Date

Page 1 of

Approval Signature

Pace Analytica Services, Inc.	An	alytic	al Re	port	Numbe	er: 892246	1241 Bellevue Street Green Bay, WI 54302 920-469-2436	
Client : Project Name : Project Number : Field ID :	OMNNI ASSOCIATES MAUTHE N1866A05/003 OUTFALL 001	, INC.					Ma Collec Re _l Lab Sample	trix Type : WATER tion Date : 01/02/08 port Date : 01/09/08 • Number : 892246-001
INORGANICS	<u> </u>							
Test	Result	LOD	LOQ	EQL	Dil.	Units	Code Anl Date/Time	Prep Method Anl Method
Chromium - Dissolved	1200	0.57	<mark>,</mark> 1.9		1	ug/L	01/09/08 09:33 A Prep Date/Time: 01/0	AM SW846 6010B SW846 6010B 4/08 Anl By: DLB
Chromium, Hexavalen	t 1300 : 🔪	42	140		1	ug/L	01/02/08 11:00 / Prep Date/Time: 01/0	AM SM 3500 Cr-B SM 3500 Cr-B 2/08 11:00 AM Anl By: DDY

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Qualifier Codes

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Flag Applies To Explanation

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

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Test G	roup Name	892246-001
CHRO	MIUM - DISSOLVED	В
CHRO	MIUM, HEXAVALENT	В
Code	WI Certification]
В	405132750 / DATCP: 105-444	l I

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Services, Inc.							QC Cumm	iai y						Green 920-46 Fax: 9	Bay, WI 54302 39-2436 20-469-8827
Batch:	8922	46							QC Type	Clien	t Sample ID		Lab Sample I	D	
Lab Section:	MET	ALS							MB	MBW	MTG2363-12		MBWMTG236	3-12	
QC Batch Number	: 2802	0							MB	MBD	NTG2363-12		MBDMTG2363	3-12	
Prep Method:	SW8	46 60	010B						LCS	LCSV	VMTG2363-12		LCSWMTG23	63-12	
Analytical Method:	SW8	46 60	010B						MS	89226	62363-12 52-001MS		892262-001M	53-12 S	
									MSD	89226	52-001MSD		892262-001M	SD	
Client Sample ID OUTFALL 001	L: 89	ab San 92246-0	nple ID MB IC 01 MB)		Clie	ent Sample ID		Lab San	nple ID	MB ID				
M	ethod	105				LCS/	LCS/LCSD Control Limits	Parent	Parent	MS		MSD		MS/	MS/MSD Control Limits
Test Name F	esult S	Spiked Conc	LCS Recovery Conc % C	Spiked Conc	LCSD Recovery Conc % C	RPD	LCL UCL RPD	Sample	Result	Spiked	MS Recovery Conc % C	Spiked	MSD Recovery Conc % C	RPD % C	LCL UCL RPD

20 892262-001 <

0.57

500.0

555.5 111.1

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OC Summary

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1241 Bellevue Street

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Pace Analytical

Chromium - Dissolved

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Pace Analytical Services, Inc.			QC Summary			124 Gred 920 Fax	1 Bellevue Street en Bay, WI 54302 -469-2436 : 920-469-8827
Batch:	892246			QC Type	Client Sample ID	Lab Sample ID	
Lab Section:	WETCHEM			MB	WCG2379-013MB	WCG2379-013MB	
QC Batch Number:	27935			LCS	WCG2379-013MBLCS	WCG2379-013MBLC	S
Prep Method:	SM 3500 Cr-B			MS	OUTFALL 001MS	892246-001MS	
Analytical Method:	SM 3500 Cr-B			MSD	OUTFALL 001MSD	892246-001MSD	
Client Sample ID OUTFALL 001	Lab Sample ID 892246-001	MB ID MB	Client Sample ID	Lab San	nple ID MB ID		
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	N	/lethod Blank	LCS				LCSD					LC Con	S/LCS	iD nits	Parent	Parent	MS				MSD.				MS/ MSD		N Coi	IS/MSI	D nits
Test Name	F	Result Conc	Spiked Conc	LCS R Conc	ecovery %	С	Spiked Conc	LCSD F Conc	ecove %	ry C	RPC %	.CL %	UCL %	RPD %	Sample Number	Result	Spiked Conc	i M Co	IS Rei	covery % C	Spiked Conc	MSD F Conc	Recover %	y C	RPD %	c	LCL %	UCL %	RPD . %
Chromium, Hexavalent	J	3.4	300.00	331.3	110.4							90	110	20	892246-001	1313.	5 3750.0	521	16.1	104.1	3750.0	5397.6	108.9		3.4		90	110	20

Conc = ug/L unless otherwise noted	Report Date:	1/9/2008
C = QC Code, see Qualifer Sheet	QC Batch Number:	27935
Parent Result is reported down to MDL in order to allow Validation of this worksheet		
The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.		Pa

1241 Bellevue Street

San	ple Condi	tion	Upon Receip	ot
Pace Analytical Client Name:	DMNI	A	5500	Project # <u>- 89 2 2 4 6</u>
Courier: Fed Ex UPS USPS Clien	t Commer	rcial	Pace Other	ojātenel Pelj, optorožils, Ieoj, Nama
Custody Seal on Cooler/Box Present: U yes	L no s	Seals	intact: Uyes	no
Packing Material: Bubble Wrap Bubble	Bags 🛃 No	ne	Other	
Thermometer Used	Type of Ice:	Wet) Blue None	Samples on ice, cooling process has begun
Cooler Temperature RT Temp should be above freezing to 6°C	Biological Ti	ssue	is Frozen: Yes N Comments:	Date and Initials of person examining contents: $1-2-08$ 3 4 (7) 48
Chain of Custody Present:	ØYes □No		1.	· /
Chain of Custody Filled Out:	BYes DNo		2.	
Chain of Custody Relinquished:	ØYes 🗆 No		3.	
Sampler Name & Signature on COC:	Dries []No		4.	· · · · · · · · · · · · · · · · · · ·
Samples Arrived within Hold Time:	12Yes []No		5.	
Short Hold Time Analysis (<72hr):	Deres 🗆 No 🛛		6. CRHG	
Rush Turn Around Time Requested:	DYes 10No 1		7.	
Sufficient Volume:	OYes DNo 1		8.	
Correct Containers Used:	BYes []No		9.	
-Pace Containers Used:	DYes DNo 1			
Containers Intact:	ØYes ⊡No I		10.	
Filtered volume received for Dissolved tests	Pres DNo 1		11.	
Sample Labels match COC:	ØYes DNo 1		12.	
-Includes date/time/ID/Analysis Matrix:	<u>SW</u>			
All containers needing preservation have been checked.	ØYes 🛛 No 🛛		13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	Øtes 🛙 No (7
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	OYes DNo		completed	Lot # of added preservative
Samples checked for dechlorination:	OYes ONo (<u>INA</u>	14.	·
Headspace in VOA Vials (>6mm):	□Yes □No [3N/A	15	
Trip Blank Present:	🛛 Yes 🖾 No [16.	
Trip Blank Custody Seals Present	□Yes □No €	BINA		
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:	-			Field Data Required? Y / N
Person Contacted:	C	Date/1	Time:	
Comments/ Resolution:		_		·····
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A	<u>.</u>			16 . 4.5
Project Manager Review:				Date: // 2///8

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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Company Nan	ne: Opinion Assa.	ATES		bana	Ang	htic	a/®.		MN:	612-607	-1700	WI: 920-469-2436		΄ Ω'	3126
Branch/Locati	ion: APPLETON			r aud	WWW.pa	iyuu welabs.co	U m`					· .	COC No.		
Project Conta	et: BRIAN WAYN	OFR					×	_				Quote #:	MAUTH	1E	
Phone:	920/830-6141		(CHA	NIN	OF	CU	<u>IST</u>	<u>OD)</u>		_	Mail To Contact:	BRIANL	JAYNA	in
Project Numb	er: N1866405/003		A=None B=	HCL C=	H2SO4	*Preservat D=HNO3	[•] E=DI Wa	ater F=M	ethanol G	NaOH		Mail To Company:	OMANI	Associ	SATA
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(billa	able)	Air W = Biota DW	= Water / = Drinking Water	S Re	ל נ י א							· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
	A Level III (billable) C =	Charcoal GW Oil SW	/ = Ground Water / = Surface Water	lyse	A V V	2 H						Invoice To Phone:	920/83	0-61	41
PACE LAB #	CLIENT FIELD ID	Soli WW Sludge WP COLLECTIO DATE	V = Waste Water = Wipe ION TIME MATRIX	Ana	HE V	-0-1 						CLIENT COMMENTS	LAB COMM (Lab Use C	ENTS Dniy)	Profile
	OUTFALL 00)	12/08 6	150 GW		X	×							2-250ml -	, AtD	, .
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	Date Needed:	Relinquis	shed By:	ñ.	. /	Dat	e/Time:	10'1 6	Rece	ived By:	1	Date/Time:		39224	<u>lla</u>
Transmit Pre	elim Kush Results by (complete what you wa	nı): Relinquis	shed By:	<u> </u>	/·		e/Time:		Rece	ved By:	10	Date/Time:	Receip	t Temp = /C	ot.
Email #2:				<u> </u>							·			Sample Re	celpt pH
elephone: Fax:	lan an airte an an Airte an Ai	Relinquis	sned By:			Da	e/1ime:		Rece	ved By:		Date/Time:		ooler Cust	tody Seal
spi	Samples on HOLD are subject to eclal pricing and release of liability	Relinquis	shed By:			Da	e/Time:		Rece	ived By:		Date/Time:	P	resent / No	t'Present

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1. Sec. 1.	

face Analytical [®]

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

Analytical Report Number: 893057

Client: OMNNI ASSOCIATES, INC.

Project Name: MAUTHE

Project Number: N1866A05-003

Lab Contact: Steve Mleczko

Lab Sample Number	Field ID	Matrix	Collection Date	
893057-001	OUTFALL 001	WATER	02/04/08 06:5	5

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

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

REPORT OF LABORATORY ANALYSIS

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Page 1 of

Approval Signature

Pace Analytica Services, Inc.	al	An	alytic	al Re	port	Numbe	er: 893057 1241 Bellevue Street Green Bay, WI 54302 920-469-2436
Client :	OMNNI ASSOCIATES	, INC.					Matrix Type: WATER
Project Name :	MAUTHE						Collection Date: 02/04/08
Project Number :	N1866A05-003						Report Date: 02/15/08
Field ID :	OUTFALL 001						Lab Sample Number : 893057-001
INORGANICS							
Test	Result	LOD	LOQ	EQL	Dil.	Units	Code Anl Date/Time Prep Method Anl Method
Chromium - Dissolved	1600	6.2	21	• • •	1	ug/L	. N 02/15/08 11:09 AM EPA 3020 EPA 6020
							Prep Date/Time: 02/13/08 11:20 AM Anl By: PCM
Chromium, Hexavalent	1700	34	110		1 .	ug/L	02/04/08 02:30 PM SM 3500 Cr-B SM 3500 Cr-B
							Prep Date/Time: 02/04/08 02:30 PM AnI By: DEY

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Qualifier Codes

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

Pace Analytical Services, Inc.		Analysis Summary by Laboratory	1241 Bellevue Street Green Bay, WI 54302
Test Group Name	893057-001		
CHROMIUM - DISSOLVED	M		
CHROMIUM, HEXAVALENT	В		
Code WI Certification			
B 405132750 / DATCP: 105-444			
M 999407970			

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1241 Bellevue Street

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Services, Inc.			QC Summary			Green Bay, WI 54302 920-469-2436 Fax: 920-469-8827
Batch:	893057			QC Type	Client Sample ID	Lab Sample ID
Lab Section:	WETCHEM			MB	WCG2379-023MB	WCG2379-023MB
QC Batch Number:	28620			LCS	WCG2379-023MBLCS	WCG2379-023MBLCS
Prep Method:	SM 3500 Cr-B			MS	OUTFALL 001MS	893057-001MS
Analytical Method:	SM 3500 Cr-B			NISU	OUTFALL 001MSD	893057-001MSD
Client Sample ID OUTFALL 001	Lab Sample ID 893057-001	MB ID MB	Client Sample ID	Lab San	nple ID MB ID	

	Method Blank	ICS				LCS/	L Co	CS/LCSD	Pa	rent	Parent	MS			MSD			MS/		MS/M Control	SD Limits
Test Name	Result Conc	Spiked Conc	LCS Recovery Conc % C	Spiked Conc	LCSD Recovery Conc % C	RPD % C	LCL %	UCL R	PD Sar % Nur	npie nber	Result Conc	Spiked Conc	MS Red Conc	overy % C	Spiked Conc	MSD Conc	Recovery % C	RPD %	c v	L UCI	. RPD %
Chromium, Hexavalent	< 3.4	300.00	301.6 100.5			-	90	110	8930	57-001	1674.0	3000.0	4690.1 1	00.5	3000.0	4667.6	99.8	0.5	9	110	20

Report Date: 2/15/2008

QC Batch Number: 28620

Page 5

Dago Analytical

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1241 Bellevue Street

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SE	ample Condition Upon Receipt
Pace Analytical Client Name	e: OMNI assoc Project # 393057
Courier: C Fed Ex UPS USPS C Cli Tracking #:	ent Commercial Pace Other Obtonue and States
Custody Seal on Cooler/Box Present: Qyes	s 🗗 no Seals intact: 🗋 yes 🗌 no 🔤 🔤 👘
Packing Material: Dubble Wrap Bubb	le Bags I None I Other
Thermometer Used	Type of Ice: We Blue None Samples on ice, cooling process has begun
Cooler Temperature RDT Temp should be above freezing to 6°C	Biological Tissue is Frozen: Yes No Comments:
Chain of Custody Present:	BYes DN0 DN/A 1.
Chain of Custody Filled Out:	BYes DNO DNA 2.
Chain of Custody Relinquished:	BYES DNO DNA 3.
Sampler Name & Signature on COC:	Difes []No []N/A 4
Samples Arrived within Hold Time:	BYES DNO DNA 5.
Short Hold Time Analysis (<72hr):	Bres DNO DNA 6. C.R.HO
Rush Turn Around Time Requested:	□Yes 2010 □N/A 7.
Sufficient Volume:	BYes DNO DN/A 8.
Correct Containers Used:	BYes DNO DN/A 9.
-Pace Containers Used:	
Containers Intact:	BYes DNo DNA 10.
Filtered volume received for Dissolved tests	BYes DNo DNA 11.
Sample Labels match COC:	BYes DNO DNIA 12.
-Includes date/time/ID/Analysis Matrix: All containers needing preservation have been checked.	<u>Ciw</u> BYes []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)	□Yes □No Initial when C Lot # of added preservative
Samples checked for dechlorination:	DYes DNo DINIA 14.
Headspace in VOA Vials (>6mm):	OYes ONO BINA 15.
Trip Blank Present:	UYes DNo ONA 16.
Trip Blank Custody Seals Present	DYes DNO DIVA
Pace Trip Blank Lot # (if purchased):	
Client Notification/ Resolution:	Field Data Required? Y / N
Person Contacted:	Date/Time:
Comments/ Resolution:	
Project Manager Review:	Date: 2/4/08

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

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Company Nar	me:	ŰM	INNI ASS	00177	TRS		ø		-					MN: 6	12-607-	1700	WI: 920-469-2436				\sum
Branch/Locat	tion:	4	PPLETON			/		ace	Ana	lytic	al °							COC No.		0312	69
Project Conta	act:	BR	JAN WA	YNE	و				www.pe	içelabs.c	o m						Quote #:	Mau	347		
Phone:		920	1830-614	1		I	C	:HA	IN	OF	CI	US ⁻	ТО	DY			Mail To Contact:	BRIF	A W in	YNER	
Project Numb	er:	N	1866A05/	200		A=No	ne B=H	ICL C=	H2SO4	Preserva D=HNO3	tion Cod E=Di \	<u>es</u> Water F	=Methan	ol G=Na	aOH		Mail To Company:	OMNIN	ASSO	2 TTAID	
Project Name	:	7	LAUTHE			H=So	dium Bisul	ate Soluti	on	I=Sodiun	Thiosulf	ate J≃	Other				Mail To Address:	ONES	YSTRA	S DRIVI	£
Project State:	:	•	121			FILTEI (YES)	RED? /NO)	Y/N:	N	4								APPLET	ica, ca	54914	
Sampled By (Print):	Be	ZIAN WAY	INER		PRESER (COE		Pick Letter	A	D	-						Invoice To Contact:	Reip	s w	AYNER	
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PO #:				Regul	latory			sted		5							Invoice To Address:				
Data Packa	ge Op	ions	MS/MSD		Matr	ix Codes		anba	ちを	2								S S	そうかい		
	able) A Level A Level		On your sample (billable)	A = Air B = Biota C = Char O = Oil	rcoal	W ≃ Water DW ≖ Drinklr GW = Groun SW = Surfac	ng Water d Water e Water	yses R	20400	1202							Invoice To Phone:	920/	२- ०६४	(4)	
			your sample	S = Soil SI = Slud	ge	WW = Waste WP = Wipe	Water	Anal	HEX.	Ŧ							CLIENT	LAB CO	MMENT	S Profile	#
PACE LAB #		CLIEN	IT FIELD ID		DATE	TIME	MATRIX		5 5	0							COMMENTS	(Lab U	se Only)		
-001	<u> </u>	XTF	FALL OOL	- 4	4108	6:55	GW	<u> </u>	$ \times $	X								2-250	Inlp ⁻	D+A	
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Email #1:	alim Rus	n Results I	by (complete what you	want):	Relino	uished By:	u	10	2/4	Da	te/Time:	13.7	, •	Receives	Hy:	~	Date/Time:	2 <i>1370</i>	Receipt Temp	= ROT	<u>°</u> c
Email #2:			·····		-						A. (7)								Samp	le Receipt pH	
Pax:						uisned By:				Da	te/Time:			Received	з Ву:		Date/Time:		<u>Cooler</u>	Custody Sea	
	Samples	on HOLD a	re subject to		Relinc	uished By:				Da	te/Time:			Received	d By:		Date/Time:		Presen	/ Not Presen	Ð
spe	ecial pric	ng and rel	ease of liability														·····	l	Intact Tersion 6.0, 06/14	1 / Not Intact	



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

March 11, 2008

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

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

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS





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

CERTIFICATIONS

Project: OUTFALL 001

Pace Project No.: 401199

Green Bay Certification IDs

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

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.:	OUTFALL 001 401199				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	
401199001	OUTFALL 001	Water	03/03/08 07:11	03/03/08 11:30	

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project: Pace Project No.:	⁴⁰ OUTFALL 001 401199				
Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
401199001	OUTFALL 001	EPA 7196	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS





PROJECT NARRATIVE

Project: OUTFALL 001

Pace Project No.: 401199

Method:EPA 7196Description:7196 Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:March 11, 2008

General Information:

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

Hold Time:

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

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS





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ANALYTICAL RESULTS

Project: Pace Project No.:	OUTFALL 001 401199									
Sample: OUTFAL	L 001	Lab ID:	401199001	Collecte	d: 03/03/0	3 07:11	Received: 03/	03/08 11:30 N	Matrix: Water	
Parame	eters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, H	lexavalent	Analytica	I Method: EPA	7196						
Chromium, Hexava	lent	2.9	ng/L	0.14	0.042	12.5		03/03/08 14:1	0 18540-29-9	

Date: 03/11/2008 02:14 PM

REPORT OF LABORATORY ANALYSIS

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Page 6 of 8



QUALITY CONTROL DATA

Project:	OUTFALL	001											
Pace Project No.:	401199												
QC Batch:	WETA/10	27		Analy	sis Method	: I	EPA 7196		· · · · ·			··	
QC Batch Method:	EPA 7196	i		Analy	sis Descrip	tion:	7196 Chromiu	ım, Hexava	alent				
Associated Lab San	nples: 401	199001											
METHOD BLANK:	1777												
Associated Lab San	nples: 401	199001											
				Blan	k F	Reporting							
Paran	neter		Units	Resu	lt	Limit	Qualifier	s					
Chromium, Hexaval	ent	mg/l	•	<0	.0034	0.01	1						
LABORATORY COI	NTROL SAM	IPLE: 177	в	<u> </u>						<u> </u>			<u> </u>
				Spike	LCS	S	LCS	% Rec	;				
Paran	neter		Units	Conc.	Resi	ult	% Rec	Limits	Qı	ualifiers			
Chromium, Hexaval	ent	mg/l	-	.:	3	0.30	102	90	-110		•		
MATRIX SPIKE & N			ATE: 1779			1780				<u> </u>			
				MS	MSD								
			401199001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium, Hexaval	ent	mg/L	2.9	3.8	3.8	6.6	6.6	100	100	90-110	.2	20	

Date: 03/11/2008 02:14 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: OUTFALL 001

Pace Project No.: 401199

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS





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

March 11, 2008

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

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

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Sylux Honor

Sylvia Hunter

sylvia.hunter@pacelabs.com Project Coordinator

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

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 7





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

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SAMPLE SUMMARY

Project: 401199 OMNNI ASSOCIATES Pace Project No.: 1069220

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

REPORT OF LABORATORY ANALYSIS

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Page 2 of 7



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SAMPLE ANALYTE COUNT

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Project:	401199 OMNNI ASSOCIATES				
Pace Project No.:	1069220				
				Analytes	
Lab ID	Sample ID	Method	Analysts	Reported	

		• ••••••	•
401199001	OUTFALL 001	EPA 6020	RJS

REPORT OF LABORATORY ANALYSIS

Page 3 of 7





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

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ANALYTICAL RESULTS

Project: Pace Project No.:	401199 OMNN 1069220	II ASSOCIATE:	5							
Sample: OUTFALL 001		Lab ID:	401199001	Collected	: 03/03/0	8 07:11	Received: 03/	03/08 11:30 M	atrix: Water	
Parameters		Results	Units	Report Limit	MDL DF		Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, I	Dissolved	Analytical	Method: EPA	6020 Prepara	ation Meth	od: EPA	3020			
Chromium		2500 u	ıg/L	25.0	12.5	50	03/10/08 11:50	03/10/08 13:23	7440-47-3	M0

Date: 03/11/2008 01:59 PM

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REPORT OF LABORATORY ANALYSIS

Page 4 of 7





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QUALITY CONTROL DATA

Project:	401199 OMNNI A	SSOCI	ATES										
Pace Project No.:	1069220												
QC Batch:	Analys	Analysis Method:											
QC Batch Method: EPA 3020				Analys	sis Descrip	otion: 6	6020 MET Dis	ssolved					
Associated Lab Sar	nples: 40119900)1											
METHOD BLANK:	451186					• • • • •							
Associated Lab Sar	nples: 40119900)1											
Parar	neter	ļ	Units	Blani Resu	c F It	Reporting Limit	Qualifier	s					
Chromium		ug/L			ND	0.50	0	<u> </u>					
LABORATORY CO	NTROL SAMPLE:	45118	7			,				<u>_</u>		. <u></u>	
				Spike	LCS	S	LCS	% Rec	;				
Parar	neter	L L	Jnits	Conc.	Resi	ult	% Rec	Limits	Q	ualifiers	_		
Chromium		ug/L		80)	78.7	98	85	-115		-		
MATRIX SPIKE & N	ATRIX SPIKE DU	PLICATE	: 451188	3		451189							. <u> </u>
				MS	MSD								
		4	01199001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parame	ler l	Jnits	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chromium	ug/L		2500	80	80	2510	2590	8	108	70-130	3	20	M0

Date: 03/11/2008 01:59 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 7





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

QUALIFIERS

Project: 401199 OMNNI ASSOCIATES Pace Project No.: 1069220

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 03/11/2008 01:59 PM

REPORT OF LABORATORY ANALYSIS

Page 6 of 7





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 401199 OMNNI ASSOCIATES Pace Project No.: 1069220

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

Date: 03/11/2008 01:59 PM

REPORT OF LABORATORY ANALYSIS

Page 7 of 7



San San	nple Co	onditio	n Upon Receipt
Pace Analytical Client Name:	<u>ÌM</u>	ni 1	SSOCIATES Project # 401199
Courier: Fed Ex UPS USPS Clien	t 🗌 Cor	mmercia	Pace Other Optional Association
Custody Seal on Cooler/Box Present: 🗌 yes	D no	Sea	Is intact: 🗌 yes 🔲 no
Packing Material: Bubble Wrap Bubble	Bags 🛛] None	Other
Thermometer Used NIA	Type of I	Ice: W	st Blue None Samples on ice, cooling process has begun
Cooler Temperature PD	Biologic	al Tissi	e is Frozen: Yes No Comments:
Chain of Custody Present:	Diges D		A 1.
Chain of Custody Filled Out:	QYes 🗆		A 2
Chain of Custody Relinquished:	QYes D		A 3.
Sampler Name & Signature on COC:	Dyes 🗆	IN0 []N	A 4.
Samples Arrived within Hold Time:	QYes 🛛		A 5.
Short Hold Time Analysis (<72hr):	Ayes D		A G. NOXCATOME
Rush Turn Around Time Requested:	🛛 Yes 🖒		A 7.
Sufficient Volume:	Diges 🗆		A 8.
Correct Containers Used:	Oyes D	No 🗆 N	A 9.
-Pace Containers Used:	Dies D	No 🗆 N	A
Containers Intact:	Dyes 🗆	No 🗆 N	A 10.
Filtered volume received for Dissolved tests	Dies D	N0 .0N	A 11.
Sample Labels match COC:	□Yes □	N0 QU	A 12.
-Includes date/time/ID/Analysis Matrix:			
All containers needing preservation have been checked.	QYes D	No 🗆 N	A 13.
All containers needing preservation are found to be in compliance with EPA recommendation.	Qyes DI	N0 []N	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	OYes D	No	completed the preservative
Samples checked for dechlorination:	□Yes □	No QN	A 14.
Headspace in VOA Vials (>6mm):	OYes Di	NO DIN	15.
Trip Blank Present:	OYes DI	NO QN	16.
Trip Blank Custody Seals Present	OYes OI	NO DN	A
Pace Trip Blank Lot # (if purchased):			~
Client Notification/ Resolution:		<u> </u>	Field Data Required? Y / N
Person Contacted:	-	Date	/Time:
			· · · · · · · · · · · · · · · · · · ·
Project Manager Review:			Date: 3/4//18

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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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Company Name:	OMNNI ASSOCIA	FTES		∕.		A	1.4%				MN : 61	2-607-1700	WI: 920-469-2436		ſ	131270
Branch/Location:	APPLETON		1		ace	Ana	IYTIC	ai						COC No.		JJI210
Project Contact:	BRIAN WAYNE	R				www.pc	10010103.0					1.0	Quote #:	7	HTUAN	£
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