



Northeast Utilities System

Public Service of New Hampshire
Northeast Utilities System
Merrimack Station
97 River Road
Bow, New Hampshire 03304

Phone (603) 224-4081
Fax (603) 634-2334

February 28, 2013

Mr. Dana Clement
Superintendent
Allenstown Wastewater Treatment Facility
35 Canal Street
Allenstown, New Hampshire 03275

Re: January Wastewater Discharge Monitoring Report
Treated Wastewater
Merrimack Station
Public Service Company of New Hampshire
Bow, New Hampshire

Dear Dana:

Public Service Company of New Hampshire (PSNH) is pleased to submit the attached **Wastewater Discharge Monitoring Report (DMR)** for the period January 1, 2013 through January 31, 2013. This DMR is intended to satisfy the monthly sampling requirement as outlined in Industrial Discharge Permit (IDP) No. HWIU-PSNH. Wastewater (Softened Stream A) flow was approximately 64,000 gallons for the monitoring period and was estimated based on the actual number of tanker trucks sent to the Allenstown Wastewater Treatment Facility (Allenstown) from January 1, 2013 through January 31, 2013 and tanker capacity. Softened Stream A was the only approved waste stream discharged to Allenstown in January 2013.

Table 1 included in the Wastewater DMR summarizes the analytical results for all required parameters as outlined Part 2 Section A of the IDP. **Table 2** included in the Wastewater DMR summarizes wastewater shipments to Allenstown in the month of January 2013. The analysis of the Softened Stream A sample collected on January 26, 2013 was performed in accordance with the United States Environmental Protection Agency (EPA) draft Standard Operating Procedure (SOP) for trace metals analysis of flue gas desulfurization (FGD) wastewater. The SOP is described below.

ANALYTICAL DISCUSSION

FGD wastewater requires specialized analytical techniques to overcome matrix interference for certain analysis of trace metals. To assist you in evaluating this issue further, we offer an excerpt below from the EPA web site and a link to their draft SOP for trace metals analysis of FGD wastewater that contains further guidance.

LABORATORY ANALYSIS OF FGD WASTEWATER

Wastewater from FGD systems can contain constituents known to cause matrix interferences. EPA has observed that, during inductively coupled plasma – mass spectrometry (ICP-MS) analysis of FGD wastewater, certain elements commonly present in the wastewater may cause polyatomic interferences that bias the detection and/or quantization of certain elements of interest. These potential interferences



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may become significant when measuring trace elements at concentrations in the low parts-per-billion range.

As part of a recent sampling effort for the steam electric power generating effluent guidelines rulemaking, EPA developed an SOP that was used in conjunction with EPA Method 200.8 to conduct ICP MS analyses of FGD wastewater. The SOP describes critical technical and quality assurance procedures that were implemented to mitigate anticipated interferences and generate reliable data for FGD wastewater. EPA regulations at 40 CFR 136.6 already allow the analytical community flexibility to modify approved methods to lower the costs of measurements, overcome matrix interferences, or otherwise improve the analysis. The draft SOP developed for FGD wastewater takes a proactive approach toward looking for and taking steps to mitigate matrix interferences, including using specialized interference check solutions (i.e., a synthetic FGD wastewater matrix). EPA's draft SOP is being made available to laboratories contemplating ICP-MS analysis of FGD wastewater, either for adoption as currently written or to serve as a framework for developing their own laboratory-specific SOP. For further information please see EPA link below:

- Standard Operating Procedure: Inductively Coupled Plasma/Mass Spectrometry for Trace Element Analysis in Flue Gas Desulfurization Wastewaters (30 pp, 174K), http://water.epa.gov/scitech/wastetech/guide/steam-electric/upload/Steam-Electric_FGD_Draft-SOP_2011.pdf.

Considering that specialized analytical techniques are necessary to overcome matrix interference for certain analysis of trace metals in FGD wastewater, we recommend any analysis on FGD wastewater be conducted in accordance with the EPA draft SOP for trace metals analysis of FGD wastewater.

Should you have any questions, please contact Ron Breton with GZA at 232-8744 or me at 224-4081.

Sincerely,

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

Brad Owens, Station Manager

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Attachment

CONFIDENTIAL BUSINESS INFORMATION

**WASTEWATER DISCHARGE MONITORING REPORT
ALLENSTOWN WASTEWATER TREATMENT FACILITY**

Public Service Company of New Hampshire - Merrimack Station
Industrial Discharge Permit - Class I
Permit No. HWIU-PSNH
Issued November 26, 2012
Expires November 26, 2013

FACILITY INFORMATION

Company Name: Public Service Company of New Hampshire - Merrimack Station
Company Owner: Public Service Company of New Hampshire
Facility Address: 97 River Road
Facility Contact: Brad Owens
Telephone: (603) 224-4081

MONITORING REPORT

Submittal Date: 2/27/2013
Monitoring Point: Truck loading station
Reporting Period: January 2013

SAMPLE ANALYSIS

Certified Analytical Laboratory: Eastern Analytical Inc. (EAI) Certification Number 1012
Authorized Representative: Lorraine Olshaw
Analytical Subcontractor: Frontier Global Sciences Certification Number E87575

SAMPLE COLLECTION

Sampler: Paul Pepler, GZA
Sample Type: Grab
Sample Date: 1/26/2013 Sample Time 11:50 AM
pH: 7.79
Waste Stream: Softened Stream A

CATEGORICAL PRETREATMENT STANDARDS

40 CFR 423.16: Steam Electric Power Generating Category
NOTE: There are no numerical pretreatment standards for this source

CERTIFICATION STATEMENT

"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."

Bradley Owens
Printed Name of Authorized Representative


Signature of Authorized Representative

Station Manager
Title

2/27/2013
Date

TABLE 1 - SUMMARY ANALYTICAL DATA

Treated FGD Wastewater
Public Service Company of New Hampshire
Merrimack Station
Bow, New Hampshire

PARAMETER	SOFTENED STREAM A RESULTS 1/26/2013 (mg/L)	SOFTENED STREAM A RESULTS 2/07/2013 (mg/L)
Arsenic	<0.00150	-
BOD	<60	<6
Cadmium	0.000548	-
COD	170	-
Copper	0.00632	-
Lead	<0.000400	-
Mercury	0.0000413	-
Molybdenum	0.120	-
Nickel	<0.00100	-
pH	7.79	-
Selenium	0.0445	-
Silver	<0.000200	-
Sodium	7,190	-
TDS	23,000	-
TSS	<5	-

Note:

1. The analytical results and the flow data from the monitoring period indicate that the estimated pollutant mass in the discharge is below mass limits outlined in IDP No. HWIU-PSNH.
2. The analytical results indicate that on the day of sampling, the detected concentrations were below the respective screening levels. BOD was not detected above the laboratory reporting limit of 60 mg/L. However, the IDP screening level is 15 mg/L. While the data doesn't indicate an exceedance of the screening level, the reporting limit used by the laboratory is too high to demonstrate conformance with the screening level. Therefore, Softened Stream A Wastewater was resampled on February 7th. The results of this sample indicate that the BOD concentration was less than the laboratory reporting limit of 6 mg/L (which is less than the BOD screening level of 15 mg/L and consistent all previous BOD data).

TABLE 2
SUMMARY OF WASTEWATER SHIPMENTS TO ALLENSTOWN WASTEWATER TREATMENT PLANT
 Public Service Company of New Hampshire
 Merrimack Station
 Bow, New Hampshire

DATE	DAY	TICKET	TRUCKING COMPANY	pH	VOLUME	TOTAL DAILY VOLUME (gallons)
1/26/2013	Saturday	25962	ENPRO	-	8000	24,000
		25961	ENPRO	-	8000	
		25963	ENPRO	7.8	8000	
1/27/2013	Sunday	25967	ENPRO	-	8000	24,000
		25966	ENPRO	-	8000	
		25965	ENPRO	-	8000	
1/28/2013	Monday	25964	ENPRO	7.58	8000	16,000
		25968	ENPRO	7.41	8000	

Shipments (Number of Trucks)	8
Truck Volume (Gallons)	8,000
Total Volume Discharged (Gallons)	64,000
Maximum Daily Flow (gallons per day)	24,000
Average Daily Flow (gallons per discharge day)	21,333

PERMITTED FLOW

Stream A, Softened Stream A, Non-Contact Cooling Water, distillate or any combination: 100,000 gpd
 Stream B and Softened Stream B: 40,000 gpd



Eastern Analytical, Inc.

Professional laboratory & drilling services

Paul Pepler
GZA GeoEnvironmental, Inc. (NH)
380 Harvey Road
Manchester , NH 03103



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 117908
Client Identification: PSNH-MK
Date Received: 1/28/2013

Dear Mr. Pepler :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

- Solid samples are reported on a dry weight basis, unless otherwise noted
- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

2.14.13
Date

37
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 117908

Client: **GZA GeoEnvironmental, Inc. (NH)**

Client Designation: **PSNH-MK**

Temperature upon receipt (°C): 4.4

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
117908.01	Softened Stream A WW	1/28/13	1/26/13	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis. All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992



LABORATORY REPORT

EAI ID#: 117908

Client: **GZA GeoEnvironmental, Inc. (NH)**

Client Designation: **PSNH-MK**

Sample ID: Softened Stream A
WW

Lab Sample ID: 117908.01

Matrix: aqueous

Date Sampled: 1/26/13

Date Received: 1/28/13

Solids Suspended < 5

Solids Dissolved 23000

BOD < 60

COD 170

Units	Analysis		Method	Analyst
	Date	Time		
mg/L	1/29/13	10:10	2540D	SCW
mg/L	1/30/13	15:50	2540C	SCW
mg/L	1/28/13	10:45	5210B	SKC
mg/L	1/31/13	8:35	H8000	SCW

BOD: Although several dilutions were run on sample "Softened", oxygen depletion was not great enough to calculate a valid BOD result. An elevated detection limit has been reported.



QC REPORT

EAI ID#: 117908

Client: **GZA GeoEnvironmental, Inc. (NH)**

Client Designation: **PSNH-MK**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Solids Suspended	< 5	96 (96 %R)	93 (93 %R) (3 RPD)	mg/L	1/29/13	90 - 110	20	2540D
Solids Dissolved	< 5	990 (99 %R)		mg/L	1/30/13	85 - 115		2540C
BOD	< 6	410 (102 %R)	420 (106 %R) (4 RPD)	mg/L	1/28/13	84 - 115	20	5210B
COD	< 10	100 (101 %R)	95 (95 %R) (6 RPD)	mg/L	1/31/13	85 - 115	20	H8000

Samples were analyzed within holding times unless noted on the sample results page.
 Instrumentation was calibrated in accordance with the method requirements.
 The method blanks were free of contamination at the reporting limits.
 The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
 Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
 *! Flagged analyte recoveries deviated from the QA/QC limits.



11720 North Creek Parkway North, Suite 400
Bothell, WA 98011
Ph: 425-686-1996
Fx: 425-686-3096

12 February 2013

Jeff Gagne
Eastern Analytical, Inc
25 Chenell Drive
Concord, NH 03301
RE: Merrimack Station 200.8

Enclosed are the analytical results for samples received by Frontier Global Sciences. All quality control measurements are within established control limits and there were no analytical difficulties encountered with the exception of those listed in the case narrative section of this report.

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

Sincerely,

A handwritten signature in cursive script that reads "Liz Siska".

Liz Siska
Project Manager



11720 North Creek Parkway North, Suite 400
Bothell, WA 98011
Ph: 425-686-1996
Fx: 425-686-3096

ANALYTICAL REPORT FOR SAMPLES

Laboratory: Eurofins Frontier Global Sciences, Inc.

SDG:

Client: Eastern Analytical, Inc

Project: Merrimack Station 200.8

Sample ID	Lab ID	Matrix	Date Sampled	Date Received
Softened Stream A WW	1301407-01	Water	26-Jan-13 11:50	29-Jan-13 09:25
Field Blank Hg	1301407-02	Water	26-Jan-13 11:50	29-Jan-13 09:25

Eurofins Frontier Global Sciences, Inc.

A handwritten signature in cursive script that reads "Liz Siska".

Liz Siska, Project Manager

The results in this report only apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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CASE NARRATIVE

SAMPLE RECEIPT

Two (2) water samples were received January 29th, 2013 at Eurofins Frontier Global Sciences (EFGS). The samples were received intact, on-ice within a cooler at 6.0 degrees Celsius.

SAMPLE PREPARATION AND ANALYSIS

Sample preparation and analysis for trace metals was performed in accordance with EPA Method 200.8 with the use of a collision cell.

Sample preparation and analysis for total mercury was performed in accordance with EPA Method 1631E.

ANALYTICAL ISSUES

Liquid spikes were prepared for every preparation as a measure of accuracy. All liquid spikes and certified reference material (if applicable) were within the control limits.

As an additional measure of the accuracy of the methods used and to check for matrix interference, matrix spikes (MS) and matrix spike duplicates (MSD) were digested and analyzed. All of the matrix spike recoveries were within the control limits.

A reasonable measure of the precision of the analytical methods is the relative percent difference (RPD) between a matrix spike recovery and a matrix spike duplicate recovery and between laboratory control sample recovery and laboratory control sample duplicate recoveries. All of the relative percent differences were within the control limits.

Eurofins Frontier Global Sciences, Inc.

A handwritten signature in cursive script that reads "Liz Siska".

Liz Siska, Project Manager

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CHAIN OF CUSTODY FORMS

FGS Work Order: 1301407 **Sample Receipt Checklist** Frontier Global Sciences

Client: Eastern Analytical Date & Time Received: 1/29/13 0925 Date Logged In: 1/29/13 Date Labeled: 1/29/13

Project: _____ Received By: CD Logged By: AMB Labeled By: AMB

of Coolers Received: 1 Samples Arrived By: X Shipping Service _____ Courier _____ Hand _____ Other (Specify: _____)

Tracking/Airbill Number(s): UPS 1Z X46 599 01 9726 7464

Thermal Preservation: _____ None (Ambient) X Loose Ice _____ Gel/Blue Ice _____ Other (Specify: _____) Thermal Preservation Required: Y/N

Cooler Information:	Y/N	Comments	Thermometer ID:	CF:
The coolers do not appear to be tampered with:	<u>Y</u>		<u>3150</u>	<u>-0.1°C</u>
Custody Seals are present and intact:	<u>Y</u>	<u>None used</u>	Cooler 1: <u>0°C</u>	Cooler 4: <u>°C</u> Cooler 7: <u>°C</u> Cooler 10: <u>°C</u>
Custody seals signed by:	<u>AK</u>		Cooler 2: <u>°C</u> Cooler 5: <u>°C</u> Cooler 8: <u>°C</u> Cooler 11: <u>°C</u>	Cooler 3: <u>°C</u> Cooler 6: <u>°C</u> Cooler 9: <u>°C</u> Cooler 12: <u>°C</u>

Chain of Custody:	Y/N	Comments	Sample Condition/Integrity:	Y/N	Comments
Sample ID/Description:	<u>Y</u>		Sample containers intact:	<u>Y</u>	
Date/Time of collection:	<u>Y</u>		Sample labels are present and legible:	<u>Y</u>	
Sampled by:	<u>Y</u>		Sample ID on container matches COC:	<u>Y</u>	
Preservation type:	<u>N/A</u>		Correct sample containers used:	<u>Y</u>	
Requested analyses:	<u>Y</u>		Samples received within holding times:	<u>Y</u>	
Required signatures:	<u>Y</u>		Sample volume sufficient for requested analyses:	<u>Y</u>	
Internal COC required:	<u>Y</u>		Correct preservative used for requested analyses:	<u>N/A</u>	
			pH of preserved samples verified and recorded:	<u>N/A</u>	

Client Contacted: _____ Date/Time: _____ Method: _____

Anomalies/Non-conformances (attach additional pages if needed): _____ Discussion/Resolution: _____

Ice was completely melted prior to arrival at EFGS. - CD 1/29/13

Sample bags all had a small bright pink sticker on them that reads: "117908.01 Softened" AMB 1/29/13

FGS Sample Receipt Checklist Revision 2; 07/09/2012

Eurofins Frontier Global Sciences, Inc.

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Liz Siska

Liz Siska, Project Manager



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 Fx: 425-686-3096

CHAIN OF CUSTODY FORMS



Chain of Custody Record & Laboratory Analysis Request:
 Air, Water, Sediments, Plant and Animal Tissue,
 Hydrocarbon & Other Samples

11720 North Creek Parkway N
 Bothell, WA 98011
 Phone: 425-686-1996
 Fax: 425-686-3096
 info@FrontierGS.com
 http://www.FrontierGS.com

Page ___ of ___

Client: <u>Eastern Analytical, Inc.</u>		Contact: <u>Jeff Sagne</u>		FGS PM: <u>Liz Siska</u>														
Address: <u>25 Chenell Drive</u> <u>Concord, NH 03301</u>		Phone: <u>603/228-6625</u> Fax: <u>603/228-4591</u>		Date: <u>1/29/2013</u>														
Project Name		Contract/PO: <u>39862</u>		TAT (business days): <u>20</u> (std)														
Report To: <u>same as above</u>		Invoice To:		15 (10) 5 4 3 2 24 hrs.														
Address: <u>603/ 603/</u>		Address: <u>Same</u>		(For TAT < 10 days, contact PM.														
Phone: <u>228-0525</u> Fax: <u>228-4591</u>		Phone: Fax:		Surcharges apply for expedited TAT)														
E-mail: <u>customer.service@eastlab.com</u>		E-mail:		Saturday delivery? <input type="checkbox"/> Y <input type="checkbox"/> N														
				(If yes, please contact PM)														
				EDD <input type="checkbox"/> Y <input type="checkbox"/> N														
				QA <input type="checkbox"/> Standard <input type="checkbox"/> High														
				Comments														
No.	Engraved Bottle ID	Sample ID	# of Bottles	Matrix	Date & Time	Sampled By	Field Filtered (Y/N)	Field Preserved: HNO ₃ HCl BrCl Other (%)	Analyses Requested									
1	C-6502/6504	Softened Stream A W/W	2	AQ	1/24/13 1150	PTP	N	-										
2	C-7604	Field Blank Hg	1	AQ	1/24/13 1150	PTP	N	-	Hg									
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
For Laboratory Use Only		Matrix Codes:		Relinquished By:		Received By:		Received By:										
COC Seal: <u>Done</u>	Comments:	FW: Fresh Water	WW: Waste Water	Name: <u>Chris Johnson</u>		Name: <u>UPS</u>		Name: <u>[Signature]</u>										
Cooler Temp: <u>6.0 °C</u>		SB: Sea and Brackish Water	SS: Soil and Sediment	Organization: <u>Eastern Analytical</u>		Organization:		Organization: <u>EFGS</u>										
Carrier: <u>UPS</u>		TS: Plant and Animal Tissue	HC: Hydrocarbons	Date & Time: <u>1/28/13 1530</u>		Date & Time:		Date & Time: <u>1/29/13 0925</u>										
VTSR: <u>CRS</u>	<u>TID 3120</u>	TR: Trap	OT: Other	Tracking number: <u>12 X-16 599 01 9726 7464</u>														
# of Coolers:				By signing, you declare that you agree with FGS' terms and conditions, and that you authorize FGS to perform the specified analyses.														
Sample Disposal:				Customer Approval: _____				Date: _____										
<input type="checkbox"/> Return (shipping fees may apply)																		
<input type="checkbox"/> Standard Disposal - 30 Days after report																		
<input type="checkbox"/> Retain for ___ weeks after report (storage fees may apply)																		

Metals include
 As, Ag, Cd, Cu, Mo, Na,
 Ni, Pb, Hg, Se
 200.5 via Collision
 cell

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Liz Siska

Liz Siska, Project Manager

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ANALYTICAL RESULTS

Softened Stream A WW

Matrix: Water

Laboratory ID: 1301407-01

Analyte	Result	MDL	MRL	Units	Dilution	Batch	Sequence	Analyzed	Method	Notes
Arsenic	ND	0.43	1.50	µg/L	10	F302022	3B08012	02/08/13	EPA 200.8	U
Cadmium	0.548	0.032	0.200	µg/L	10	F302022	3B08012	02/08/13	EPA 200.8	
Copper	6.32	0.10	1.00	µg/L	10	F301262	3B04004	02/03/13	EPA 200.8	
Lead	ND	0.032	0.400	µg/L	10	F301262	3B04004	02/03/13	EPA 200.8	U
Mercury	41.3	0.84	5.05	ng/L	10	F302012	3B05007	02/04/13	EPA 1631E	
Molybdenum	120	0.077	1.20	µg/L	10	F301262	3B11008	02/08/13	EPA 200.8	
Nickel	ND	0.12	1.00	µg/L	10	F301262	3B04004	02/03/13	EPA 200.8	U
Selenium	44.5	3.15	6.00	µg/L	10	F302063	3B12002	02/12/13	EPA 200.8	
Silver	ND	0.020	0.200	µg/L	10	F302022	3B11007	02/09/13	EPA 200.8	U
Sodium	7190000	4990	2500000	µg/L	5000	F301262	3B11001	02/08/13	EPA 200.8	

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Liz Siska

Liz Siska, Project Manager

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ANALYTICAL RESULTS

Field Blank Hg

Matrix: Water

Laboratory ID: 1301407-02

Analyte	Result	MDL	MRL	Units	Dilution	Batch	Sequence	Analyzed	Method	Notes
Mercury	ND	0.08	0.50	ng/L	1	F302012	3B05007	02/04/13	EPA 1631E	U

Eurofins Frontier Global Sciences, Inc.

Liz Siska, Project Manager

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MATRIX DUPLICATES/TRIPPLICATES

SOURCE: 1301386-02

Batch: F302012

Sequence: 3B05007

Preparation: BrCl Oxidation

Lab Number: F302012-DUP1

Analyte	Sample Concentration ng/L	Duplicate Concentration ng/L	MRL	% RPD	RPD Limit	Method	Notes
Mercury	66.24	66.08	5.05	0.247	24	EPA 1631E	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01

Batch: F301262

Sequence: 3B04004

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F301262-MS/MSD1

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Nickel	0.39	4.0600	2.53	52.7	70 - 130	EPA 200.8	QM-07
Copper	6.32	4.0600	8.90	63.5	70 - 130	EPA 200.8	QM-02
Lead	ND	1.5225	1.294	85.0	70 - 130	EPA 200.8	

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Nickel	4.0600	2.30	47.0	9.54	70 - 130	20	EPA 200.8	QM-07
Copper	4.0600	8.40	51.3	5.75	70 - 130	20	EPA 200.8	QM-02
Lead	1.5225	1.335	87.7	3.15	70 - 130	20	EPA 200.8	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01

Batch: F301262

Sequence: 3B04004

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F301262-MS/MSD3

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Nickel	0.39	253.75	198.2	77.9	70 - 130	EPA 200.8	AS
Copper	6.32	253.75	200.9	76.7	70 - 130	EPA 200.8	AS
Lead	ND	50.750	43.61	85.9	70 - 130	EPA 200.8	AS

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Nickel	253.75	196.9	77.4	0.662	70 - 130	20	EPA 200.8	AS
Copper	253.75	204.3	78.0	1.70	70 - 130	20	EPA 200.8	AS
Lead	50.750	44.57	87.8	2.16	70 - 130	20	EPA 200.8	AS

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE2

Batch: F301262

Sequence: 3B11001

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F301262-MS/MSD7

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Sodium	7186000	507.50	7311000	24700	70 - 130	EPA 200.8	QM-02

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Sodium	507.50	6370000	-161000	13.7	70 - 130	20	EPA 200.8	QM-02

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE2

Batch: F301262

Sequence: 3B11001

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F301262-MS/MSD8

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Sodium	7186000	10150000	17430000	101	70 - 130	EPA 200.8	AS

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Sodium	10150000	17090000	97.6	1.98	70 - 130	20	EPA 200.8	AS

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE3

Batch: F301262

Sequence: 3B11008

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F301262-MS/MSD9

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Molybdenum	119.9	2.0300	121.2	67.0	70 - 130	EPA 200.8	QM-02

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Molybdenum	2.0300	121.8	96.5	0.494	70 - 130	20	EPA 200.8	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE3

Batch: F301262

Sequence: 3B11008

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F301262-MS/MSDA

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Molybdenum	119.9	101.50	236.7	115	70 - 130	EPA 200.8	AS

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Molybdenum	101.50	232.7	111	1.69	70 - 130	20	EPA 200.8	AS

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301386-02

Batch: F302012

Sequence: 3B05007

Preparation: BrCl Oxidation

Lab Number: F302012-MS/MSD1

Analyte	Sample Concentration (ng/L)	Spike Added (ng/L)	MS Concentration (ng/L)	MS % Recovery	Recovery Limits	Method	Notes
Mercury	66.24	204.00	261.8	95.8	71 - 125	EPA 1631E	

Analyte	Spike Added (ng/L)	MSD Concentration (ng/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Mercury	204.00	265.6	97.7	1.44	71 - 125	24	EPA 1631E	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1302024-04

Batch: F302012

Sequence: 3B05007

Preparation: BrCl Oxidation

Lab Number: F302012-MS/MSD2

Analyte	Sample Concentration (ng/L)	Spike Added (ng/L)	MS Concentration (ng/L)	MS % Recovery	Recovery Limits	Method	Notes
Mercury	2.43	5.1000	8.19	113	71 - 125	EPA 1631E	

Analyte	Spike Added (ng/L)	MSD Concentration (ng/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Mercury	5.1000	8.15	112	0.497	71 - 125	24	EPA 1631E	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE2

Batch: F302022

Sequence: 3B08012

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302022-MS/MSD1

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Arsenic	1.21	15.225	17.80	109	70 - 130	EPA 200.8	
Cadmium	0.548	0.81200	1.278	89.9	70 - 130	EPA 200.8	

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Arsenic	15.225	18.30	112	2.74	70 - 130	20	EPA 200.8	
Cadmium	0.81200	1.366	101	6.73	70 - 130	20	EPA 200.8	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE2

Batch: F302022

Sequence: 3B08012

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302022-MS/MSD2

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Arsenic	1.21	203.00	230.1	113	70 - 130	EPA 200.8	AS
Cadmium	0.548	20.300	21.38	103	70 - 130	EPA 200.8	AS

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Arsenic	203.00	232.6	114	1.05	70 - 130	20	EPA 200.8	AS
Cadmium	20.300	20.90	100	2.29	70 - 130	20	EPA 200.8	AS

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE2

Batch: F302022

Sequence: 3B11007

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302022-MS/MSD3

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Silver	ND	1.5225	1.134	74.5	70 - 130	EPA 200.8	

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Silver	1.5225	1.176	77.3	3.66	70 - 130	20	EPA 200.8	

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE2

Batch: F302022

Sequence: 3B11007

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302022-MS/MSD4

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Silver	ND	10.150	7.578	74.7	70 - 130	EPA 200.8	AS

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Silver	10.150	7.607	75.0	0.382	70 - 130	20	EPA 200.8	AS

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE3

Batch: F302063

Sequence: 3B12002

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302063-MS/MSD1

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Selenium	44.47	30.450	55.00	34.6	70 - 130	EPA 200.8	QM-02

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Selenium	30.450	63.41	62.2	14.2	70 - 130	20	EPA 200.8	QM-02

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY AND RPD

SOURCE: 1301407-01RE3

Batch: F302063

Sequence: 3B12002

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302063-MS/MSD2

Analyte	Sample Concentration (µg/L)	Spike Added (µg/L)	MS Concentration (µg/L)	MS % Recovery	Recovery Limits	Method	Notes
Selenium	44.47	203.00	220.1	86.5	70 - 130	EPA 200.8	

Analyte	Spike Added (µg/L)	MSD Concentration (µg/L)	MSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Selenium	203.00	228.8	90.8	3.89	70 - 130	20	EPA 200.8	

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LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE

RECOVERY AND RPD

Batch: F301262

Sequence: 3B04004

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F301262-BS/BS1

LCS Source: Blank Spike

Analyte	Spike Added (µg/L)	LCS Concentration (µg/L)	LCS % Recovery	Recovery Limits	Method	Notes
Sodium	500.00	473	94.6	85 - 115	EPA 200.8	
Nickel	4.0000	3.63	90.7	85 - 115	EPA 200.8	
Copper	4.0000	3.70	92.5	85 - 115	EPA 200.8	
Molybdenum	2.0000	1.778	88.9	85 - 115	EPA 200.8	
Lead	1.5000	1.317	87.8	85 - 115	EPA 200.8	

Analyte	Spike Added (µg/L)	LCSD Concentration (µg/L)	LCSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Sodium	500.00	471	94.2	0.449	85 - 115	20	EPA 200.8	
Nickel	4.0000	3.60	90.0	0.776	85 - 115	20	EPA 200.8	
Copper	4.0000	3.85	96.2	3.89	85 - 115	20	EPA 200.8	
Molybdenum	2.0000	1.723	86.1	3.14	85 - 115	20	EPA 200.8	
Lead	1.5000	1.361	90.7	3.28	85 - 115	20	EPA 200.8	

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LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE

RECOVERY AND RPD

Batch: F302012

Sequence: 3B05007

Preparation: BrCl Oxidation

Lab Number: F302012-BS/BSD1

LCS Source: NIST

Analyte	Spike Added (ng/L)	LCS Concentration (ng/L)	LCS % Recovery	Recovery Limits	Method	Notes
Mercury	15.679	16.00	102	77 - 123	EPA 1631E	

Analyte	Spike Added (ng/L)	LCSD Concentration (ng/L)	LCSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Mercury	15.679	16.19	103	1.17	77 - 123	24	EPA 1631E	

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LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE

RECOVERY AND RPD

Batch: F302022

Sequence: 3B08012

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302022-BS/BSD1

LCS Source: Blank Spike

Analyte	Spike Added (µg/L)	LCS Concentration (µg/L)	LCS % Recovery	Recovery Limits	Method	Notes
Arsenic	15.000	17.06	114	85 - 115	EPA 200.8	
Cadmium	0.80000	0.811	101	85 - 115	EPA 200.8	

Analyte	Spike Added (µg/L)	LCSD Concentration (µg/L)	LCSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Arsenic	15.000	17.25	115	1.09	85 - 115	20	EPA 200.8	
Cadmium	0.80000	0.844	105	3.93	85 - 115	20	EPA 200.8	

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LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE

RECOVERY AND RPD

Batch: F302022

Sequence: 3B11007

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302022-BS/BSD2

LCS Source: Blank Spike

Analyte	Spike Added (µg/L)	LCS Concentration (µg/L)	LCS % Recovery	Recovery Limits	Method	Notes
Silver	1.5000	1.493	99.5	85 - 115	EPA 200.8	

Analyte	Spike Added (µg/L)	LCSD Concentration (µg/L)	LCSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Silver	1.5000	1.522	101	1.89	85 - 115	20	EPA 200.8	

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LABORATORY CONTROL SAMPLE/ LABORATORY CONTROL SAMPLE DUPLICATE

RECOVERY AND RPD

Batch: F302063

Sequence: 3B12002

Preparation: Closed Vessel Nitric Oven Digestion

Lab Number: F302063-BS/BSD1

LCS Source: Blk Spk

Analyte	Spike Added (µg/L)	LCS Concentration (µg/L)	LCS % Recovery	Recovery Limits	Method	Notes
Selenium	30.000	28.08	93.6	85 - 115	EPA 200.8	

Analyte	Spike Added (µg/L)	LCSD Concentration (µg/L)	LCSD % Recovery	% RPD	Recovery Limits	RPD Limit	Method	Notes
Selenium	30.000	28.15	93.8	0.226	85 - 115	20	EPA 200.8	

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PREPARATION BLANKS

Instrument: ICPMS-5

Sequence: 3B04004

Preparation: Closed Vessel Nitric Oven Digestion

Lab Sample ID	Analyte	Found	MRL	Units	Batch	Method	Notes
F301262-BLK1	Sodium	9	20	µg/L	F301262	EPA 200.8	U
F301262-BLK1	Nickel	0.04	0.10	µg/L	F301262	EPA 200.8	U
F301262-BLK1	Copper	0.03	0.10	µg/L	F301262	EPA 200.8	U
F301262-BLK1	Molybdenum	0.017	0.060	µg/L	F301262	EPA 200.8	U
F301262-BLK1	Lead	0.001	0.040	µg/L	F301262	EPA 200.8	U

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PREPARATION BLANKS

Instrument: Hg2600-2

Sequence: 3B05007

Preparation: BrCl Oxidation

Lab Sample ID	Analyte	Found	MRL	Units	Batch	Method	Notes
F302012-BLK1	Mercury	0.007	0.50	ng/L	F302012	EPA 1631E	U
F302012-BLK2	Mercury	-0.01	0.50	ng/L	F302012	EPA 1631E	U
F302012-BLK3	Mercury	-0.003	0.50	ng/L	F302012	EPA 1631E	U
F302012-BLK4	Mercury	0.02	0.50	ng/L	F302012	EPA 1631E	U, QB-04

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PREPARATION BLANKS

Instrument: ICPMS-3

Sequence: 3B08012

Preparation: Closed Vessel Nitric Oven Digestion

Lab Sample ID	Analyte	Found	MRL	Units	Batch	Method	Notes
F302022-BLK1	Arsenic	0.05	0.15	µg/L	F302022	EPA 200.8	U
F302022-BLK1	Cadmium	0.0003	0.020	µg/L	F302022	EPA 200.8	U

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PREPARATION BLANKS

Instrument: ICPMS-6

Sequence: 3B11007

Preparation: Closed Vessel Nitric Oven Digestion

Lab Sample ID	Analyte	Found	MRL	Units	Batch	Method	Notes
F302022-BLK2	Silver	-0.0008	0.020	µg/L	F302022	EPA 200.8	U

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PREPARATION BLANKS

Instrument: ICPMS-6

Sequence: 3B12002

Preparation: Closed Vessel Nitric Oven Digestion

Lab Sample ID	Analyte	Found	MRL	Units	Batch	Method	Notes
F302063-BLK1	Selenium	0.11	0.60	µg/L	F302063	EPA 200.8	U

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Notes and Definitions

- U Analyte included in the analysis, but not detected
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD.
- QM-02 The MS and/or MSD recoveries outside acceptance limits, due to spike concentration less than 1 times the sample concentration. The batch was accepted based on LCS and LCSD recoveries within control limits and, when analysis permits, acceptable AS/ASD.
- QB-04 The blank was preserved to 2% BrCl rather than 1%. The control limit for blanks preserved to greater than 1% BrCl is the preservation percentage multiplied by the MRL.
- AS This MS and/or MSD is an analytical spike and/or an analytical spike duplicate.
- DET Analyte Detected
- MDL Minimum Detection Limit
- MRL Minimum Reporting Limit
- ND Analyte Not Detected at or above the reporting limit
- wet Sample results reported on a wet weight basis
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- RSD Relative Standard Deviation

Eurofins Frontier Global Sciences, Inc.

A handwritten signature in cursive script that reads "Liz Siska".

Liz Siska, Project Manager

The results in this report only apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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1301407 Final Report
02/12/2013



Paul Pepler
GZA GeoEnvironmental, Inc. (NH)
380 Harvey Road
Manchester, NH 03103



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 118261
Client Identification: PSNH-MK
Date Received: 2/7/2013

Dear Mr. Pepler:

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

- Solid samples are reported on a dry weight basis, unless otherwise noted
- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

2.14.13
Date

4
of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE



EAI ID#: 118261

Client: GZA GeoEnvironmental, Inc. (NH)

Client Designation: PSNH-MK

Temperature upon receipt (°C): 16.3

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
118261.01	Softened Stream A WW	2/7/13	2/7/13	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis. All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992



LABORATORY REPORT

EAI ID#: 118261

Client: **GZA GeoEnvironmental, Inc. (NH)**

Client Designation: **PSNH-MK**

Sample ID: Softened Stream A
WW

Lab Sample ID: 118261.01

Matrix: aqueous

Date Sampled: 2/7/13

Date Received: 2/7/13

BOD < 6

Units	Analysis		Method	Analyst
	Date	Time		
mg/L	2/08/13	12:05	5210B	SCW



QC REPORT

EAI ID#: 118261

Client: GZA GeoEnvironmental, Inc. (NH)

Client Designation: PSNH-MK

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
BOD	< 6	390 (98 %R)	410 (103 %R) (5 RPD)	mg/L	2/8/13	84 - 115	20	5210B

Samples were analyzed within holding times unless noted on the sample results page.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
Exceptions to the above statements are flagged or noted above or on the QC Narrative page.
*/! Flagged analyte recoveries deviated from the QA/QC limits.

