ENGINEERING ARCHITECTURE ENVIRONMENTAL

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

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January 14, 2008

JAN 1 5 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 (partial)¹ semi-annual 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 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 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.

¹ This report only documents the results from October through December, since the previous operations and maintenance contractor for the Wisconsin Department of Natural Resources, Midwest Contract Operations, Inc., provided the information monthly through October, 2007.

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.

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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)
09/25/07		8,290,363					
	10/01/07	8,300, 6 73					
10/01/07		8,301,251	10,888				
10/02/07		8,301,251	0	7.7			
10/15/07		8,324,675	23,424				
10/16/07		8,324,675	0	7.4	1.700		
10/22/07		8,355,957	31,282				
10/23/07		8,355,957	0	7.5	1.500		
10/29/07		8,370,413	14,456				October
10/30/07	4	8,370,413	0	7.4	1.900		71,903
<u> </u>	11/01/07	8,372,575					
11/05/07		8,377,912	7,499				
11/06/07		8,377,912	0	8.3	1.900	1.300	November
11/16/07		8,386,583	8,671				21,587
	12/01/07	8,394,162					
12/03/07		8,395,372	8,789				
12/04/07	۰	8,395,372	0	8.6	3.100	2.500	
12/12/07	, 1	8,399,522	4,150				December
12/21/07	4	8,402,508	2,986				25,977
	01/01/08	8,420,139					
01/01/08		8,420,868	18,360				

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 monitoring² during the time period from October 15, 2007 through December 31, 2007.

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

² 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.

Semi-annual process compliance report Page 3 of 3

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.

Bria D. Wagnes

Brian D. Wayner, P.E. Environmental Manager

Enclosures

CC:

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



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

Analytical Report Number: 889757

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

 Lab Sample
 Collection

 Number
 Field ID
 Matrix
 Date

 889757-001
 OUTFALL 001
 WATER 10/16/07 07:41

Project Name: MAUTHE Project Number: N1866A05/003

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

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



Date

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10-18-07

Page 1 of 8

Pace Analytical Services, Inc.		An	alytic	al Re	port	Numbe	er: 8897	757		evue Street y, WI 54302 2436
Client : OMNN	II ASSOCIATES	S, INC.						Matrix	Type : WATE	R
Project Name : MAUT	HE							Collection	n Date: 10/16/	07
Project Number : N1866	A05/003							Repor	t Date: 10/17/	07
Field ID : OUTF							Lab Sample N	umber: 88975	7-001	
INORGANICS										
Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Chromium, Hexavalent	1700	42	140		1	ug/L	н	10/17/07 08:30 AM	SM 3500 Cr-B	SM 3500 Cr-B
							Pren	Date/Time: 10/17/0	7 08:30 AM A	By: DEY

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Pace Analytical Services, Inc.

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

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Lab Number	TestGroupID	Field ID	Comment
889757-001	W-CR+6-W	OUTFALL 001	H - Analysis performed one hour past holding time.

Qualifier Codes

۹.	Inorganic	Explanation Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally,
•	morganic	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.
	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
1	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.
	All	Elevated detection limit.
	Ali	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
	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.
	Organic	Analyte concentration exceeds calibration range.
	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.
	Organic	Surrogate results outside control criteria.
;	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.
l	Ali	Preservation, extraction or analysis performed past holding time.
łF	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.
	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
	All	Elevated detection limit due to low sample volume.
	Organic	Sample pH was greater than 2
	All	Spiked sample recovery not within control limits.
	Organic	Sample received overweight.
	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
	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.
	All	The analyte was not detected at or above the reporting limit.
	All	Sample received with headspace.
1	All	A second aliquot of sample was analyzed from a container with headspace.
	All	See Sample Narrative.
	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.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
	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.
	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.
	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.
	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.
	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.

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Pace Analytical Services, Inc.		Analysis Summary by Laboratory	1241 Bellevue Street Green Bay, WI 54302
Test Group Name	889757-001		
CHROMIUM, HEXAVALENT	в		
Code WI Certification B 405132750 / DATCP: 105-444			

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Pace Analytical Services, Inc.			QC Summary			1241 Bellevue Street Green Bay, WI 54302 920-469-2436 Fax: 920-469-8827
Batch:	889757			QC Type	Client Sample ID	Lab Sample ID
Lab Section:	WETCHEM			MB	WCG2270-064MB	WCG2270-064MB
QC Batch Number	25748			LCS	WCG2270-064MBLCS	WCG2270-064MBLCS
Prep Method:	SM 3500 Cr-B			MS	OUTFALL 001MS	889757-001MS
Analytical Method:	SM 3500 Cr-B		·	MSD	OUTFALL 001MSD	889757-001MSD
Client Sample ID OUTFALL 001	Lab Sample ID 889757-001	MB ID MB	Client Sample ID	Lab San	nple ID MB ID	

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	Method Blank	LCS		LCSD			LCS/		CS/LCS	-	Parent	Parent	MS			MSD			MS/ MSE	,	MS Contr	S/MSD rol Lim	
Test Name	Result	Spiked	LCS Recovery	Spiked	LCSD R	ecovery	RPD	LCL	UCL	RPD	Sample	Result	Spiked	MS Re	covery	Spiked	MSD R	ecovery	RPD) L	.CL U	ICL	RPD
	Conc	Conc	Conc % C	Conc	Conc	% C) % (; %	%	%	Number	Conc	Conc	Conc	% C	Conc	Conc	% C	%	С	%	%	%
Chromium, Hexavalent	< 3.4	300.00	303.9 101.3		[90	110	20	889757-001	1662.6	3750.0	5600.1	105.0	3750.0	5460.5	101.3	2.5		90	110	20

Sa	mple Cond	litior	n Upon Receipt		
Pace Analytical Client Name	: <u>Om</u>	NN	Assoc	Project #_	889757
Courier: C Fed Ex D UPS USPS C Clie				Cibit Pri	ngi Dis Lije Melins
Custody Seal on Cooler/Box Present: 🗌 yes	Pno	Seals	s intact: 🗌 yes [no	
Packing Material: 📋 Bubble Wrap 🛛 Bubble	e Bags 🖗	lone	Other		
Thermometer Used <u>NIA</u>	Type of Ice:	Wet	Blue None		cooling process has begur
Cooler Temperature <u>POT</u> Temp should be above freezing to 6°C	Biological	Fissue	is Frozen: Yes No Comments:		tials of person examining iolioco KL f C
Chain of Custody Present:	Vares 🗆 No		1.		
Chain of Custody Filled Out:	SYes INO		2.		
Chain of Custody Relinquished:	SpΩres ⊡No		3.		
Sampler Name & Signature on COC:	BAres ⊡No		4.		
Samples Arrived within Hold Time:	De la		5.		·
Short Hold Time Analysis (<72hr):	Solves 200		6. HEX CHRON	num	
Rush Turn Around Time Requested:	UYes WNo		7		
Sufficient Volume:	¥⊈Yes ⊡No		8.		
Correct Containers Used:	¥9Yes ⊡No		9.		
-Pace Containers Used:	□Yes 🅬				
Containers Intact:	Øres ⊡No		10.		
Filtered volume received for Dissolved tests	OYes ONo	CANA	11.		
Sample Labels match COC:	D\$Aves ⊡No		12.		
-Includes date/time/ID/Analysis Matrix:	<u> </u>				
All containers needing preservation have been checked.	□Yes □No	P IN/A	13.		
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes □No	Ş€N/A		·	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	□Yes □No		Initial when completed	Lot # of added preservative	•
Samples checked for dechlorination:	□Yes □No	`₩N/A	14.		
leadspace in VOA Vials (>6mm):	□Yes □No	S	15.		
Frip Blank Present:	□Yes □No	β ₩∧A	16.		
Trip Blank Custody Seals Present	□Yes □No	r IŞDN/A			
Pace Trip Blank Lot # (if purchased):	_	(
Client Notification/ Resolution:				Field Data Requir	ed? Y / N
Person Contacted:		Date/	Time:		
Comments/ Resolution:		•			
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	. <u> </u>				
		- <u></u>			
	e A			Date:	10-17-07

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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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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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ace Analytical®

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

Analytical Report Number: 890024

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number: N1866A05-003

Lab Sample Number	Field ID	Matrix	Collection Date
890024-001	OUTFALL 001	WATER	10/23/07 06:10

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

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

Signature

10-25-07

Page 1 of 7

Date

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· · · · · · · · · · · · · · · · · · ·								Date/Time:	A	nl By: DEY			
Chromium, Hexavalent	1500	42	140		1	⁺`ug/L		10/23/07 04:30 PM	SM 3500 Cr-B	SM 3500 Cr-B			
Test	Result	LOD	LOQ	EQL	Dil.	Units	· Code	Anl Date/Time	Prep Method	Anl Method			
INORGANICS													
Field ID : OUTFAL	.L 001							Lab Sample N	umber : 89002	4-001			
Project Number: N1866A	05-003							Repo	rt Date: 10/24/	07			
Project Name : MAUTH	E							Collectio	n Date: 10/23/	07			
Client : OMNNI	ASSOCIATES	S, INC.						Matri	x Type: WATE	R			
Pace Analytical Services, Inc.	An	alytic	al Re	por	Numbe	024	1241 Bellevue Street Green Bay, WI 54302 920-469-2436						

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Qualifier Codes

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A 3 3	Inorganic 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.
3	Inorganic	are evaluated on a sample by sample basis.
	morganic	The analyte has been detected between the method detection limit and the reporting limit.
	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.
	All	Elevated detection limit.
	Ali	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
	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.
	Organic	Analyte concentration exceeds calibration range.
	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.
	Organic	Surrogate results outside control criteria.
;	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.
I	All	Preservation, extraction or analysis performed past holding time.
IF	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.
	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
	All	Elevated detection limit due to low sample volume.
	Organic	Sample pH was greater than 2
	All	Spiked sample recovery not within control limits.
	Organic	Sample received overweight.
	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
	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.
	All	The analyte was not detected at or above the reporting limit.
	All	Sample received with headspace.
	All	A second aliquot of sample was analyzed from a container with headspace.
	All	See Sample Narrative.
	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.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
	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.
	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.
	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.
	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.
	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample

Pace Analytical Services, Inc.	Analysis Sun	nmary by Laboratory	1241 Bellevue Street Green Bay, WI 54302
Test Group Name			
CHROMIUM, HEXAVALENT	3		k
Code WI Certification B 405132750 / DATCP: 105-444			

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Pace Analytical Services, Inc.					(QC Summ	nary					Green 920-46	Bellevue Street Bay, WI 54302 59-2436 20-469-8827
Batch:	890	024						QC Type	Clier	nt Sample ID	Lab Sample	D	
Lab Section:	WE.	TCHE	N					MB	WCG	62270-068MB	WCG2270-06	S8MB	
QC Batch Number	: 259	46						LCS	WCG	2270-068MBLCS	WCG2270-06	8MBLCS	
Prep Method:	SM	3500 (Cr-B					MS	OUT	FALL 001MS	890024-001N	IS	
Analytical Method:		3500 (MSD	OUT	FALL 001MSD	890024-001M	ISD	
Client Sample ID OUTFALL 001		Lab Sam 890024-00	•	IB ID B	Clie	nt Sample ID		Lab Sarr	nple ID	MB ID			
	ethod Blank	LCS		LCSD	LCS/ LCSD	LCS/LCSD Control Limits	Parent	Parent	MS	Ms	D	MS/ MSD	MS/MSD Control Limits

LCL UCL RPD

%

110

%

20

%

90

Result

Conc

1474.1

Spiked

Conc

3750.0

MS Recovery

% С Conc

Conc

5167.2 98.5

Spiked

3750.0

Sample

Number

890024-001

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Page 5

Report Date: 10/24/2007

Conc = ug/L unless otherwise noted

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.

C = QC Code, see Qualifer Sheet

Spiked

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LCS Recovery

% c Conc

98.3

Conc

295

LCSD Recovery

% Ċ % C

Conc

RPD

...

Result

<

Conc

3.4

Spiked

Conc

300.00

Test Name

Chromium, Hexavalent

MSD Recovery

% C % c %

102.0

Conc

5299.9

RPD

2.5

LCL UCL RPD

%

20

%

110

90

1244 Ballauna Chroat

\sim	Sam	ple (Conc	litior	ı Up	on Rece	eipt					
Pace Analytical [®]	Client Name:		_0	MI	51			Project	#	890	2024	<u> </u>
Courier: D Fed Ex DP Tracking #:	S 🗍 USPS 🗍 Client		Commo	ercial	Ÿ	Pace Othe	r	1	7 . 6	ell Ma Dail Giùnas		
Custody Seal on Cooler/Bo	x Present: 🗌 yes	¢۲ ا	סו	Seals	intac	t: 🗌 ye	s 🗌	no		GIPTES	yahi dinin ng kalanan mangan maka kalang	1997 1997 - 1997 299 - 1997 1997 - 1997
Packing Material: 🔲 Bubbl	e Wrap 🔲 Bubble B	Bags	[⊅ N	lone		Other						
Thermometer Used			•	\sim		ue None		Samples on				
Cooler Temperature Temp should be above freezing t	POI	Biolog	gical 1	lissue		ozen: Yes ments:	No	Date an conte	id Initi nts:	als of po id 23 il 16	erson exa っつ 2 3/V	amining
Chain of Custody Present:	······································	N Pres	□No	□n/a	1.			••••••			····	
Chain of Custody Filled Out:		Pres	[]No		2.			· ··· ··· ··· ··· ··· ··· ···				
Chain of Custody Relinquishe	ed:	17 Pres	⊡N₀		3.							
Sampler Name & Signature o	n COC:	P Pres	⊡No	⊡n/a	4.							
Samples Arrived within Hold		Afres	□No		5.							
Short Hold Time Analysis (<	<72hr):	Øres	⊡ N₀		6.	HEXA	CHRO	IME				
Rush Turn Around Time Re	quested:	 □Yes										
Sufficient Volume:) Ales	7 □No		8.							
Correct Containers Used:		P Pes			9.							
-Pace Containers Used:		Pres	□No									
Containers Intact:		X Yes			10.							
Filtered volume received for D	Dissolved tests	Yes			11.							
Sample Labels match COC:		Kyses	⊡ No		12.							_
-Includes date/time/ID/Ana		<u> </u>		_								
All containers needing preservation	have been checked.	□Yes	⊡No	DOWA	13.							
All containers needing preservation compliance with EPA recommend		□Yes	⊡No	Dan va				r	·			
exceptions: VOA, coliform, TOC, O&	G, WI-DRO (water)	□Yes	□No		Initial comp	when leted		Lot # of add preservative				
Samples checked for dechlori		□Yes			14.	· · ·						
Headspace in VOA Vials (>6)		□Yes		SAN /A	15.							
Trip Blank Present:		□Yes		DAN/A	16.							
Trip Blank Custody Seals Pres	sent	□Yes	□No	IŞÜN VA								
Pace Trip Blank Lot # (if purch				1								_
Client Notification/ Resolution								Field Data R	equire	42	Y /	N
Person Contacted:	- · · · •			Date/	lime:						•••	
Comments/ Resolution:												
							• •					
	······					·····		<u> </u>				
Project Manager Review:		K	5					Date	e:		0-2	4-07

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

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*Procession Codes	WAYNER 1 ASSOCIA	
Project Contact: BRIAN WAYARR Phone: 920 / 830 - 6141 Project Number: N1866A05 / 003 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH	E WAYNER 1 Associa	
Project Contact: BRIAN WAYNER Phone: Q20/030-6141 Project Number: N1866A05/003 A=None B=HCL C=H2S04 D=HNO3 E=DI Water F=Methanol G=NaOH	WAYNER 1 ASSOCIA	
Phone: 920/030-6141 CHAIN OF CUSTODY Mail To Contact: BRIAN Project Number: N1866A05/003 A=None B=HCL C=H2S04 D=HNO3 E=DI Water F=Methanol G=NaOH Mail To Company: OMNO H=Sodium Bisulfate Solution I=Sodium Disputfate J=Other International G=NaOH International G=NaOH International G=NaOH International G=NaOH International G=NaOH International G=NaOH	1 Associa	
Project Number: N1866A05/003 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH Mail To Company: OMNN		
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other		+TRS
	VENO VEN	,VR
	<i>ے, تکا ج</i> 49	114
	WAYNER	-
Sampled By (Sign): Q , Q /)	2N1	
PO #:		<u> </u>
Data Package Options (billable) MS/MSD Matrix Codes Data Package Options (billable) MS/MSD Matrix Codes Data Package Options (billable) On your sample A = Air B = Blota W = Water DW = Dinking Water		
Data Package Options (billable) MS/MSD Matrix Codes On your sample A = Air W = Water B = Blota Dw = Drinking Water C = Charcoal GW = Ground Water B = PA Level IV NOT needed on your sample S = Soil S = Soil WW = Water S = Soil WW = Water S = Soil WW = Waste Water S = Sludge W = Wuset S = Sludge W = Wuset S = Soil W = Waster S = Sludge W = Wise S = Sludge W = Wise S = Sludge W = Wise S = Sludge W = Waster S = Sludge W = Wise S = Sludge W = Waster S = Sludge <td< td=""><td>0-6141</td><td></td></td<>	0-6141	
EPA Level III (billable) C Charcoal DW = Dunking Water 2 2 2 EPA Level IV NOT needed on your sample SW = Sourdace Water 2 2 2 2 2 2 PACE LAB # CLIENT FIELD ID Collection MATRIX MATRIX MATRIX MATRIX MATRIX	·····	file #
	ncPocy	
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	······································	
	<u></u>	
		<u></u>
	PACE Project No.	
(Rush TAT subject to approval/surcharge) Brin U. Wayner 10/23/07 7:10 Dr. Maller 10/23/07 8:45	29mzv	
Transmit Proline Ruch Possilite by (complete what you want)	5102	
Email #1: Received by: Date/Time: Received by: Date/Time:	t Temp = ROJ	<u> </u>
Email #2:	Sample Receipt pH OK / Adjusted	Ĥ
Telephone: Relinquished By: Date/Time: Received By: Date/Time: Fax:	CR / Adjusted	ieal
Samples on HOLD are subject to Relinquished By: Date/Time: Received By: Date/Time: P	resent / Not Prese Intact / Not Intact	sent

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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: 890301

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Lab Sample Collection Field ID Matrix Number Date

890301-001 OUTFALL 001

WATER 10/30/07 06:25

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

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.. 1-1-07 Page 1 of Date Approval Signature

Pace Analytical Services, Inc.	An	alytic	al Re	port	Numbe	er: 890301	1241 Bellevue Street Green Bay, WI 54302 920-469-2436				
Client : OMNNI Project Name : MAUTH Project Number : N1866A Field ID : OUTFA	E 05/003	S, INC.					Collect Rep	trix Type : WATE tion Date : 10/30/ port Date : 11/01/ Number : 89030	07 07		
INORGANICS											
Test	Result	LOD	LOQ	EQL	Dil.	Units	Code Anl Date/Time	Prep Method	Anl Method		
Chromium, Hexavalent	1900	42	140		1	ug/L	10/30/07 02:40 F Prep Date/Time: 10/30	PM SM 3500 Cr-B D/07 02:40 PM A			

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Qualifier Codes

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1	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.
	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
	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.
	All	Elevated detection limit.
	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
	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.
	Organic	Analyte concentration exceeds calibration range.
	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte ha been confirmed by and reported from an alternate method.
	Organic	Surrogate results outside control criteria.
i	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.
I	All	Preservation, extraction or analysis performed past holding time.
F	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.
	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
	All	Elevated detection limit due to low sample volume.
	Organic	Sample pH was greater than 2
	All	Spiked sample recovery not within control limits.
	Organic	Sample received overweight.
	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
	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.
	All	The analyte was not detected at or above the reporting limit.
	A!I	Sample received with headspace.
1	All	A second aliquot of sample was analyzed from a container with headspace.
	All	See Sample Narrative.
	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.
	Ali	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.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
	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.
	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.
	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.
	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.
	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.

Pace Analytical Services, Inc.		Analysis Summary by Laboratory	1241 Bellevue Street Green Bay, WI 54302
Test Group Name	890301-001		
CHROMIUM, HEXAVALENT	В		
Code WI Certification B 405132750 / DATCP: 105-444			

Pace Analytical Services, Inc.			QC Summary			Green Bay, WI 54302 920-469-2436 Fax: 920-469-8827
Batch:	890301			QC Type	Client Sample ID	Lab Sample ID
Lab Section:	WETCHEM			MB	WCG2270-072MB	WCG2270-072MB
QC Batch Number:	26187			LCS	WCG2270-072MBLCS	WCG2270-072MBLCS
Prep Method:	SM 3500 Cr-B			MS	OUTFALL 001MS	890301-001MS
Analytical Method:	SM 3500 Cr-B			MSD	OUTFALL 001MSD	890301-001MSD
Client Sample ID OUTFALL 001	Lab Sample ID 890301-001	MB ID MB	Client Sample ID	Lab San	nple ID MB ID	

	Method Blank	LCS			LCSD				CS/ CSD	-	CS/LCS		Parent	Parent	MS			MSD			MS MS			MS/MSI	
Test Name	Result	Spiked	LCS R	Recovery	Spiked	LCSD F	Recover	y R	RPD	LCL	UCL	RPD	Sample	Result	Spiked	MS R	ecovery	Spiked	MSD F	Recovery	RP	D	LCL	UCL	RPD
	Conc	Conc	Conc	%	C Conc	Conc	%	C %	6 C	%	%	%	Number	Conc	Conc	Conc	% C	Conc	Conc	% C	%	С	%	%	%
Chromium, Hexavalent	< 3.4	300.00	307.8	102.6					·	90	110	20	890301-001	1900.0	3750.0	5635	99.6	3750.0	5481.4	95.5	2.8		90	110	20

Conc = ug/L unless otherwise noted	Report Date:	11/1/2007
C = QC Code, see Qualifer Sheet	QC Batch Number:	26187
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 for	m.	Page

Page 5

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San	nple Conditior	Upon Receipt	I
Pace Analytical Client Name	OMNNI	Assoc I	Project #
Courier: Fed Ex UPS USPS Clier		·	
Custody Seal on Cooler/Box Present: 🗍 yes	🕅 no Seals	intact: 🗌 yes 🔲	no
Packing Material: Bubble Wrap Bubble	Bags 🕅 None	Other	
Thermometer Used <u>NIA</u>	Type of Ice: We	Blue None	Samples on ice, cooling process has begun
Cooler Temperature <u>Rot</u> : Temp should be above freezing to 6°C	Biological Tissue	is Frozen: Yes No Comments:	Date and Initials of person examining contents: <u>cf 101301070</u>
Chain of Custody Present:		1.	
Chain of Custody Filled Out:	Yes DNo DNA	2.	
Chain of Custody Relinquished:		3.	
Sampler Name & Signature on COC:		4.	
Samples Arrived within Hold Time:			· · · · · · · · · · · · · · · · · · ·
Short Hold Time Analysis (<72hr):	Pres INO IN/A	6. HEXA CHR	OME
Rush Turn Around Time Requested:	UYes DINO DINA		
Sufficient Volume:	ØYes ONO ON/A	8.	
Correct Containers Used:	DYes ONO ON/A	9. ⁻	
-Pace Containers Used:	BYES DNO DN/A		
Containers Intact:	DYes DNO DNA	10.	
Filtered volume received for Dissolved tests	DYes DNo DNA	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.	Dyes DNO DNA		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	OYes ONo	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	DYes DNO RINA	14.	
Headspace in VOA Vials (>6mm):		15.	
Trip Blank Present:		16.	
Trip Blank Custody Seals Present	□Yes □No ØN/A		
Pace Trip Blank Lot # (if purchased):	<u> </u>	<u> </u>	
Client Notification/ Resolution:		<u> </u>	Field Data Required? Y / N
Person Contacted:	Date/	Time:	
Comments/ Resolution:			
		· · · · · ·	
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	· · · · · · · · · · · · · · · · · · ·		
Project Manager Review:	RA	•••	Date: 10-31-07
Note: Whenever there is a discremancy affecting North Ca		unles a conv of this form will	be sent to the North Carolina DEHNR

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:	OM	NNI	Assoc	ATE	s.		∕.				. 19			MN: 61	12-607-	1700	WI: 920-469-2436			02	106/
Branch/Locat	tion:			RTON				1	ace		lytic					d			COC No.		03	1264
Project Conta	act:	BR	LIAN	WAYN	R.L.					vv ve tv. pe		X			2	19		Quote #:	MA	UTHE		
Phone:				0-6141			I	С	HA:	NIN	OF	CI	JS.	ΤΟΙ	DY			Mail To Contact:	Ben	an way	NER	-
Project Numb	ber:	N	اماما 8 \	905/00	3		A=Non	ne B¤H		H2SO4	Preserve D≈HNO3	ation Cod		=Methanc	ol G≖Na	аон		Mail To Company:		NNIAS		
Project Name	ə:		MAU-				H=Sod	lium Bisulf	ate Soluti	on	I=Sodiur	n Thiosulfa	ate J=	Other				Mall To Address:		SYSTEM		
Project State:	:		S				FILTER (YES/I		VAN	2								·		ton, w		
Sampled By ((Print):	B	RIAN	S WAY	WER		PRESERV (COD		(ALGA) Lattor	A								Invoice To Contact:	BR	IAN W	$\sim \sim$	2R
Sampled By ((Sign):	Ru	<u>_</u> 2.	Wayn	1		(-,										Invoice To Company:		mon1		
PO #:		_~_			Regulat Progra				sted									Invoice To Address:				
Data Packa		tions	MS/I	MSD		Matrix	Codes		educ	55												
		111	On yo (bil	ur sampie llable)	A = Air B = Biota C = Charco O = Oil	D\ bal G\ S\	Water W = Drinking W = Ground W = Surface	Water Water	Analyses Requested	HEYPLALINT CHROMIUN								Invoice To Phone:				
PACE LAB #		<u> </u>		sample			W = Waste P = Wipe TION TIME	Water MATRIX	क्रिताच	ション								CLIENT COMMENTS		OMMENT Use Only)		Profile #
01		· · · · · · · · · · · · ·	FALL				6:25	GW		X										50 mc	~	1
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Rush Tu	urnarou		e Reques	sted - Preli	ms	Relingu	ished By:		<u> </u>	1		ate/Time:		L	Received	1 Był		/ & /Date/Jime:		PAC	E Projec	t No.
1	TAT su	ibject to	approva	l/surcharg		la la	Frin	<u>J 1</u>	Way	un	10/2	107	6:9	5Am	12	Ker	M	200 /30/01	084		103	~ 1
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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: 890575

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

 Lab Sample
 Collection

 Number
 Field ID
 Matrix
 Date

 890575-001
 OUTFALL 001
 WATER 11/06/07 07:31

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

Approval Signature

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Page 1 of 8

Pace Analytical Services, Inc.	An	•		port		er: 890575 1241 Bellevue Street Green Bay, WI 54302 920-469-2436	
Client : OMN	NI ASSOCIATES	S, INC.			 		Matrix Type: WATER
Project Name : MAU	ГНЕ						Collection Date: 11/06/07
Project Number: N186	6A05/003						Report Date: 11/30/07
Field ID : OUT	ALL 001						Lab Sample Number: 890575-001
INORGANICS							
Test	Result	LOD	LOQ	EQL	Dil.	Units	Code Anl Date/Time Prep Method Anl Method
Chromium - Dissolved	1300	0.43	1.4		1	ug/L	11/28/07 07:00 AM SW846 3020A SW846 6020
		•					Prep Date/Time: 11/27/07 09:05 AM Anl By: MSB
Chromium, Hexavalent	1900	34	110		1	ug/L	11/07/07 07:10 AM SM 3500 Cr-B SM 3500 Cr-E
							Prep Date/Time: 11/07/07 07:10 AM Anl By: DDY



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Qualifier Codes

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Flag Applies To Explanation

Flag	Applies To	Explanation
Ā	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.
Ρ	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
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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	39057		
Test Group Name	890575-001		
CHROMIUM - DISSOLVED	B		
CHROMIUM, HEXAVALENT	В		
Code WI Certification			
B 405132750 / DATCP: 105-4	44		
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Pace Analytical Services, Inc.			QC Summary			1241 Bellevue Street Green Bay, Wi 54302 920-469-2436 Fax: 920-469-8827
Batch:	890575			QC Туре	Client Sample ID	Lab Sample ID
Lab Section:	METALS			MB	MBDMTG2324-31	MBDMTG2324-31
QC Batch Number:	26928			LCS	LCSDMTG2324-31	LCSDMTG2324-31
Prep Method:	SW846 3020A			MS	891196-001MS	891196-001MS
Analytical Method:	SW846 6020			MSD	891196-001MSD	891196-001MSD
Client Sample ID OUTFALL 001	Lab Sample ID 890575-001	MB ID MB	Client Sample ID	Lab San	nple ID MB ID	

	Method Blank	LCS			LCSD			LCS/	Co	CS/LCS	nits	Parent	Parent	MS			MSD			MS/ MSD	с	MS/MS ontrol Li	- 1
Test Name	Result Conc	Spiked	LCS Rei Conc	covery %	Spiked Conc	LCSD F Conc	Recovery	RPD	LCL	UCL	RPD	Sample Number	Result Conc	Spiked Conc	MS Re Conc	covery % C	Spiked Conc	MSD F Conc	Recovery	RPD		UCL	RPD
Chromium - Dissolved	< 0.43	200.0		93.1	-				75	125	20	891196-001	1.020	200.0		85.8	200.0	182.8	90.9	5.7	75	125	20

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Conc = ug/L unless otherwise noted	Report Date:	11/30/2007
C = QC Code, see Qualifer Sheet	QC Batch Number:	26928
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 fo	rm.	Page

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Page 5

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Pace Analytical Services, Inc.			QC	Summary	/			1241 Bellevue Street Green Bay, WI 5430 920-469-2436 Fax: 920-469-8827
Batch:	890575				QC Type	Client Sample ID	Lab Sample ID	
_ab Section:	WETCHEM				MB	WCG2270-076MB	WCG2270-076I	мв
QC Batch Number:	26398				LCS	WCG2270-076MBLCS	WCG2270-076	MBLCS
Prep Method:	SM 3500 Cr-B				MS	OUTFALL 001MS	890575-001MS	
Analytical Method:					MSD	OUTFALL 001MSD	890575-001MS	D
Client Sample ID OUTFALL 001	Lab Sample ID 890575-001	MB ID MB	Client Sa	mple ID	Lab San	nple ID MB ID		
	ihod i			CS/LCSD				MS/MSD

Method LCS Control Limits MS/ Control Limits LCSD LCSD MSD MSD Blank LCS Parent Parent MS MS Recovery Test Name Spiked LCS Recovery Spiked LCSD Recovery RPD LCL UCL RPD Sample Result Spiked Spiked MSD Recovery RPD LCL UCL RPD Result Conc % % · C % % Conc Conc Conc % Conc Conc % % % % % Conc Conc Сопс % С Conc C % Number С С C 324 108.0 90 110 20 890575-001 1894.2 3000.0 4949.2 101.8 3000.0 4882.2 99.6 110 20 Chromium, Hexavalent 3.4 300.00 ----<u>.</u> 1.4 90 ----

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifer Sheet

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.

Report Date: 11/30/2007

QC Batch Number: 26398

Page 6

	San	iple (Cond	ditior	Upon	Receipt			
Pace Analytical Cli	ent Name:		<u>m</u>	UŢ	Ass	x	Pro	oject #	90575
Courier: Fed Ex UPS	USPS 🗌 Client	t 🗆 (Comm	ercial	Pace	Other			
Custody Seal on Cooler/Box Pres	ent: 🗌 yes		10	Seals	intact:	🗌 yes	🗌 no		North Contraction of the second s
Packing Material: 🔲 Bubble Wra	p 🔲 Bubble I	Bags	21	lone	Other	_			
Thermometer Used -		Туре о	of Ice:	: Wet) Blue	None	Sar		ng process has begu
Cooler Temperature	201	Biolo	gical '	Tissue	is Frozen Commen	: Yes No I ts:		Date and Initials contents: //	of person examining $-1e-07$
Chain of Custody Present:		DYes	□No		1.				
Chain of Custody Filled Out:		Pres	⊡ No		2.				
Chain of Custody Relinquished:		ØYes			3.				
Sampler Name & Signature on COC	:	₽ Yes	⊡N₀		4.				
Samples Arrived within Hold Time:		Pres	□No		5.				
Short Hold Time Analysis (<72hr):		Pres			6. C/	2+6			
Rush Turn Around Time Requeste	ed;	□Yes	ÐN6		7.				
Sufficient Volume:		ElYes	⊡ No		8.	_			
Correct Containers Used:		⊡ Yes		🗆 N/A	9.				
-Pace Containers Used:		12 Yes	□No						
Containers Intact:		Pres			10.				
Filtered volume received for Dissolve	ed tests	Ø¥es			11.				
Sample Labels match COC:		DYes	0No		12.				
-Includes date/time/ID/Analysis		W						- .	
All containers needing preservation have be	een checked.	Ø¥es	□No		13.				
All containers needing preservation are from the compliance with EPA recommendation.	ound to be in	ØYes	□No	DN/A			. I		
exceptions: VOA, coliform, TOC, O&G, WI-DF	RO (water)	□Yes			Initial when completed	CJ		# of added ervative	
Samples checked for dechlorination:		DYes	⊡No	⊡†N /A	14.	·····			······································
leadspace in VOA Vials (>6mm):		□Yes	□No	EIN /A	15.				
Frip Blank Present:		□Yes	DNo		16.				
Trip Blank Custody Seals Present		□Yes	□No	DIN A					
Pace Trip Blank Lot # (if purchased):	<u></u>								
Client Notification/ Resolution:							Field	Data Required?	Y / N
Person Contacted:				Date/1	ïme:				
Comments/ Resolution:								-	
					<u> </u>		<u></u>		
<u></u>			·						
Project Manager Review:			•		<u> </u>	••••		Date:	11-7-07

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F-ALLC003rev.3, 11September2006

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Company Name:	OMNNI ASSOCIA	TES		Ζ.							MN: 61	2-607-	1700	WI: 920-469-2436			
Branch/Location	APPLETON	2			ace	Ana	I YTICi celabs.c								COC No.		031265
Project Contact:	BRIAN WAY	NER] /		I	www.pa	021808.0	UNT						Quote #:	MF	SUTHE	
Phone:	920/830-6(41			С	HA	IN	OF	Cl	JSI		DY			Mall To Contact:			DAYNER
Project Number:	N1866A05/063		A=No	one B=H	CL C≖H	-	Preserva D≃HNO3			Methano	ol G=Na	юн		Mail To Company:			SOCIATES.
Project Name:	NAUTHE		H=Sc	dium Bisulfa	ate Solutio	ń	I=Sodium	Thiosulfa	te J=	Other]		Mail To Address:		SYSTEMS	
Project State:	(Cu		FILTE (YES	RED? (NO)	∇ / D	2	Y								APPLET	CON, WOT	54914
Sampled By (Prir	nt): BRIAN WAY	VER	PRESER (CO	VATION DE)*	Pick	N	D			·				Invoice To Contact:	BRI	an Wa	YNRA
Sampled By (Sig	nt: BRIAN WAY	n r												Invoice To Company:		0220	
PO #:		Regulatory Program:			estec	55	ž							Invoice To Address:			
Data Package			rix Codes	;	edu	10	いて										
(billable)	evel III (billable)	A = Air B = Blota C = Charcoal O = Oll	W = Water DW = Drinki GW = Grour SW = Surfac	nd Water	Analyses Requested	HEXPLALENT CHROMIUM	CHROMIN							Invoice To Phone:	920/	12-028	4\
EPA Le		S = Soil SI = Sludge	WW = Wast WP = Wipe		Tiell	ώŦ	ざ							CLIENT		OMMENT	
PACE LAB #	CLIENT FIELD ID	DATE	ECTION TIME	MATRIX										COMMENTS		Jse Only)	
∞	OUTFALL OOI	11/10	7:31	GW		X	X								2-250	MP A	+D
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	F subject to approval/surcharge Date Needed:	·	quiphed By:	<u>L Ma</u>	upen !!	10.5		٥٦ te/Time;	9:2	DAM	Received		Uf-	- Dull A Date/Time:	n m	290	575
	Rush Results by (complete what you v	want):	N AA V	NEK	21112	Ry	<u>))</u>]]	610	7 11	BD			0			Receipt Temp	
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Email #2: Telephone:		Reli	nquished By:	V			Da	te/Time:			Received	Bv:		Date/Time:		•	/ Adjusted
Fax:																	Custody Seal
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ace Analytical®

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

Analytical Report Number: 891464

Client: OMNNI ASSOCIATES, INC.

Lab Contact: Brian Basten

Project Name: MAUTHE

Project Number: N1866A05/003

Lab Sample Number	Field ID	Matrix	Collection Date
891464-001	OUTFALL 001	WATER	12/04/07 08:21

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

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

ACCOR 12-11-07 val)Signature Date Appr

Page 1 of 7

Pace Analytical Services, Inc.	An	alytic	al Re	port	Numbe	r: 891464	1241 Bellevue Street Green Bay, WI 54302 920-469-2436			
Client : OMNN		S, INC.					Ma	atrix Type: WATER		
Project Name : MAUT	HE						Collec	tion Date: 12/04/07		
Project Number: N1866	A05/003						Re	port Date: 12/11/07		
Field ID : OUTF	ALL 001						Lab Sample	e Number: 891464-001		
INORGANICS										
Test	Result	LOD	LOQ	EQL	Dil.	Units	Code Anl Date/Time	Prep Method Ani Method		
Chromium - Dissolved	2500	0.43	1.4		1	ug/L	12/07/07 05:16	PM SW846 3020A SW846 6020		
		•					Prep Date/Time: 12/0	7/07 08:50 AM Anl By: MSB		
Chromium, Hexavalent	3100	42	140		1	ug/L	12/05/07 07:25	AM SM 3500 Cr-B SM 3500 Cr-B		
	•						Pren Date/Time: 12/0	5/07 07:25 AM Anl By: DDY		

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

Lab Number	TestGroupID	Field ID	Comment
891464	M-*-D	All Samples	X - Internal standard limits of 30-140% used. All QC within limits.

Qualifier Codes

A		Explanation Applyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally,
•	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.
;	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
•	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.
;	All	Elevated detection limit.
)	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
Ī	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.
	Organic	Analyte concentration exceeds calibration range.
	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.
	Organic	Surrogate results outside control criteria.
6	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.
ł	All	Preservation, extraction or analysis performed past holding time.
łF	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.
	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
	All	Elevated detection limit due to low sample volume.
	Organic	Sample pH was greater than 2
	All	Spiked sample recovery not within control limits.
	Organic	Sample received overweight.
	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
ł	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
	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.
I	All	The analyte was not detected at or above the reporting limit.
	All	Sample received with headspace.
/	All	A second aliquot of sample was analyzed from a container with headspace.
	All	See Sample Narrative.
	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.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
	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.
	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.
	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.
	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.
	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
	morganic	

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	Analysis Summary by Laboratory	1241 Bellevue Street Green Bay, WI 54302
891464-001		
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В		
	В	891464-001 8

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* /	ample Condition	n Upon Receipt		
Pace Analytical Client Nam	e: OMNNI	Assoc	Project #	891464
لمر Courier: 🔲 Fed Ex 🗍 UPS 🗌 USPS الصلح Tracking #:	ient Commercial	Pace Other		ell De Date
Custody Seal on Cooler/Box Present: 🗌 ye	s no Seals	s intact: 🗌 yes	no	
	le Bags - None			
Thermometer Used	Type of Ice: We	<u> </u>		ooling process has begun
		is Frozen: Yes No	Date and Init	als of person examining
Cooler Temperature <u>KCL</u> Femp should be above freezing to 6°C		Comments:	contents:	LUCI LICE
Chain of Custody Present:	TYes ONO ON/A	1.		
Chain of Custody Filled Out:		2.		
Chain of Custody Relinquished:		3.		
Sampler Name & Signature on COC:		4.	<u>.</u>	
Samples Arrived within Hold Time:	Dres Ono Onva	5.		
Short Hold Time Analysis (<72hr):	Elves Ino Inva	6. HEXActtR	OME	
Rush Turn Around Time Requested:		7.		
Sufficient Volume:		8.		
Correct Containers Used:	Elyes DNO DN/A	9.		
-Pace Containers Used:	Elyes ONO ON/A			
Containers Intact:	EYes DNO DN/A	10		
Filtered volume received for Dissolved tests	DYes DNo DN/A	11.	····	
Sample Labels match COC:		12.		
-Includes date/time/ID/Analysis Matrix:	 Øyes ©no ©n/a	13.		
Il containers needing preservation are found to be in compliance with EPA recommendation.	Dites DNO DN/A			·····
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	Yes No	Initial when completed FSL	Lot # of added preservative	
Samples checked for dechlorination:	DYes DNo DN/A	14.		
leadspace in VOA Vials (>6mm):		15.		
rip Blank Present:	DYes DNo DINA	16.		
rip Blank Custody Seals Present	🛛 Yes 🖾 No 💭 🕅 🗛	ſ		
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:	<u> </u>	·····	Field Data Require	d? Y / N
Person Contacted:	Date/	Time:		
Comments/ Resolution:			·····	
		· · ·		
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Project Manager Review:	RS		Date:	12-4-07

1 Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers) ۰.

F-ALLC003rev.3, 11September2006

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Company Name:											UPPER	MIDWES	ST RE	GION	11	Page	1 of 1
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Branch/Location:	APPLETON		1 /		ace	Ana									COC No.		031266
Project Contact:	BRIAN WAYNI	<i>ce</i>] /			www.pe	celabs.c	Qin						Quote #:	M	AUTHE	· · · · · · · · · · · · · · · · · · ·
Phone:	920/830-614]	C	;HA	NIN	OF		JS.	ΓΟ	DY			Mail To Contact:	-		DAYNER
Project Number:	N 1866A05/00	3	A=No	ine B=H	ICL C=	-	Preserva D=HNO3			=Methan	ol G=N	юн	Γ	Mail To Company:			OCIATES
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Sampled By (Print	BICKIN WRYN	ir	PRESER (COI		Pick Letter	A	D							Invoice To Contact:	BR	LIAN W	aynar
Sampled By (Sign		in												Invoice To Company:		NUNI	
PO #:		Regulatory Program:			estec	51	\$						ſ	Invoice To Address:			
Data Package C			trix Codes	1	Sequ	Ϋ́,	, ,										
(billable)	el III (billable)	a = Air ■ Biota C = Charcoal D = Oil	OW = Water DW = Drinki GW = Groun SW = Surfac	d Water	Analyses Requested	HEXAVALCNT	CHROMIUM						-	Invoice To Phone:	9201	830-6	141
EPA Lev			WW = Wast WP = Wipe LECTION	e Water MATRIX	Anal	HE, CH	4 C H						Γ	CLIENT COMMENTS	(DMMENTS Jse Only)	S Profile #
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(Rush TAT	subject to approval/surcharge)	Bin D	. Way	nı	12/	4/07		913	Onen		Mu	ęll	/ / / .	11:45	891	464
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Fax: Samples on HOLD are subject to Re special pricing and release of liability							Da	ite/Time:			Received	I By:	Date/Time: Cooler Custody Seal Present / Not Present Intact / Not Intact				/ Not Present