FINAL



SHEPLEY'S HILL LANDFILL SUPPLEMENTAL GROUNDWATER AND LANDFILL CAP ASSESSMENT FOR LONG-TERM MONITORING AND MAINTENANCE – ADDENDUM REPORT

SHEPLEY'S HILL LANDFILL

FORMER FORT DEVENS ARMY INSTALLATION, DEVENS, MA

AUGUST 2011

BOOK 3 OF 4

Prepared for:
US Army Corp of Engineers
New England District
Concord, Massachusetts

Prepared by:
Sovereign Consulting Inc.
Contract No.: W912WJ-10-D-0003
Delivery Order: 0002





ANALYTICAL REPORT

Lab Number:

L1008426

Client:

Sovereign Consulting

905B South Main Street Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

06/24/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SHL TASK 0002 Lab Number: L1008426

Project Number: AC001 Report Date: 06/24/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008426-01	GP-10-02-024-F	DEVENS, MA	06/07/10 09:50
L1008426-02	GP-10-02-034-F	DEVENS, MA	06/07/10 10:42
L1008426-03	GP-10-02-044-F	DEVENS, MA	06/07/10 11:35
L1008426-04	GP-10-02-054-F	DEVENS, MA	06/07/10 12:27
L1008426-05	GDUP-060710-F	DEVENS, MA	06/07/10 10:42
L1008426-06	RB-060710-F	DEVENS, MA	06/07/10 14:00
L1008426-07	GP-10-02-064-F	DEVENS, MA	06/07/10 13:08
L1008426-08	GP-10-02-074-F	DEVENS, MA	06/07/10 15:05

Project Name: Project Number: SHL TASK 0002

AC001

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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The results for Dissolved Arsenic were issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Metals

L1008426-02 through -05, -07 and -08 have elevated detection limits for all analytes due to the dilutions

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AC001

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06/24/10

Case Narrative (continued)

required by the high concentrations of target analytes.

The WG416714-3/-4 MS/MSD recoveries for Calcium (142%/132%) and Sodium (MS at 125%), performed on L1008426-01, are invalid because the sample concentration is greater than four times the spike amount added.

Chloride

L1008426-01 through -05, -07 and -08 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

Alkalinity, Total

The WG417123-3 MS recovery (82%), performed on L1008426-01, is below the acceptance criteria. This has been attributed to matrix interference.

Sulfate

The WG418326-1 Method Blank, associated with L1008426-01 through -05, -07 and -08, has a concentration greater than one half the reporting limit for Sulfate. The results in samples L1008426-01 through -05, -07 and -08 are greater than 10x the blank concentration; therefore, no qualification of results was performed.

The WG418326-3/-4 MS/MSD RPD (22%), performed on L1008426-01, is above the acceptance criteria; however, the individual MS/MSD recoveries are within method limits.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

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Date: 06/24/10

METALS



Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-01

Client ID:

GP-10-02-024-F

Sample Location: Matrix:

DEVENS, MA

Water

Date Collected:

06/07/10 09:50

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Calcium, Dissolved	90800		ug/l	100	12.6	1	06/08/10 10:15	5 06/09/10 09:05	EPA 3005A	1,6020A	вм
Iron, Dissolved	1130		ug/l	50.0	8.41	1	06/08/10 10:1	5 06/09/10 09:05	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	13100		ug/I	100	4.10	1	06/08/10 10:1	5 06/09/10 09:05	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	560		ug/l	1.00	0.136	1	06/08/10 10:1	5 06/09/10 09:05	EPA 3005A	1,6020A	вм
Potassium, Dissolved	3760		ug/l	100	18.2	1	06/08/10 10:1	5 06/09/10 09:05	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	45400		ug/l	100	18.2	4	06/08/10 10:1	5 06/09/10 09:05	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-02

Client ID:

GP-10-02-034-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 10:42

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestborou	ugh Lab									
Calcium, Dissolved	105000		ug/l	200	25.3	2	06/08/10 10:1	5 06/09/10 09:29	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1560		ug/I	100	16.8	2	06/08/10 10:1	5 06/09/10 09:29	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	15500		ug/l	200	8.20	2	06/08/10 10:1	5 06/09/10 09:29	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	1440		ug/l	2.00	0.272	2	06/08/10 10:1	5 06/09/10 09:29	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	4320		ug/l	200	36.3	2	06/08/10 10:1:	5 06/09/10 09:29	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	48800		ug/l	200	36.4	2	06/08/10 10:1	5 06/09/10 09:29	EPA 3005A	1,6020A	ВМ
			-				9 40 4 40 14 14 14 1				

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number:

AC001

Report Date:

06/24/10

Lab ID:

SAMPLE RESULTS

Date Collected:

06/07/10 11:35

Client ID: Sample Location: L1008426-03 GP-10-02-044-F DEVENS, MA

06/07/10

Matrix:

Water

Date Received: Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Calcium, Dissolved	113000		ug/l	200	25.3	2	06/08/10 10:1	5 06/09/10 09:35	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	2140		ug/l	100	16.8	2	06/08/10 10:1	5 06/09/10 09:35	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	15900		ug/l	200	8.20	2	06/08/10 10:1	5 06/09/10 09:35	EPA 3005A	1,6020A	вм
Manganese, Dissolved	2060		ug/l	2.00	0.272	2	06/08/10 10:1	5 06/09/10 09:35	EPA 3005A	1,6020A	вм
Potassium, Dissolved	4640		ug/l	200	36.3	2	06/08/10 10:1	5 06/09/10 09:35	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	58700		ug/l	200	36.4	2	06/08/10 10:1	5 06/09/10 09:35	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008426

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008426-04

Sample Location:

GP-10-02-054-F DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 12:27

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Calcium, Dissolved	107000		ug/l	200	25.3	2	06/08/10 10:1	5 06/09/10 09:41	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	2150		ug/l	100	16.8	2	06/08/10 10:1	5 06/09/10 09:41	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	14800		ug/l	200	8.20	2	06/08/10 10:1	5 06/09/10 09:41	EPA 3005A	1,6020A	вм
Manganese, Dissolved	2200		ug/l	2.00	0.272	2	06/08/10 10:1	5 06/09/10 09:41	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	4170		ug/l	200	36.3	2	06/08/10 10:1	5 06/09/10 09:41	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	52900		ug/l	200	36.4	2	06/08/10 10:1	5 06/09/10 09:41	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Lab Number:

L1008426

Project Number:

Sample Location:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008426-05 GDUP-060710-F

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 10:42

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Calcium, Dissolved	102000		ug/l	200	25.3	2	06/08/10 10:1	5 06/09/10 09:47	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1520		ug/l	100	16.8	2	06/08/10 10:1	5 06/09/10 09:47	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	14800		ug/l	200	8.20	2	06/08/10 10:1	5 06/09/10 09:47	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	1380		ug/l	2.00	0.272	2	06/08/10 10:1	5 06/09/10 09:47	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	4060		ug/I	200	36.3	2	06/08/10 10:1	5 06/09/10 09:47	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	46300		ug/l	200	36.4	2	06/08/10 10:1	5 06/09/10 09:47	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008426

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008426-06

Sample Location:

RB-060710-F DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 14:00

Date Received:

06/07/10

Field

tive

ld Prep:	See Narrat

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Calcium, Dissolved	30.7	J	ug/l	100	12.6	1	06/08/10 10:1	5 06/09/10 10:05	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	10.3	J	ug/I	50.0	8.41	1	06/08/10 10:1	5 06/09/10 10:05	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	20.6	J	ug/l	100	4.10	1	06/08/10 10:1	5 06/09/10 10:05	EPA 3005A	1,6020A	вм
Manganese, Dissolved	0.27	J	ug/I	1.00	0.136	1	06/08/10 10:1	5 06/09/10 10:05	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/08/10 10:1	5 06/09/10 10:05	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	ND		ug/l	100	18.2	1	06/08/10 10:1	5 06/09/10 10:05	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number:

Sample Location:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-07

Client ID:

GP-10-02-064-F

Matrix:

DEVENS, MA

Water

Date Collected:

06/07/10 13:08

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	Units	RL .	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Calcium, Dissolved	110000		ug/l	200	25.3	2	06/08/10 10:1:	5 06/09/10 10:11	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	3500		ug/l	100	16.8	2	06/08/10 10:1	5 06/09/10 10:11	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	15000		ug/l	200	8.20	2	06/08/10 10:1	5 06/09/10 10:11	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	1990		ug/l	2.00	0.272	2	06/08/10 10:1	5 06/09/10 10:11	EPA 3005A	1,6020A	вм
Potassium, Dissolved	4580		ug/l	200	36.3	2	06/08/10 10:1	5 06/09/10 10:11	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	83500		ug/l	200	36.4	2	06/08/10 10:1	5 06/09/10 10:11	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1008426

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008426-08

Sample Location:

GP-10-02-074-F DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 15:05

Date Received:

06/07/10

Field Prep:

See Narrative

Prep Dilution Date Date **Analytical** Method Prepared Method Factor Analyzed Qualifier Parameter Result Units RL MDL Analyst Dissolved Metals - Westborough Lab Calcium, Dissolved 252000 ug/l 400 50.6 4 06/08/10 10:15 06/09/10 10:17 EPA 3005A 1,6020A BM 1,6020A Iron, Dissolved 4010 ug/l 200 33.6 4 06/08/10 10:15 06/09/10 10:17 EPA 3005A BM 1,6020A Magnesium, Dissolved 34300 400 16.4 4 06/08/10 10:15 06/09/10 10:17 EPA 3005A BM ug/l 1,6020A Manganese, Dissolved 2910 ug/l 4,00 0.544 4 06/08/10 10:15 06/09/10 10:17 EPA 3005A BM 72.6 1,6020A Potassium, Dissolved 7680 ug/l 400 4 06/08/10 10:15 06/09/10 10:17 EPA 3005A BM Sodium, Dissolved 196000 ug/l 400 72.8 4 06/08/10 10:15 06/09/10 10:17 EPA 3005A 1,6020A BM

Project Name: SHL TASK 0002 Lab Number:

L1008426

06/24/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Wes	tborough Lat	for same	ole(s): 01	-08 Ba	tch: W	/G416714-1				
Calcium, Dissolved	36.1	J	ug/l	100	12.6	1	06/08/10 10:15	06/08/10 22:31	1,6020A	вм
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/08/10 10:15	06/08/10 22:31	1,6020A	ВМ
Magnesium, Dissolved	22.4	J	ug/l	100	4.10	1	06/08/10 10:15	06/08/10 22:31	1,6020A	вм
Manganese, Dissolved	0.19	J	ug/l	1.00	0.136	1	06/08/10 10:15	06/08/10 22:31	1,6020A	ВМ
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/08/10 10:15	06/08/10 22:31	1,6020A	ВМ
Sodium, Dissolved	18.4	J	ug/l	100	18.2	1	06/08/10 10:15	06/08/10 22:3	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

h Quality Control Lab Number:

Report Date:

L1008426 06/24/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Quai	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01-08	Batch: WG4167	14-2				
Calcium, Dissolved	100				80-120	14		
Iron, Dissolved	1111		- 6		80-120			
Magnesium, Dissolved	101				80-120	1.2		
Manganese, Dissolved	102				80-120			
Potassium, Dissolved	100		4.		80-120	0.0		
Sodium, Dissolved	108				80-120	*		

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008426

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westbor 10-02-024-F	ough Lab Assoc	iated sample	e(s): 01-08	QC Batch ID	: WG416	714-3 WG	6416714-4 Q	C Samp	le: L100842	26-01	Client	ID: GP
Calcium, Dissolved	90800	10000	105000	142		104000	132		80-120	7		20
Iron, Dissolved	1130	1000	2220	109		2200	107		80-120	2		20
Magnesium, Dissolved	13100	10000	23300	102		23400	103		80-120	1		20
Manganese, Dissolved	560	500	1100	108		1110	110		80-120	2		20
Potassium, Dissolved	3760	10000	13300	95		13300	95		80-120	0		20
Sodium, Dissolved	45400	10000	57900	125		57100	117		80-120	7		20

INORGANICS & MISCELLANEOUS

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-01

Client ID: Sample Location:

GP-10-02-024-F DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 09:50

Date Received:

06/07/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - West	tborough Lab)								
Alkalinity, Total	200		mg CaCO3/L	2.0	NA	1	+	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.089		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:18	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:47	30,4500NO2-B	DD
Chemical Oxygen Demand	18	J	mg/l	20	7.0	1	3	06/10/10 04:51	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	140		mg/l	2.5	0.33	5	4	06/08/10 20:15	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1		06/08/10 18:51	44,300.0	ΛU
Sulfate	23		mg/l	1.0	0.12	1		06/16/10 13:17	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-02 GP-10-02-034-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 10:42

Date Received:

06/07/10

See Narrative Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lat)								
Alkalinity, Total	190		mg CaCO3/L	2.0	NA	1	2	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.109		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:20	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/07/10 20:48	30,4500NO2-B	DD
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	39	06/10/10 04:51	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	150	2.	mg/I	2.5	0.33	5	4	06/08/10 22:03	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	40	06/08/10 19:15	44,300.0	AU
Sulfate	28		mg/l	1.0	0.12	1		06/16/10 13:29	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008426

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-03

Client ID:

GP-10-02-044-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/07/10 11:35

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	200		mg CaCO3/L	2.0	NA.	1	-	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.293		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:21	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	*	06/07/10 20:48	30,4500NO2-B	DD
Chemical Oxygen Demand	13	J	mg/l	20	7.0	1	*	06/10/10 04:52	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	130		mg/l	2.5	0.33	5		06/08/10 22:15	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/08/10 19:27	44,300.0	AU
Sulfate	18		mg/l	1.0	0.12	1	14.	06/16/10 13:41	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-04

Field Prep:

06/07/10 12:27

Client ID: Sample Location: GP-10-02-054-F DEVENS, MA

Date Collected: Date Received:

06/07/10 See Narrative

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	ri e								
Alkalinity, Total	230		mg CaCO3/L	2.0	NA	1	2	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.268		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:25	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/07/10 20:48	30,4500NO2-B	DD
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	-	06/10/10 04:52	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	110		mg/l	2.5	0.33	5		06/08/10 22:27	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1		06/08/10 19:39	44,300.0	AU
Sulfate	16		mg/l	1.0	0.12	1	10	06/16/10 13:53	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-05

Client ID:

GDUP-060710-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/07/10 10:42

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab								
Alkalinity, Total	190	mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.092	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:26	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	-	06/07/10 20:49	30,4500NO2-B	DD
Chemical Oxygen Demand	27	mg/l	20	7.0	1	*	06/10/10 04:52	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough Lab							
Chloride	150	mg/l	2.5	0.33	5		06/08/10 23:27	44,300.0	AU
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	+	06/08/10 19:51	44,300.0	AU
Sulfate	29	mg/l	1.0	0.12	1	3	06/16/10 14:05	44,300 0	AU

Project Name: SHL TASK 0002 Lab Number:

L1008426

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID:

L1008426-07

Client ID:

GP-10-02-064-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 13:08

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
eneral Chemistry - W	estborough Lab										
kalinity, Total	270	r	ng CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD	
trogen, Ammonia	0.196		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:26	30,4500NH3-BH	AT	

General Chemistry - We	stborough Lab								
Alkalinity, Total	270	mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.196	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:26	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	-	06/07/10 20:49	30,4500NO2-B	DD
Chemical Oxygen Demand	20	mg/I	20	7.0	1	*1	06/10/10 04:53	44,410.4	ВН
Anions by Ion Chromato	graphy - Westbe	orough Lab							
Chloride	160	mg/l	2.5	0.33	5	6	06/08/10 23:39	44,300.0	AU
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	4.	06/08/10 20:03	44,300.0	AU
Sulfate	23	mg/l	1.0	0.12	1	-	06/16/10 11:41	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008426

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008426-08 GP-10-02-074-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 15:05

Date Received:

06/07/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	140)	mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.178		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:27	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	4	06/07/10 20:49	30,4500NO2-B	DD
Chemical Oxygen Demand	29		mg/l	20	7.0	1		06/10/10 04:53	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	780		mg/l	25	3.3	50	4	06/09/10 01:03	44,300.0	AU
Nitrogen, Nitrate	0 026	3	mg/l	0.05	0.01	1	4	06/08/10 20:51	44,300.0	AU
Sulfate	31		ma/l	1.0	0.12	1		06/16/10 11:29	44 300 0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008426 06/24/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab	for sam	ple(s):	01-05,07-08	Batch	: WG416	624-2			
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	9	06/07/10 20:46	30,4500NO2-B	DD
Anions by Ion Chrom	atography - West	orough	Lab for	sample(s):	01-05,0	7-08 Ba	tch: WG4168	64-1		
Chloride	ND		mg/l	0.50	0.07	1		06/08/10 18:15	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	÷	06/08/10 18:15	44,300.0	AU
General Chemistry -	Westborough Lab	for sam	ple(s):	01-05,07-08	Batch	: WG417	001-1			
Nitrogen, Ammonia	ND		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:03	30,4500NH3-BH	TA H
General Chemistry -	Westborough Lab	for sam	ple(s):	01-05,07-08	Batch	: WG417	053-1			
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	4	06/10/10 04:50	44,410.4	ВН
General Chemistry -	Westborough Lab	for sam	ple(s):	01-05,07-08	Batch	: WG417	123-1			
Alkalinity, Total	ND		mg CaCO	3/L 2.0	NA	1		06/09/10 09:07	30,2320B	SD
Anions by Ion Chrom	atography - Westh	orough	Lab for	sample(s);	01-05,0	7-08 Ba	tch: WG4183	26-1		
ulfate	0.71	J	mg/l	1.0	0.12	1	,	06/16/10 04:40	44,300.0	AU

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

3 4

4

0 = 3

Project Number: AC001

Lab Number:

L1008426

Report Date:

Parameter	LCS %Recovery		LCSD ecovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	01-05,07-08	Batch:	WG416624-1				
Nitrogen, Nitrite	100 }		+		90-110			20
Anions by Ion Chromatography - Westb	orough Lab Associated	d sample(s):	01-05,07-0	08 Batch: V	VG416864-2			
Chloride	100				90-110	- 2		
Nitrogen, Nitrate	100		+-		90-110			
General Chemistry - Westborough Lab	Associated sample(s):	01-05,07-08	Batch:	WG417001-2				
Nitrogen, Ammonia	100		•		80-120	1		20
General Chemistry - Westborough Lab	Associated sample(s):	01-05,07-08	Batch:	WG417053-2				
Chemical Oxygen Demand	98		3		95-105	D÷		
General Chemistry - Westborough Lab	Associated sample(s):	01-05,07-08	Batch:	WG417123-2				•
Alkalinity, Total	103		Ť		80-115	-		4
Anions by Ion Chromatography - Westb	orough Lab Associated	d sample(s):	01-05,07-0	8 Batch: W	/G418326-2			
Sulfate	100				90-110			

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008426

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD Q	RPD ual Limits
General Chemistry - Westbord 024-F	ough Lab Asso	ociated sampl	e(s): 01-0	5,07-08 QC E	Batch ID	: WG41662	4-3 QC Sar	nple: L	1008426-01	Client II	D: GP-10-02-
Nitrogen, Nitrite	ND	0.1	0.10	100		-	*		85-115	-	20
Anions by Ion Chromatograph Client ID: GP-10-02-024-F	y - Westborou	gh Lab Asso	ciated san	nple(s): 01-05,0	7-08	QC Batch II	D: WG416864-	3 WG	416864-4 C	QC Sampl	e: L1008426-0
Chloride	140	20	150	73		150	62		40-151	16	18
Nitrogen, Nitrate	ND	0.4	0.37	92		0.40	100		80-122	8	15
General Chemistry - Westboro 024-F	ough Lab Asso	ociated sampl	e(s): 01-0	5,07-08 QC E	Batch ID	: WG41700	1-3 QC San	nple: L'	1008426-01	Client II	D: GP-10-02-
Nitrogen, Ammonia	0.089	4	3.90	95		3	1		80-120	2	20
General Chemistry - Westboro 024-F	ough Lab Asso	ciated sampl	e(s): 01-0	5,07-08 QC E	Batch ID	: WG41705	3-4 QC San	nple: L'	1008426-01	Client II	D: GP-10-02-
Chemical Oxygen Demand	ND	238	250	104		2			80-120	-3	20
General Chemistry - Westboro 024-F	ugh Lab Asso	ciated sampl	e(s): 01-0	5,07-08 QC E	Batch ID	: WG41712	3-3 QC San	nple: L	1008426-01	Client II	D: GP-10-02-
Alkalinity, Total	200	100 .	280	82	Q	+	+		86-116	1	4
Anions by lon Chromatography Client ID: GP-10-02-024-F	y - Westborou	gh Lab Asso	ciated san	nple(s): 01-05,0	7-08	QC Batch ID	D: WG418326-	3 WG	418326-4 C	QC Sampl	e: L1008426-0
Sulfate	23	8	29	80		31	100		60-140	22	Q 20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008426

Report Date:

Parameter	Nati	ve Sample	Dup	licate Sample	Units	RPD	Qual RP	D Limits
General Chemistry - Westborough Lab Associated 024-F	sample(s):	01-05,07-08	QC Batch	ID: WG416624	-4 QC Sample	: L1008426-	01 Client ID:	GP-10-02-
Nitrogen, Nitrite		ND		ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab GP-10-02-024-F	Associated	sample(s):	01-05,07-08	QC Batch ID:	WG416864-5	QC Sample:	L1008426-0	1 Client ID:
Nitrogen, Nitrate	45	ND		ND	mg/l	NC		15
Anions by Ion Chromatography - Westborough Lab GP-10-02-024-F	Associated	sample(s);	01-05,07-08	QC Batch ID:	WG416864-5	QC Sample:	L1008426-0	1 Client ID:
Chloride		140		130	mg/l	7		18
General Chemistry - Westborough Lab Associated 924-F	sample(s):	01-05,07-08	QC Batch	ID: WG417001	4 QC Sample	: L1008426-	01 Client ID:	GP-10-02-
Nitrogen, Ammonia	(0)	0.089		0.0625J	mg/l	NC		20
General Chemistry - Westborough Lab Associated 924-F	sample(s):	01-05,07-08	QC Batch	ID: WG417053-	-3 QC Sample	L1008426-0	01 Client ID:	GP-10-02-
Chemical Oxygen Demand		18J		20	mg/l	NC		20
General Chemistry - Westborough Lab Associated : 024-F	sample(s):	01-05,07-08	QC Batch	ID: WG417123-	4 QC Sample:	L1008426-0	01 Client ID:	GP-10-02-
Alkalinity, Total	-	200		200	mg CaCO3/L	0		4
Anions by Ion Chromatography - Westborough Lab GP-10-02-024-F	Associated	sample(s):	01-05,07-08	QC Batch ID:	WG418326-5	QC Sample:	L1008426-01	Client ID:
Sulfate	+ .	23		26	mg/l	12		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426 Report Date: 06/24/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A

Absent

В

Absent

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008426-01A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
L1008426-01B	Plastic 250ml unpreserved	A	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-01C	Plastic 500ml H2SO4 preserved	Α	<2	3	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-01D	Plastic 500ml unpreserved	Α	7	3	Y	Absent	SO4-300(28),CL-300(28),NO3- 300(2)
L1008426-01E	Plastic 250ml unpreserved	Α	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-01F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
L1008426-01G	Plastic 250ml unpreserved	Α	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-01H	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-01I	Plastic 500ml unpreserved	Α	7	3	Y	Absent	SO4-300(28),CL-300(28),NO3- 300(2)
L1008426-01J	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-02A	Plastic 500ml HNO3 preserved	-A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
L1008426-02B	Plastic 250ml unpreserved	A	7	3	Y	Absent	NO2-4500NO2(2)
L1008426-02C	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	COD-410(28),NH3-4500(28)
L1008426-02D	Plastic 500ml unpreserved	Α	7	3	Y	Absent	SO4-300(28),CL-300(28),NO3- 300(2)
L1008426-02E	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1008426-03A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426 Report Date: 06/24/10

Container Info	ormation			Temp				
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal		Analysis(*)
L1008426-03B	Plastic 250ml unpreserved	A	7	3	Y	Absent		NO2-4500NO2(2)
L1008426-03C	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	7	COD-410(28),NH3-4500(28)
L1008426-03D	Plastic 500ml unpreserved	A	7	3	Y	Absent		SO4-300(28),CL-300(28),NO3-300(2)
L1008426-03E	Plastic 250ml unpreserved	Α	N/A	3	Y	Absent		ALK-T-2320(14)
L1008426-04A	Plastic 500ml HNO3 preserved	В	<2	2.2	Y	Absent		DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
L1008426-04B	Plastic 250ml unpreserved	Α	7	3	Y	Absent		NO2-4500NO2(2)
L1008426-04C	Plastic 500ml H2SO4 preserved	В	<2	2,2	Y	Absent		COD-410(28),NH3-4500(28)
L1008426-04D	Plastic 500ml unpreserved	В	7	2,2	Y	Absent		SO4-300(28),CL-300(28),NO3- 300(2)
L1008426-04E	Plastic 250ml unpreserved	Α	N/A	3	Y	Absent		ALK-T-2320(14)
L1008426-05A	Plastic 500ml HNO3 preserved	В	<2	2.2	Y	Absent		DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
L1008426-05B	Plastic 250ml unpreserved	В	7	2.2	Y	Absent		NO2-4500NO2(2)
L1008426-05C	Plastic 500ml H2SO4 preserved	В	<2	22	Y	Absent		COD-410(28),NH3-4500(28)
L1008426-05D	Plastic 500ml unpreserved	В	7	2,2	Y	Absent		SO4-300(28),CL-300(28),NO3- 300(2)
L1008426-05E	Plastic 250ml unpreserved	В	N/A	2.2	Y	Absent		ALK-T-2320(14)
L1008426-06A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent		DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
L1008426-07A	Plastic 500ml HNO3 preserved	В	<2	2.2	Υ	Absent		DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
. L1008426-07B	Plastic 250ml unpreserved	В	7	- 2.2	- Y	Absent		NO2-4500NO2(2)
L1008426-07C	Plastic 500ml H2SO4 preserved	В	<2	2.2	Y	Absent		COD-410(28),NH3-4500(28)
L1008426-07D	Plastic 500ml unpreserved	В	7	2.2	Y	Absent		SO4-300(28),CL-300(28),NO3- 300(2)
L1008426-07E	Plastic 250ml unpreserved	В	N/A	2.2	Y	Absent		ALK-T-2320(14)
L1008426-08A	Plastic 500ml HNO3 preserved	В	<2	2.2	Y	Absent		DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-K-6020S(180)
L1008426-08B	Plastic 250ml unpreserved	В	7	2.2	Y	Absent		NO2-4500NO2(2)
L1008426-08C	Plastic 500ml H2SO4 preserved	В	<2	2.2	Y	Absent		COD-410(28),NH3-4500(28)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008426 Report Date: 06/24/10

Container Information				Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008426-08D	Plastic 500ml unpreserved	В	7	2.2	Y	Absent	SO4-300(28),CL-300(28),NO3-300(2)
L1008426-08E	Plastic 250ml unpreserved	В	N/A	2.2	Y	Absent	ALK-T-2320(14)

Project Name:

SHL TASK 0002

Lab Number:

L1008426

Project Number:

AC001

Report Date:

06/24/10

GLOSSARY

Acronyms

EPA Environmental Protection Agency

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

N Not Ignitable.

RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum

Data Qualifiers

- Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument. \mathbf{E}
- · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of H sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- RE · Analytical results are from sample re-extraction.

Report Format: DU Report with "J" Qualifiers

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1008426

 Project Number:
 AC001
 Report Date:
 06/24/10

Data Qualifiers

 Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008426

Report Date:

06/24/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ALPHA

Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate, Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-

chloropropane (DBCP), Ethylene Dibromide (EDB).) Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonía, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.) Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1 Organic Parameters; 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ, SUB, SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for

SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorqanic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1,

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev,7,)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B

Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorqanic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (<u>Inorganic Parameters</u>: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. <u>Organic Parameters</u>: EPA

8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited*. *Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2 D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



ANALYTICAL REPORT

Lab Number:

L1008513

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

06/26/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1008513

 Project Number:
 AC001
 Report Date:
 06/26/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008513-01	GP-10-02-084-F	DEVENS, MA	06/07/10 18:12
L1008513-02	GP-10-02-094-F	DEVENS, MA	06/08/10 09:25
L1008513-03	GP-10-02-102-F	DEVENS, MA	06/08/10 10:10
L1008513-04	RB-060810-U	DEVENS, MA	06/08/10 10:30
L1008513-05	GP-10-04-014-F	DEVENS, MA	06/08/10 12:40
L1008513-06	GP-10-04-024-F	DEVENS, MA	06/08/10 14:00
L1008513-07	GP-10-04-034-F	DEVENS, MA	06/08/10 14:50
L1008513-08	GP-10-04-044-F	DEVENS, MA	06/08/10 15:10
L1008513-09	GDUP-060810-F	DEVENS, MA	06/08/10 14:00

Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1008513

Report Date:

06/26/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Dissolved Metals

L1008513-01 through -03 have elevated detection limit for all analytes due to the dilution required by the high concentrations of target analytes. The requested reporting limit for Arsenic was not achieved on L1008513-02.

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008513

Report Date:

06/26/10

Case Narrative (continued)

Chloride

L1008513-01, -02 and -03 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG418933-4 MSD recovery (38%), performed on L1008513-05, is below the acceptance criteria; however, the associated LCS recovery was within criteria. No further action was taken.

The WG418933-5 Laboratory Duplicate RPD (40%), performed on L1008513-05, is above the acceptance criteria.

Nitrate

L1008513-08 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

WG417902: The MS, MSD and Duplicate associated with this batch were analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Michelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 06/26/10

METALS

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-01

Client ID:

GP-10-02-084-F

Sample Location: Matrix:

DEVENS, MA

Water

Date Collected:

06/07/10 18:12

Date Received:

06/08/10

Field P

See Narrativ
See Mariany

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	4.64		ug/l	2.00	0.452	4	06/09/10 09:4	5 06/10/10 22:46	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	288000		ug/l	400	50.6	4	06/09/10 09:4	5 06/10/10 22:46	EPA 3005A	1,6020A	вм
Iron, Dissolved	19600		ug/l	200	33.6	4	06/09/10 09:4	5 06/10/10 22:46	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	38700		ug/l	400	16.4	4	06/09/10 09:4	5 06/10/10 22:46	EPA 3005A	1,6020A	вм
Manganese, Dissolved	2680		ug/l	4.00	0.544	4	06/09/10 09:4	5 06/10/10 22:46	EPA 3005A	1,6020A	вм
Potassium, Dissolved	10500		ug/l	400	72.6	4	06/09/10 09:4	5 06/10/10 22:46	EPA 3005A	1,6020A	вм
Sodium, Dissolved	236000		ug/l	400	72.8	4	06/09/10 09:4	5 06/10/10 22:46	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-02

Client ID:

GP-10-02-094-F DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 09:25

Date Received:

06/08/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.61	J	ug/l	2.00	0.452	4	06/09/10 09:4	5 06/10/10 22:52	EPA 3005A	1,6020A	вм
Calcium, Dissolved	229000		ug/l	400	50.6	4	06/09/10 09:45	5 06/10/10 22:52	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	4640		ug/l	200	33.6	4	06/09/10 09:4	5 06/10/10 22:52	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	29300		ug/l	400	16 4	4	06/09/10 09:4	5 06/10/10 22:52	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	3100		ug/l	4.00	0.544	4	06/09/10 09:4	5 06/10/10 22:52	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	8450		ug/l	400	72.6	4	06/09/10 09:4	5 06/10/10 22:52	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	302000		ug/l	400	72.8	4	06/09/10 09:4	5 06/10/10 22:52	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

AC001

Lab Number:

L1008513

Project Number:

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-03

Client ID:

Sodium, Dissolved

GP-10-02-102-F DEVENS, MA

Sample Location: Matrix:

Water

155000

ug/l

400

Date Collected:

06/08/10 10:10

Date Received:

06/09/10 09:45 06/10/10 22:58 EPA 3005A

06/08/10

Field Prep:

See Narrative

1,6020A

BM

Parameter	Resu	It Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved M	etals - Westbo	rough Lab									
Arsenic, Dissol	ved 8.68		ug/I	2.00	0.452	4	06/09/10 09:4	5 06/10/10 22:58	EPA 3005A	1,6020A	вм
Calcium, Disso	lved 24900	00	ug/I	400	50 6	4	06/09/10 09:4	5 06/10/10 22:58	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	25300)	ug/l	200	33.6	4	06/09/10 09:4	5 06/10/10 22:58	EPA 3005A	1,6020A	вм
Magnesium, Di	issolved 3460	0	ug/l	400	16.4	4	06/09/10 09:4	5 06/10/10 22:58	EPA 3005A	1,6020A	ВМ
Manganese, D	issolved 1270		ug/l	4.00	0.544	4	06/09/10 09:4	5 06/10/10 22:58	EPA 3005A	1,6020A	ВМ
Potassium, Dis	ssolved 1110	D	ug/l	400	72.6	4	06/09/10 09:4	5 06/10/10 22:58	EPA 3005A	1,6020A	вм

72.8

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008513

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008513-04 RB-060810-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

Date Received:

06/08/10 10:30

06/08/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	ND		ug/l	0.500	0,113	1	06/09/10 09:45	5 06/10/10 23:05	EPA 3005A	1,6020A	вм
Calcium, Dissolved	24.4	J	ug/l	100	12.6	1	06/09/10 09:45	5 06/10/10 23:05	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	10.2	J	ug/l	50.0	8.41	1	06/09/10 09:4	5 06/10/10 23:05	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/09/10 09:4	5 06/10/10 23:05	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	0.25	J	ug/l	1.00	0.136	1	06/09/10 09:4	5 06/10/10 23:05	EPA 3005A	1,6020A	вм
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/09/10 09:4	5 06/10/10 23:05	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	ND		ug/l	100	18.2	1.	06/09/10 09:4	5 06/10/10 23:05	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

Lab ID:

SAMPLE RESULTS

Date Collected:

06/08/10 12:40

Client ID:

L1008513-05 GP-10-04-014-F DEVENS, MA

Date Received:

06/08/10

Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.18	J	ug/l	0.500	0.113	1	06/09/10 09:45	5 06/10/10 23:17	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	2200		ug/l	100	12.6	1	06/09/10 09:4	5 06/10/10 23:17	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1170		ug/l	50.0	8.41	1	06/09/10 09:4	5 06/10/10 23:17	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	316		ug/l	100	4.10	1	06/09/10 09:4	5 06/10/10 23:17	EPA 3005A	1,6020A	вм
Manganese, Dissolved	210		ug/l	1.00	0.136	1	06/09/10 09:4	5 06/10/10 23:17	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	422		ug/l	100	18.2	1	06/09/10 09:4	5 06/10/10 23:17	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	3460		ug/l	100	18.2	1	06/09/10 09:4	5 06/10/10 23:17	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number:

AC001

Report Date:

06/26/10

Lab ID:

SAMPLE RESULTS

Date Collected:

06/08/10 14:00

Client ID:

L1008513-06 GP-10-04-024-F

06/08/10

Sample Location:

DEVENS, MA

Date Received:

Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.18	J	ug/l	0.500	0.113	1	06/09/10 09:4	5 06/10/10 23:52	EPA 3005A	1,6020A	вм
Calcium, Dissolved	2100		ug/l	100	12.6	1	06/09/10 09:4	5 06/10/10 23:52	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	256		ug/l	50.0	8.41	1	06/09/10 09:4	5 06/10/10 23:52	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	218		ug/l	100	4.10	1	06/09/10 09:4	5 06/10/10 23:52	EPA 3005A	1,6020A	вм
Manganese, Dissolved	58.1		ug/l	1.00	0.136	1	06/09/10 09:4	5 06/10/10 23:52	EPA 3005A	1,6020A	вм
Potassium, Dissolved	716		ug/l	100	18.2	1	06/09/10 09:4	5 06/10/10 23:52	EPA 3005A	1,6020A	вм
Sodium, Dissolved	3080		ug/l	100	18.2	1	06/09/10 09:4	5 06/10/10 23:52	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number:

AC001

Report Date:

06/26/10

Lab ID:

L1008513-07

Client ID:

GP-10-04-034-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/08/10 14:50

Date Received:

06/08/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.18	J	ug/l	0.500	0.113	1	06/09/10 09:4	5 06/10/10 23:58	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	3670		ug/l	100	12.6	1	06/09/10 09:4	5 06/10/10 23:58	EPA 3005A	1,6020A	вм
Iron, Dissolved	438		ug/l	50.0	8.41	1	06/09/10 09:4	5 06/10/10 23:58	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	533		ug/l	100	4.10	1	06/09/10 09:4	5 06/10/10 23:58	EPA 3005A	1,6020A	вм
Manganese, Dissolved	84.4		ug/l	1.00	0.136	1	06/09/10 09:4	5 06/10/10 23:58	EPA 3005A	1,6020A	вм
Potassium, Dissolved	859		ug/l	100	18.2	1	06/09/10 09:4	5 06/10/10 23:58	EPA 3005A	1,6020A	вм
Sodium, Dissolved	4090		ug/l	100	18.2	1	06/09/10 09:4	5 06/10/10 23:58	EPA 3005A	1,6020A	ВМ

200 Stage 1

SAMPLE RESULTS

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number:

AC001

Report Date:

06/26/10

Lab ID:

L1008513-08

Client ID:

Matrix:

GP-10-04-044-F DEVENS, MA

Sample Location:

Water

Date Collected:

06/08/10 15:10

Date Received:

06/08/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.15	J	ug/l	0.500	0.113	1	06/09/10 09:4	5 06/11/10 00:04	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	19000		ug/l	100	12.6	1	06/09/10 09:4	5 06/11/10 00:04	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	629		ug/l	50.0	8,41	9	06/09/10 09:4	5 06/11/10 00:04	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	2020		ug/l	100	4.10	1	06/09/10 09:4	5 06/11/10 00:04	EPA 3005A	1,6020A	вм
Manganese, Dissolved	86.6		ug/l	1.00	0.136	1	06/09/10 09:4	5 06/11/10 00:04	EPA 3005A	1,6020A	вм
Potassium, Dissolved	1280		ug/l	100	18.2	1	06/09/10 09:4	5 06/11/10 00:04	EPA 3005A	1,6020A	вм
Sodium Dissolved	15800		uo/l	100	18.2	1	06/09/10 09:4	5.06/11/10.00:04	EPA 3005A	1.6020A	BM

SAMPLE RESULTS

Project Name: SHL TASK 0002

Lab Number:

L1008513

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008513-09 GDUP-060810-F

Date Received:

06/08/10 14:00

Sample Location:

DEVENS, MA

Date Collected:

Matrix:

Water

06/08/10 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.16	J	ug/l	0.500	0.113	1	06/09/10 09:4	5 06/11/10 00:10	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	2240		ug/l	100	12.6	1	06/09/10 09:4	5 06/1 1/10 00:10	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	199		ug/l	50.0	8.41	1	06/09/10 09:4	5 06/11/10 00:10	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	218		ug/l	100	4.10	1	06/09/10 09:4	5 06/11/10 00:10	EPA 3005A	1,6020A	вм
Manganese, Dissolved	63.0		ug/l	1.00	0.136	1	06/09/10 09:4	5 06/11/10 00:10	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	619		ug/)	100	18.2	1	06/09/10 09:4	5 06/11/10 00:10	EPA 3005A	1,6020A	BM
Sodium, Dissolved	2920		ug/l	100	18.2	1	06/09/10 09:4	5 06/11/10 00:10	EPA 3005A	1,6020A	ВМ

L1008513

Project Name: SHL TASK 0002

SK 0002 Lab Number:

Project Number: AC001 Report Date: 06/26/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - West	borough Lat	for samp	ole(s): 01	-09 Ba	tch: W	/G416998-1				
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/09/10 09:45	06/10/10 19:41	1,6020A	вм
Calcium, Dissolved	34.1	J	ug/l	100	12.6	1	06/09/10 09:45	06/10/10 19:41	1,6020A	ВМ
Iron, Dissolved	18.5	J	ug/l	50.0	8.41	1	06/09/10 09:45	06/10/10 19:41	1,6020A	ВМ
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/09/10 09:45	06/10/10 19:41	1,6020A	ВМ
Manganese, Dissolved	0.34	J	ug/l	1.00	0.136	1	06/09/10 09:45	06/10/10 19:41	1,6020A	ВМ
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 19:41	1,6020A	ВМ
Sodium, Dissolved	ND		ug/l	100	18.2	1	06/09/10 09:45	06/10/10 19:41	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008513

Report Date:

06/26/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01-09	Batch: WG416	998-2				
Arsenic, Dissolved	101				80-120			
Calcium, Dissolved	106		o.		80-120	-		
Iron, Dissolved	109				80-120	-		
Magnesium, Dissolved	102				80-120	-		
Manganese, Dissolved	110				80-120	4		
Potassium, Dissolved	102		130		80-120	5.0		
Sodium, Dissolved	108				80-120	4.		
	49							

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008513

Report Date:

06/26/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD	4 20	PD mits
Dissolved Metals - Westbor 10-04-014-F	ough Lab Assoc	iated sample	e(s): 01-09	QC Batch ID:	: WG416	8998-3 WO	G416998-4 Q	C Sample: L1008	513-05	Client ID:	GP
Arsenic, Dissolved	ND	120	111	92		115	96	80-120	4		20
Calcium, Dissolved	2200	10000	11300	91		12300	101	80-120	10		20
Iron, Dissolved	1170	1000	2070	90		2200	103	80-120	13		20
Magnesium, Dissolved	316	10000	9180	89		9810	95	80-120	7		20
Manganese, Dissolved	210	500	698	98		754	109	80-120	11		20
Potassium, Dissolved	422	10000	9600	92		10200	98	80-120	6		20
Sodium, Dissolved	3460	10000	12900	94		13800	103	80-120	9		20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002 Lab Number:

L1008513

Project Number: AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-01 GP-10-02-084-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 18:12

Date Received:

06/08/10

Field Prep:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	1							
Alkalinity, Total	170	mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.080	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:07	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	A	06/08/10 23:28	30,4500NO2-B	DD
Chemical Oxygen Demand	31	mg/l	20	7.0	1		06/10/10 04:31	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough Lab							
Chloride	880	mg/l	50	6.5	100	÷	06/09/10 14:15	44,300.0	ED
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	-	06/09/10 13:15	44,300.0	AU
Sulfate	32	mg/l	1.0	0.12	1	-	06/15/10 05:08	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008513

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-02

Client ID:

GP-10-02-094-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/08/10 09:25

Date Received:

06/08/10

and the second research of the following the contract of the second

Field Prep:

See Narrative

Dilution Date Date Analytical MDL Factor Prepared Analyzed Method Qualifier **Parameter** Result Units RL Analyst General Chemistry - Westborough Lab Alkalinity, Total 2.0 NA 1 150 mg CaCO3/L 06/09/10 09:07 30,2320B SD 0.075 1 Nitrogen, Ammonia 0.081 mg/l 0.017 06/09/10 14:00 06/10/10 21:08 30,4500NH3-BH AT 0.02 0.002 1 Nitrogen, Nitrite ND mg/l 06/08/10 23:29 30,4500NO2-B DD Chemical Oxygen Demand 38 7.0 1 06/10/10 04:32 mg/I 20 44,410.4 BH Anions by Ion Chromatography - Westborough Lab Chloride 840 mg/l 50 6.5 100 06/09/10 14:27 44,300.0 ED 0 05 Nitrogen, Nitrate ND 0.01 06/09/10 13:27 mg/l 1 44,300.0 AU Sulfate 1.0 34 mg/l 0.12 06/15/10 05:20 44,300.0 AU

Project Name: SHL TASK 0002 Lab Number:

L1008513

Project Number: AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-03

Client ID: Sample Location:

GP-10-02-102-F DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 10:10

Date Received:

06/08/10

Field Prep:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab								
Alkalinity, Total	210	mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.077	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:08	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	+	06/08/10 23:29	30,4500NO2-B	DD
Chemical Oxygen Demand	40	mg/l	20	7.0	1	-	06/10/10 04:32	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough Lab							
Chloride	640	mg/l	25	3.3	50	4	06/09/10 16:05	44,300.0	ED
Nitrogen, Nitrate	ND	mg/I	0.05	0.01	1	8	06/09/10 13:39	44,300.0	AU
Sulfate	30	mg/l	1.0	0.12	1	5.	06/15/10 05:32	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number: AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-05

Client ID:

GP-10-04-014-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 12:40

Date Received:

06/08/10

Field Prep:

Parameter	Result	Qualifier	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	12		mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0296	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:09	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/I	20	7.0	1		06/10/10 04:32	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	5.7	1	mg/l	0.50	0.07	1		06/09/10 13:52	44,300.0	ED
Nitrogen, Nitrate	0.028	J	mg/l	0.05	0.01	1	14	06/09/10 13:51	44,300.0	AU
Sulfate	0.74	J	mg/l	1.0	0.12	1	2	06/15/10 06:56	44,300.0	AU

Project Name: SHL TASK 0002 Lab Number:

L1008513

Project Number: AC001

Report Date: 06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-06 GP-10-04-024-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 14:00

Date Received:

06/08/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	11		mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0433	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:14	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	9	J	mg/l	20	7.0	1	-	06/10/10 04:33	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	2.0		mg/l	0.50	0.07	1		06/09/10 14:04	44,300,0	ED
Nitrogen, Nitrate	0.03	J	mg/l	0.05	0.01	1	-	06/09/10 14:03	44,300.0	AU
Sulfate	0.67	J	mg/l	1.0	0.12	1	-	06/15/10 07:56	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number:

L1008513

Project Number: AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-07 GP-10-04-034-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 14:50

Date Received:

06/08/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	17		mg CaCO3/L	2.0	NA	1	(8)	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0205	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:15	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	-	06/10/10 04:33	44,410,4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	2.1		mg/l	0.50	0.07	1	9	06/09/10 15:30	44,300.0	ED
Nitrogen, Nitrate	0.10		mg/l	0.05	0.01	1		06/09/10 15:29	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.12	1	-	06/15/10 08:08	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number: AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-08

Client ID:

GP-10-04-044-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 15:10

Date Received:

06/08/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	i.								
Alkalinity, Total	22	Ţ	mg CaCO3/L	2.0	NA	1		06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.024	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:16	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	4	06/08/10 23:30	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1		06/10/10 04:33	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	23		mg/l	0.50	0.07	1	191	06/09/10 15:42	44,300.0	ED
Nitrogen, Nitrate	3.6		mg/l	1.0	0.14	20		06/09/10 16:53	44,300.0	AU
Sulfate	ND		ma/l	1.0	0.12	1		06/15/10 08:20	44.300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1008513

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008513-09

Client ID:

GDUP-060810-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 14:00

Date Received:

06/08/10

Field Prep:

Date Prepared	Date Analyzed	Analytical Method	Analyst
8	06/09/10 09:07	30,2320B	SD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	11		mg CaCO3/L	2,0	NA	1	8	06/09/10 09:07	30,2320B	SD
Nitrogen, Ammonia	0.0242	J	mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:17	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	2	06/08/10 23:31	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1		06/10/10 04:34	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	2.2		mg/l	0.50	0.07	1	2	06/09/10 15:54	44,300.0	ED
Nitrogen, Nitrate	0.049	J	mg/l	0.05	0.01	4	*)	06/09/10 15:53	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.12	1	*	06/15/10 08:32	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008513 06/26/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result C	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab	for sam	nple(s): 0	1-03,05-09	Batch	: WG416	855-2			
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	~	06/08/10 23:28	30,4500NO2-B	DD
General Chemistry - V	Westborough Lab	for sam	nple(s): 0	1-03,05-09	Batch	: WG417	000-1			
Nitrogen, Ammonia	ND		mg/l	0.075	0.017	1	06/09/10 14:00	06/10/10 21:02	30,4500NH3-BH	AT AT
General Chemistry - V	Westborough Lab	for sam	nple(s): 0	1-03,05-09	Batch	: WG417	058-1			
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	19	06/10/10 04:30	44,410.4	вн
General Chemistry - \	Nestborough Lat	for sam	nple(s): 0	1-03,05-09	Batch	: WG417	122-1			
Alkalinity, Total	ND		mg CaCO	3/L 2.0	NA	1	4	06/09/10 09:07	30,2320B	SD
Anions by Ion Chroma	atography - West	borough	Lab for	sample(s):	01-03,0	5-09 Ba	tch: WG4179	02-1	8	
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	-	06/09/10 12:39	44,300.0	AU
Anions by Ion Chroma	atography - West	borough	Lab for	sample(s):	01-03,0	5-09 Ba	tch: WG4181	05-1		
Sulfate	0.14	J	mg/l	1.0	0.12	1		06/15/10 07:32	44,300.0	AU
nions by Ion Chroma	atography - West	borough	Lab for	sample(s):	01-03,0	5-09 Ba	tch: WG4189	33-1		
Chloride	ND		mg/l	0.50	0.07	1		06/09/10 12:40	44,300.0	ED

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008513

Report Date:

06/26/10

Parameter	LCS %Recovery	Qual %	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s)	: 01-03,05-0	9 Batch:	WG416855	-1			
Nitrogen, Nitrite	100		×		90-110	•		20
General Chemistry - Westborough Lab	Associated sample(s)	: 01-03,05-0	9 Batch:	WG417000-	-2			
Nitrogen, Ammonia	100		3		80-120	+		20
General Chemistry - Westborough Lab	Associated sample(s):	01-03,05-0	9 Batch:	WG417058-	-2			
Chemical Oxygen Demand	101		ı.		95-105	¥		
General Chemistry - Westborough Lab	Associated sample(s):	01-03,05-0	9 Batch:	WG417122-	2			
Alkalinity, Total	103		12		80-115	T		4
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample(s):	01-03,05-	-09 Batch:	WG417902-2			
Nitrogen, Nitrate	92				90-110	1.5		
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample(s):	01-03,05-	09 Batch:	WG418105-2			
Sulfate	105				90-110	- 4		
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample(s):	01-03,05-	09 Batch:	WG418933-2			
Chloride	95		4		90-110	(1)		

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008513

Report Date:

06/26/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD Qua	RPD al Limits
General Chemistry - Westbor 014-F	ough Lab Asso	ociated samp	le(s): 01-0	3,05-09 QC E	Batch ID	: WG416855	5-3 QC Sam	ple: L1008513-0	5 Client ID:	GP-10-04-
Nitrogen, Nitrite	ND	0.1	0.10	100			•	85-115	*	20
General Chemistry - Westbor 014-F	ough Lab Asso	ociated samp	le(s): 01-0	3,05-09 QC E	Batch ID	: WG417000	0-3 QC Sam	ple: L1008513-0	5 Client ID:	GP-10-04-
Nitrogen, Ammonia	ND	4	3.81	95			4	80-120		20
General Chemistry - Westbor 014-F	ough Lab Asso	ociated samp	le(s): 01-0	3,05-09 QC B	atch ID	: WG417058	3-4 QC Sam	ple: L1008513-0	5 Client ID:	GP-10-04-
Chemical Oxygen Demand	ND	238	240	100		7	- 12	80-120	150	20
General Chemistry - Westbor 014-F	ough Lab Asso	ociated samp	le(s): 01-0	3,05-09 QC B	atch ID:	: WG417122	2-3 QC Sam	ple: L1008513-0	5 Client ID:	GP-10-04-
Alkalinity, Total	12	100	120	103		¥	2	86-116	2	4
Anions by Ion Chromatograph Client ID: GP-10-04-014-F	ny - Westborou	igh Lab Asso	ciated san	nple(s): 01-03,0	5-09 (QC Batch ID	: WG417902-3	3 WG417902-4	QC Sample:	L1008513-0
Nitrogen, Nitrate	ND	0.4-	0.38	95		0.41	102	80-122	7	15
Anions by Ion Chromatograph Client ID: GP-10-04-014-F	ny - Westborou	igh Lab Asso	ciated san	nple(s): 01-03,0	5 - 09 (QC Batch ID	: WG418105-3	3 WG418105-4	QC Sample:	L1008513-0
Sulfate	ND	8	9.2	115		9.5	119	60-140	3	20
Anions by Ion Chromatograph Client ID: GP-10-04-014-F	ny - Westborou	gh Lab Asso	ciated san	nple(s): 01-03,0	5-09 (QC Batch ID	: WG418933-3	3 WG418933-4	QC Sample:	L1008513-0
Chloride	5,7	4	7.3	40		7.2	38	Q 40-151	5	18

Lab Duplicate Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

rol Lab Number: L1008513

Report Date: 06/26/10

Parameter	Nat	ive Sample	Duplic	cate Sample	Units	RPD	Qual RP	D Limits
General Chemistry - Westborough Lab 014-F	Associated sample(s):	01-03,05-09	QC Batch ID): WG416855	-4 QC Sample:	L1008513-	05 Client ID:	GP-10-04-
Nitrogen, Nitrite	440	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab 014-F	Associated sample(s):	01-03,05-09	QC Batch ID): WG417000	-4 QC Sample:	L1008513-	05 Client ID:	GP-10-04-
Nitrogen, Ammonia	4.	0.0296J	10	0,0339J	mg/l	NC		20
General Chemistry - Westborough Lab 014-F	Associated sample(s):	01-03,05-09	QC Batch ID	: WG417058	-3 QC Sample:	L1008513-	05 Client ID:	GP-10-04-
Chemical Oxygen Demand		ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	01-03,05-09	QC Batch ID	: WG417122	-4 QC Sample:	L1008513-	05 Client ID:	GP-10-04-
Alkalinity, Total	4	12		12	mg CaCO3/L	0		4
Anions by Ion Chromatography - Westb GP-10-04-014-F	orough Lab Associated	d sample(s):	01-03,05-09	QC Batch ID:	WG417902-5	QC Sample:	L1008513-0	5 Client ID:
Nitrogen, Nitrate		0.028J		0,031J	mg/l	NC		15
Anions by Ion Chromatography - Westb GP-10-04-014-F	orough Lab Associated	d sample(s):	01-03,05-09	QC Batch ID:	WG418105-5	QC Sample:	L1008513-0	5 Client ID:
Sulfate		0.74J		1.3	mg/l	NC		20
Anions by Ion Chromatography - Westb GP-10-04-014-F	orough Lab Associated	d sample(s):	01-03,05-09	QC Batch ID:	WG418933-5	QC Sample:	L1008513-0	5 Client ID:
Chloride		5.7		3.8	mg/l	40	Q	18

Project Name: SHL TASK 0002

Lab Number: L1008513 Project Number: AC001 Report Date: 06/26/10

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B Present/Intact A Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008513-01A	Plastic 250ml unpreserved	В	7	5	Y	Present/Intact	NO2-4500NO2(2)
L1008513-01B	Plastic 500ml HNO3 preserved	В	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-01C	Plastic 500ml H2SO4 preserved	В	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-01D	Plastic 500ml unpreserved	В	7	5	Υ	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-01E	Plastic 250ml unpreserved	В	N/A	5	Y	Present/Intact	ALK-T-2320(14)
L1008513-02A	Plastic 250ml unpreserved	В	7	5	Y	Present/Intacl	NO2-4500NO2(2)
L1008513-02B	Plastic 500ml HNO3 preserved	В	<2	5	Υ	Present/Inlact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-02C	Plastic 500ml H2SO4 preserved	В	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-02D	Plastic 500ml unpreserved	В	7	5	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-02E	Plastic 250ml unpreserved	В.	N/A	5	Y	Present/Intact	ALK-T-2320(14)
L1008513-03A	Plastic 250ml unpreserved	В	7	5	Y	Present/Intact	NO2-4500NO2(2)
L1008513-03B	Plastic 500ml HNO3 preserved	В	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-03C	Plastic 500ml H2SO4 preserved	В	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-03D	Plastic 500ml unpreserved	В	7	5	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-03E	Plastic 250ml unpreserved	В	N/A	5	Y	Present/Intact	ALK-T-2320(14)

Project Name: SH

SHL TASK 0002

Project Number: AC001

Lab Number: L1008513 **Report Date:** 06/26/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008513-04B	Plastic 500ml HNO3 preserved	В	<2	5	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-05A	Plastic 250ml unpreserved	Α	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-05B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-05C	Plastic 500ml H2SO4 preserved	Α	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-05D	Plastic 500ml unpreserved	Α	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-05E	Plastic 250ml unpreserved	Α.	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-05F	Plastic 250ml unpreserved	Α	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-05G	Plastic 500ml HNO3 preserved	Α	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-05H	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-05I	Plastic 500ml unpreserved	Α	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-05J	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-06A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-06B	Plastic 500ml HNO3 preserved	Α	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-06C	Plastic 500ml H2SO4 preserved	Α	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-06D	Plastic 500ml unpreserved	- A	7	. 2	. Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-06E	Plastic 250ml unpreserved	Α	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-07A	Plastic 250ml unpreserved	Α	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-07B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-07C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-07D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-07E	Plastic 250ml unpreserved	Α	N/A	2	Y	Present/Intact	ALK-T-2320(14)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008513 **Report Date:** 06/26/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008513-08A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-08B	Plastic 500ml HNO3 preserved	В	<2	5	Υ	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-08C	Plastic 500ml H2SO4 preserved	В	<2	5	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-08D	Plastic 500ml unpreserved	В	7	5	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-08E	Plastic 250ml unpreserved	Α	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008513-09A	Plastic 250ml unpreserved	Α	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008513-09B	Plastic 500ml HNO3 preserved	Α	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008513-09C	Plastic 500ml H2SO4 preserved	Α	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008513-09D	Plastic 500ml unpreserved	Α	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008513-09E	Plastic 250ml unpreserved	Α	N/A	2	Y	Present/Intact	ALK-T-2320(14)

Project Name: SHL TASK 0002

Lab Number:

L1008513

Project Number: AC001 Report Date:

06/26/10

GLOSSARY

Acronyms

EPA Environmental Protection Agency.

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

MDL. -Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable,

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable.

RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- Spectra identified as "Aldol Condensation Product". A
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument. E
- -The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of H sample collection.
- p The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.

DU Report with "J" Qualifiers Report Format:



Project Name: SHL TASK 0002 Lab Number: L1008513

Project Number:

AC001

Report Date: 06/26/10

Data Qualifiers

· Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

· Not detected at the method detection limit (MDL) for the sample. ND

Report Format: DU Report with "J" Qualifiers Project Name:

SHL TASK 0002

Lab Number:

L1008513

Project Number: AC001 Report Date:

06/26/10

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

- Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-30 WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently field.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate.

Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-

chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.) Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity, Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1 Organic Parameters: 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-B, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1, Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics) (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for; Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0 Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1,

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B.

Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA

8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID.; 68-03671. NELAP Accredited. Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited. Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2 D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

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ANALYTICAL REPORT

Lab Number:

L1008586

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

06/24/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001 Report Date: 06/24/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008586-01	GP-10-04-054-F	DEVENS, MA	06/08/10 15:50
L1008586-02	GP-10-04-064-F	DEVENS, MA	06/08/10 16:25
L1008586-03	GP-10-04-074-F	DEVENS, MA	06/08/10 17:15
L1008586-04	GP-10-04-084-F	DEVENS, MA	06/08/10 17:50
L1008586-05	GP-10-04-094-F	DEVENS, MA	06/08/10 18:30
L1008586-06	GP-10-05-015-F	DEVENS, MA	06/09/10 09:58
L1008586-07	GP-10-05-025-F	DEVENS, MA	06/09/10 10:25
L1008586-08	GP-10-05-035-F	DEVENS, MA	06/09/10 10:53
L1008586-09	GP-10-05-045-F	DEVENS, MA	06/09/10 11:24
L1008586-10	GP-10-05A-029-F	DEVENS, MA	06/09/10 13:20
L1008586-11	GP-10-05A-039-F	DEVENS, MA	06/09/10 14:05
L1008586-12	GP-10-05A-049-F	DEVENS, MA	06/09/10 14:55
L1008586-13	GDUP-060910-F	DEVENS, MA	06/09/10 10:25
L1008586-14	GDUP2-060910-F	DEVENS, MA	06/09/10 14:05
L1008586-15	RB-060910-U	DEVENS, MA	06/09/10 12:30

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008586

Report Date:

06/24/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Metals

L1008586-03, -04, -05, -07 through -10 and -13 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were not

Project Name: Project Number: SHL TASK 0002

Lab Number:

L1008586

AC001

Report Date:

06/24/10

Case Narrative (continued)

achieved for Arsenic on -03, -07, -10 and -13.

The WG417171-1 Method Blank, associated with L1008586-01 through -14, has a concentration greater than one half the reporting limit for Calcium. The results of all associated samples are greater than 10x the blank concentration; therefore, no qualification of results was performed.

The WG417171-5 Post Digestion Spike recovery for Calcium was outside the DoD acceptance criteria of 75-125%; therefore, the parent sample (L1008586-06) is "J" qualified for this element.

Chloride

L1008586-01 through 05, -09 and -10 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG417542-3/-4 MS/MSD recoveries (0%/0%), performed on L1008586-06, are invalid because the sample concentration is greater than four times the spike amount added.

Nitrogen, Nitrate

L1008586-01 through -05 were analyzed with the method required holding time exceeded. The results are reported at the client's request.

L1008586-01, -02, -06, -10, -11, -12 and -14 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

Sulfate

L1008586-01 and -02 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

The WG417086-1 Method Blank, associated with L1008586-01 through -14, has a concentration above the reporting limit. The results of the original analysis are reported and are qualified with a "B" for any associated sample concentrations that are less than 10x the blank concentration for this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Watelle M. Morris

Title: Technical Director/Representative

Date: 06/24/10

METALS

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008586

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-01

Client ID:

GP-10-04-054-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 15:50

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.26	J	ug/l	0.500	0.113	1	06/10/10 11:15	5 06/11/10 00:16	EPA 3005A	1,6020A	вм
Calcium, Dissolved	57400		ug/l	100	12.6	1	06/10/10 11:15	5 06/11/10 00:16	EPA 3005A	1,6020A	BM
Iron, Dissolved	3040		ug/l	50.0	8.41	1	06/10/10 11:15	5 06/11/10 00:16	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	14500		ug/l	100	4.10	1	06/10/10 11:15	5 06/11/10 00:16	EPA 3005A	1,6020A	вм
Manganese, Dissolved	811		ug/l	1.00	0.136	1	06/10/10 11:15	5 06/11/10 00:16	EPA 3005A	1,6020A	вм
Potassium, Dissolved	3360		ug/l	100	18.2	1	06/10/10 11:15	5 06/11/10 00:16	EPA 3005A	1,6020A	вм
Sodium, Dissolved	36700		ug/l	100	18.2	1	06/10/10 11:15	5 06/11/10 00:16	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-02

Client ID:

GP-10-04-064-F DEVENS, MA

Sample Location; Matrix:

Sodium, Dissolved

Water

73900

Date Collected:

06/08/10 16:25

Date Received:

06/10/10 11:15 06/11/10 00:22 EPA 3005A

06/09/10

Field Prep:

See Narrative

1,6020A

ВМ

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - \	Vestboro	ugh Lab									
Arsenic, Dissolved	0.33	J	ug/l	0.500	0.113	1	06/10/10 11:1	5 06/11/10 00:22	EPA 3005A	1,6020A	вм
Calcium, Dissolved	75300		ug/I	100	12.6	1	06/10/10 11:1	5 06/11/10 00:22	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1200		ug/l	50.0	8.41	1	06/10/10 11:1	5 06/11/10 00:22	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	12600		ug/l	100	4.10	1	06/10/10 11:1	5 06/11/10 00:22	EPA 3005A	1,6020A	вм
Manganese, Dissolved	510		ug/l	1.00	0.136	1	06/10/10 11:1	5 06/11/10 00:22	EPA 3005A	1,6020A	ВМ
Potassium Dissolved	3020		ug/l	100	18.2	4	06/10/10 11:1	5 06/11/10 00:22	EPA 3005A	1.6020A	BM

18.2

ug/l

100

Project Name: SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008586-03

GP-10-04-074-F

Sample Location: DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 17:15

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.33	J	ug/l	1.00	0.226	2	06/10/10 11:15	5 06/11/10 00:28	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	19400		ug/l	200	25.3	2	06/10/10 11:15	5 06/11/10 00:28	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	3000		ug/l	100	16.8	2	06/10/10 11:15	5 06/11/10 00:28	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	2470		ug/l	200	8.20	2	06/10/10 11:15	5 06/11/10 00:28	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	433		ug/l	2.00	0.272	2	06/10/10 11:15	5 06/11/10 00:28	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	3260		ug/l	200	36.3	2	06/10/10 11:15	5 06/11/10 00:28	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	207000		ug/l	200	36.4	2	06/10/10 11:15	5 06/11/10 00:28	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Project Number: AC001

Report Date:

L1008586

Lab Number:

06/24/10

Lab ID:

L1008586-04

Client ID:

GP-10-04-084-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 17:50

Date Received:

06/09/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	1.27		ug/l	1.00	0.226	2	06/10/10 11:1	5 06/11/10 00:46	EPA 3005A	1,6020A	вм
Calcium, Dissolved	5640		ug/l	200	25.3	2	06/10/10 11:1	5 06/11/10 00:46	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	896		ug/l	100	16.8	2	06/10/10 11:1	5 06/11/10 00:46	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	740		ug/I	200	8.20	2	06/10/10 11:1	5 06/11/10 00:46	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	91.4		ug/l	2.00	0.272	2	06/10/10 11:1	5 06/11/10 00:46	EPA 3005A	1,6020A	вм
Potassium, Dissolved	2000		ug/l	200	36.3	2	06/10/10 11:1	5 06/11/10 00:46	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	181000		ug/l	200	36.4	2	06/10/10 11:1	5 06/11/10 00:46	EPA 3005A	1,6020A	ВМ

SAMPLE RESULTS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1008586

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

Matrix:

L1008586-05

Client ID:

GP-10-04-094-F DEVENS, MA

Sample Location:

Water

Date Collected:

06/08/10 18:30

Date Received:

06/09/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals	- Westboro	ugh Lab									
Arsenic, Dissolved	15.1		ug/l	2.50	0.565	5	06/10/10 11:1	5 06/11/10 00:52	EPA 3005A	1,6020A	вм
Calcium, Dissolved	154000		ug/l	500	63,3	5	06/10/10 11:1	5 06/11/10 00:52	EPA 3005A	1,6020A	ВМ

06/10/10 11:15 06/11/10 00:52 EPA 3005A 1,6020A BM Iron, Dissolved 3630 ug/l 250 42.0 5 06/10/10 11:15 06/11/10 00:52 EPA 3005A 5 1,6020A BM Magnesium, Dissolved 20300 ug/l 500 20.5 3170 5 06/10/10 11:15 06/11/10 00:52 EPA 3005A 1,6020A Manganese, Dissolved ug/l 5.00 0.680 BM 1,6020A 06/10/10 11:15 06/11/10 00:52 EPA 3005A BM Potassium, Dissolved 12300 ug/l 500 90.8 5 1,6020A Sodium, Dissolved 325000 ug/l 500 91.0 5 06/10/10 11:15 06/11/10 00:52 EPA 3005A BM

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008586

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-06

Client ID:

GP-10-05-015-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/09/10 09:58

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.31	J	ug/l	0.500	0.113	1	06/10/10 11:1:	5 06/11/10 01:04	EPA 3005A	1,6020A	вм
Calcium, Dissolved	7540	J	ug/l	100	12.6	1	06/10/10 11:1:	5 06/11/10 01:04	EPA 3005A	1,6020A	вм
Iron, Dissolved	262		ug/l	50.0	8.41	1	06/10/10 11:1:	5 06/11/10 01:04	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	1090		ug/l	100	4.10	1	06/10/10 11:1:	5 06/11/10 01:04	EPA 3005A	1,6020A	вм
Manganese, Dissolved	483		ug/l	1.00	0.136	1	06/10/10 11:1	5 06/11/10 01:04	EPA 3005A	1,6020A	вм
Polassium, Dissolved	1280		ug/I	100	18.2	1	06/10/10 11:1	5 06/11/10 01:04	EPA 3005A	1,6020A	вм
Sodium, Dissolved	11200		ug/l	100	18.2	1	06/10/10 11:1	5 06/11/10 01:04	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-07

Client ID:

GP-10-05-025-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/09/10 10:25

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.58	J	ug/l	2.50	0.565	5	06/10/10 11:1	5 06/11/10 01:28	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	17000		ug/l	500	63.3	5	06/10/10 11:1	5 06/11/10 01:28	EPA 3005A	1,6020A	вм
Iron, Dissolved	1150		ug/l	250	42.0	5	06/10/10 11:1	5 06/11/10 01:28	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	2590		ug/l	500	20.5	5	06/10/10 11:1	5 06/11/10 01:28	EPA 3005A	1,6020A	вм
Manganese, Dissolved	11200		ug/I	5.00	0.680	5	06/10/10 11:1	5 06/11/10 01:28	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	1700		ug/I	500	90.8	5	06/10/10 11:1	5 06/11/10 01:28	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	23800		ug/l	500	91.0	5	06/10/10 11:1	5 06/11/10 01:28	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-08

Client ID:

GP-10-05-035-F

Sample Location: Matrix:

DEVENS, MA

Water

Date Collected:

06/09/10 10:53

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	112		ug/I	2.50	0.565	5	06/10/10 11:1	5 06/11/10 01:34	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	12400		ug/I	500	63.3	5	06/10/10 11:1	5 06/11/10 01:34	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	12600		ug/l	250	42.0	5	06/10/10 11:1	5 06/11/10 01:34	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	2260		ug/l	500	20.5	5	06/10/10 11:1	5 06/11/10 01:34	EPA 3005A	1,6020A	вм
Manganese, Dissolved	4610		ug/l	5.00	0.680	5	06/10/10 11:1	5 06/11/10 01:34	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	1160		ug/l	500	90.8	5	06/10/10 11:1	5 06/11/10 01:34	EPA 3005A	1,6020A	вм
Sodjum, Dissolved	19100		ug/l	500	91.0	5	06/10/10 11:1	5 06/11/10 01:34	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-09

GP-10-05-045-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 11:24

Date Received:

06/09/10

Field Prep:

Paramete	er	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolve	ed Metals - V	Vestboro	ugh Lab									
Arsenic, I	Dissolved	84.7		ug/l	2.50	0.565	5	06/10/10 11:1	5 06/11/10 01:40	EPA 3005A	1,6020A	ВМ
Calcium,	Dissolved	18800		ug/l	500	63.3	5	06/10/10 11:1	5 06/11/10 01:40	EPA 3005A	1,6020A	ВМ
Iron, Diss	solved	11200		ug/l	250	42.0	5	06/10/10 11:1	5 06/11/10 01:40	EPA 3005A	1,6020A	ВМ
Magnesiu	ım, Dissolved	2550		ug/l	500	20.5	.5	06/10/10 11:1	5 06/11/10 01:40	EPA 3005A	1,6020A	вм
Mangane	se, Dissolved	2320		ug/l	5.00	0.680	5	06/10/10 11:1	5 06/11/10 01:40	EPA 3005A	1,6020A	вм
Potassiur	m, Dissolved	1710		ug/I	500	90.8	5	06/10/10 11:1	5 06/11/10 01:40	EPA 3005A	1,6020A	вм
Sodium, I	Dissolved	28700		ug/l	500	91.0	5	06/10/10 11:1	5 06/11/10 01:40	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-10

Client ID:

GP-10-05A-029-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/09/10 13:20

Date Received:

06/09/10

Field Prep:

06/09/10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.62	J	ug/l	2.50	0.565	5	06/10/10 11:15	5 06/11/10 01:58	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	8140		ug/l	500	63.3	5	06/10/10 11:15	5 06/11/10 01:58	EPA 3005A	1,6020A	вм
Iron, Dissolved	604		ug/l	250	42.0	5	06/10/10 11:1	5 06/11/10 01:58	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	878		ug/l	500	20.5	5	06/10/10 11:1	5 06/11/10 01:58	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	63.8		ug/l	5.00	0.680	5	06/10/10 11:1	5 06/11/10 01:58	EPA 3005A	1,6020A	вм
Potassium, Dissolved	3200		ug/l	500	90.8	5	06/10/10 11:1:	5 06/11/10 01:58	EPA 3005A	1,6020A	вм
Sodium, Dissolved	272000		ug/l	500	91.0	5	06/10/10 11:1	5 06/11/10 01:58	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008586

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-11

Client ID: Sample Location: GP-10-05A-039-F DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 14:05

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.35	J	ug/l	0.500	0.113	1	06/10/10 11:18	5 06/11/10 02:04	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	13600		ug/l	100	12.6	1	06/10/10 11:18	5 06/11/10 02:04	EPA 3005A	1,6020A	вм
Iron, Dissolved	2310		ug/l	50.0	8.41	1	06/10/10 11:1:	5 06/11/10 02:04	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	2810		ug/l	100	4.10	1	06/10/10 11:15	5 06/11/10 02:04	EPA 3005A	1,6020A	вм
Manganese, Dissolved	221		ug/l	1.00	0.136	1	06/10/10 11:1	5 06/11/10 02:04	EPA 3005A	1,6020A	вм
Potassium, Dissolved	1420		ug/l	100	18.2	3	06/10/10 11:1	5 06/11/10 02:04	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	27400		ug/l	100	18.2	1	06/10/10 11:1	5 06/11/10 02:04	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-12

Client ID:

GP-10-05A-049-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 14:55

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - W	Vestboro	ugh Lab									
Arsenic, Dissolved	1.12		ug/l	0.500	0.113	1	06/10/10 11:1	5 06/11/10 02:10	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	16400		ug/l	100	12.6	1	06/10/10 11:1	5 06/11/10 02:10	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	3360		ug/l	50.0	8.41	1	06/10/10 11:1	5 06/11/10 02:10	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	1990		ug/l	100	4.10	1	06/10/10 11:1	5 06/11/10 02:10	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	203		ug/I	1.00	0.136	1	06/10/10 11:1	5 06/11/10 02:10	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	1500		ug/l	100	18.2	1	06/10/10 11:1	5 06/11/10 02:10	EPA 3005A	1,6020A	BM
Sodium, Dissolved	18600		ug/l	100	18.2	1	06/10/10 11:1	5 06/11/10 02:10	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

Matrix:

L1008586-13

Client ID:

GDUP-060910-F

Sample Location:

DEVENS, MA Water Date Collected:

06/09/10 10:25

Date Received:

06/09/10

Field Prep:

See Narrative

Dilution Date Prep Analytical Date Method Factor Prepared Analyzed Method **Parameter** Result Qualifier Units RL MDL Analyst Dissolved Metals - Westborough Lab ND 1,6020A Arsenic, Dissolved ug/l 2.50 0.565 5 06/10/10 11:15 06/11/10 02:16 EPA 3005A BM Calcium, Dissolved 16800 ug/l 500 63.3 5 06/10/10 11:15 06/11/10 02:16 EPA 3005A 1,6020A ВМ 572 1,6020A Iron, Dissolved ug/l 250 42.0 5 06/10/10 11:15 06/11/10 02:16 EPA 3005A BM 5 1,6020A Magnesium, Dissolved 2600 500 20.5 06/10/10 11:15 06/11/10 02:16 EPA 3005A BM ug/l 5 1,6020A Manganese, Dissolved 11200 ug/l 5.00 0.680 06/10/10 11:15 06/11/10 02:16 EPA 3005A BM 5 06/10/10 11:15 06/11/10 02:16 EPA 3005A 1,6020A Potassium, Dissolved 1580 ug/l 500 90.8 BM Sodium, Dissolved 23900 ug/l 500 91.0 5 06/10/10 11:15 06/11/10 02:16 EPA 3005A 1,6020A BM

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

Magnesium, Dissolved

Manganese, Dissolved

Potassium, Dissolved

Sodium, Dissolved

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-14

Client ID:

GDUP2-060910-F DEVENS, MA

Sample Location: Matrix:

Water

2850

237

1490

30400

Date Collected:

06/09/10 14:05

Date Received:

06/10/10 11:15 06/11/10 02:22 EPA 3005A

06/09/10

Field Prep:

See Narrative

1,6020A

1,6020A

1,6020A

1,6020A

BM

BM

BM

BM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.33	J	ug/l	0.500	0.113	1	06/10/10 11:19	5 06/11/10 02:22	EPA 3005A	1,6020A	вм
Calcium, Dissolved	13900		ug/l	100	12.6	1	06/10/10 11:1	5 06/11/10 02:22	EPA 3005A	1,6020A	вм
Iron, Dissolved	2510		ug/l	50.0	8.41	1	06/10/10 11:1:	5 06/11/10 02:22	EPA 3005A	1,6020A	ВМ

4.10

0.136

18.2

18.2

100

1.00

100

100

ug/l

ug/l

ug/l

ug/l

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008586-15

RB-060910-U

Sample Location: Matrix:

DEVENS, MA

Water

Date Collected:

06/09/10 12:30

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/10/10 11:1:	5 06/11/10 02:28	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	ND		ug/I	100	12.6	1	06/14/10 12:00	0 06/15/10 22:37	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	ND		ug/l	50.0	8.41	-1	06/10/10 11:1	5 06/1 1/10 02:28	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/10/10 11:1:	5 06/11/10 02:28	EPA 3005A	1,6020A	вм
Manganese, Dissolved	0.75	J	ug/l	1.00	0.136	1	06/10/10 11:1:	5 06/11/10 02:28	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	ND		ug/t	100	18.2	1	06/10/10 11:1:	5 06/11/10 02:28	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	29.1	J	ug/l	100	18.2	1	06/10/10 11:1	5 06/11/10 02:28	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008586

06/24/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result (Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - West	borough Lat	for samp	ole(s): 01	-15 Ba	tch: W	G417171-1	1			
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/10/10 11:15	06/10/10 19:59	1,6020A	вм
Calcium, Dissolved	56.2	J	ug/l	100	12.6	1	06/10/10 11:15	06/10/10 19:59	1,6020A	вм
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/10/10 11:15	06/10/10 19:59	1,6020A	вм
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/10/10 11:15	06/10/10 19:59	1,6020A	ВМ
Manganese, Dissolved	0.18	J	ug/l	1.00	0.136	1	06/10/10 11:15	06/10/10 19:59	1,6020A	ВМ
Potassium, Dissolved	ND		ug/I	100	18.2	1	06/10/10 11:15	06/10/10 19:59	1,6020A	ВМ
Sodium, Dissolved	ND		ug/l	100	18.2	1	06/10/10 11:15	06/10/10 19:59	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Dissolved Metals - Wes	tborough Lab for samp	ole(s): 15	Batch	: WG4	17791-1				
Calcium, Dissolved	ND	ug/l	100	12.6	1	06/14/10 12:00	06/15/10 21:18	1.6020A	BM

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

SHL TASK 0002 Batch Quality Con

Lab Number:

L1008586

Report Date:

06/24/10

Project Name: SHL TASK 0002
Project Number: AC001

Parameter	LCS %Recovery	Qual	LC: %Rec		Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01-15	Batch: \	WG41717	1-2				
Arsenic, Dissolved	98		100			80-120			
Calcium, Dissolved	102					80-120			
Iron, Dissolved	103					80-120	0		
Magnesium, Dissolved	97		- 4			80-120	120		
Manganese, Dissolved	104					80-120	12.5		
Potassium, Dissolved	98					80-120	4		
Sodium, Dissolved	106		10			80-120	*		
Dissolved Metals - Westborough Lab		15 B	atch: WG	417791-2					
Calcium, Dissolved	107					80-120	41		

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008586

Report Date:

06/24/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD
Dissolved Metals - Westboroug 10-05-015-F	gh Lab Assoc	iated sample	e(s): 01-15	QC Batch ID:	WG417	171-3 WC	G417171-4 Q	C Samp	ole: L100858	6-06	Client	ID: G
Arsenic, Dissolved	ND	120	120	100		121	101		80-120	1		20
Calcium, Dissolved	7540	10000	18000	105		18600	111		80-120	6		20
Iron, Dissolved	262	1000	1280	102		1310	105		80-120	3		• 20
Magnesium, Dissolved	1090	10000	10600	95		10600	95		80-120	0		20
Manganese, Dissolved	483	500	1030	109		1040	111		80-120	2		20
Potassium, Dissolved	1280	10000	11000	97		11200	99		80-120	2		20
Sodium, Dissolved	11200	10000	20100	89		20200	90		80-120	1		20
Dissolved Metals - Westboroug	jh Lab Associ	ated sample	e(s): 15 Q	C Batch ID: Wo	G417791	-4 QC S	Sample: L1008	586-15	Client ID:	RB-06	60910-l	Ú
Calcium, Dissolved	ND	10000	11400	114		-			80-120			20

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1008586

Report Date:

06/24/10

Parameter	Nativ	e Sample	Duplicate S	ample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s): 15	QC Batch ID:	WG417791-3	QC Sample	: L10085	86-15 Clien	t ID: RB-0	060910-U
Calcium, Dissolved		ND	ND		ug/l	NC		20

Project Name:

Project Number:

SHL TASK 0002

AC001

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

The state of the s

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-01 GP-10-04-054-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 15:50

Date Received:

06/09/10 See Narrative

Field Prep: Se

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
borough Lab									
100		mg CaCO3/L	2.0	NA	1		06/10/10 09:04	30,2320B	SD
2.67		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:31	30,4500NH3-BH	AT
0.01	J	mg/l	0.02	0.002	4		06/09/10 22:48	30,4500NO2-B	DD
11	J	mg/l	20	7.0	1	· ·	06/11/10 06:11	44,410.4	вн
raphy - West	borough	Lab							
67		mg/l	12	1.6	25	4	06/10/10 00:20	44,300.0	AU
5.8		mg/l	1.0	0.14	20		06/10/10 22:28	44,300.0	AU
87		mg/l	20	2.3	20	.5.	06/10/10 22:28	44,300.0	AU
	tborough Lab 100 2.67 0.01 11 raphy - West 67 5.8	tborough Lab 100 2.67 0.01 11 J raphy - Westborough 67 5.8	tborough Lab 100 mg CaCO3/L 2.67 mg/l 0.01 J mg/l 11 J mg/l raphy - Westborough Lab 67 mg/l 5.8 mg/l	tborough Lab 100 mg CaCO3/L 2.0 2.67 mg/l 0.075 0.01 J mg/l 0.02 11 J mg/l 20 raphy - Westborough Lab 67 mg/l 12 5.8 mg/l 1.0	tborough Lab 100 mg CaCO3/L 2.0 NA 2.67 mg/l 0.075 0.025 0.01 J mg/l 0.02 0.002 11 J mg/l 20 7.0 raphy - Westborough Lab 67 mg/l 12 1.6 5.8 mg/l 1.0 0.14	Result Qualifier Units RL MDL Factor tborough Lab 100 mg CaCO3/L 2.0 NA 1 2.67 mg/l 0.075 0.025 1 0.01 J mg/l 0.02 0.002 1 11 J mg/l 20 7.0 1 raphy - Westborough Lab 67 mg/l 12 1.6 25 5.8 mg/l 1.0 0.14 20	Result Qualifier Units RL MDL Factor Prepared tborough Lab 100 mg CaCO3/L 2.0 NA 1 - 2.67 mg/l 0.075 0.025 1 06/16/10 23:30 0.01 J mg/l 0.02 0.002 1 - 11 J mg/l 20 7.0 1 - raphy - Westborough Lab 67 mg/l 12 1.6 25 - 5.8 mg/l 1.0 0.14 20 -	Result Qualifier Units RL MDL Factor Prepared Analyzed tborough Lab 100 mg CaCO3/L 2.0 NA 1 - 06/10/10 09:04 2.67 mg/l 0.075 0.025 1 06/16/10 23:30 06/17/10 22:31 0.01 J mg/l 0.02 0.002 1 - 06/09/10 22:48 11 J mg/l 20 7.0 1 - 06/11/10 06:11 raphy - Westborough Lab 67 mg/l 12 1.6 25 - 06/10/10 00:20 5.8 mg/l 1.0 0.14 20 - 06/10/10 22:28	Result Qualifier Units RL MDL Factor Prepared Analyzed Method tborough Lab 100 mg CaCO3/L 2.0 NA 1 - 06/10/10 09:04 30,2320B 2.67 mg/l 0.075 0.025 1 06/16/10 23:30 06/17/10 22:31 30,4500NH3-BH 0.01 J mg/l 0.02 0.002 1 - 06/09/10 22:48 30,4500NO2-B 11 J mg/l 20 7.0 1 - 06/11/10 06:11 44,410.4 raphy - Westborough Lab 67 mg/l 12 1.6 25 - 06/10/10 00:20 44,300.0 5.8 mg/l 1.0 0.14 20 - 06/10/10 22:28 44,300.0

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-02

Client ID: Sample Location: GP-10-04-064-F DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 16:25

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	120		mg CaCO3/L	2.0	NA	1	4	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.103		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:32	30,4500NH3-BH	AT
Nitrogen, Nitrite	0.01	J	mg/l	0.02	0.002	1	1	06/09/10 22:48	30,4500NO2-B	DD
Chemical Oxygen Demand	20		mg/l	20	7.0	1		06/11/10 06:12	44,410.4	ВН
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	120		mg/l	10	1.3	20		06/10/10 04:20	44,300.0	AU
Nitrogen, Nitrate	3.8		mg/I	1.0	0.14	20		06/11/10 00:26	44,300.0	AU
Sulfate	97		mg/l	20	2.3	20	2	06/11/10 00:26	44,300.0	AU

Project Name: SHL TASK 0002 Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-03 GP-10-04-074-F

06/08/10 17:15

Client ID: Sample Location:

DEVENS, MA

Date Received: Field Prep:

Date Collected:

06/09/10 See Narrative

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	100		mg CaCO3/L	2.0	NA	1		06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0522	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:33	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:48	30,4500NO2-B	DD
Chemical Oxygen Demand	31		mg/l	20	7.0	1	-	06/11/10 06:12	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	210		mg/l	5.0	0.65	10	-	06/10/10 06:20	44,300.0	AU
Nitrogen, Nitrate	0.48		mg/l	0.05	0.01	1	4	06/10/10 20:40	44,300.0	AU
Sulfate	32		mg/l	1.0	0.12	1	4	06/10/10 20:40	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008586

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008586-04

Sample Location:

GP-10-04-084-F DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 17:50

Date Received:

06/09/10

See Narrative Field Prep:

Parameter	Result	Qualifier	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lat)								
Alkalinity, Total	120		mg CaCO3/L	2.0	NA	1	2.00	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0319	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:34	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	+	06/09/10 22:49	30,4500NO2-B	DD
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	- 5	06/11/10 06:12	44,410.4	BH
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	150		mg/l	5.0	0.65	10	4	06/10/10 06:32	44,300.0	AU
Nitrogen, Nitrate	0.12		mg/l	0.05	0.01	1	8	06/10/10 20:52	44,300.0	AU
Sulfate	34		mg/l	1.0	0 12	1	4	06/10/10 20:52	44,300.0	AU

Project Name: SHL TASK 0002 Lab Number:

L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-05 GP-10-04-094-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 18:30

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lat):								
Alkalinity, Total	140	n	ng CaCO3/L	2.0	NA	1	+	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0543	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:35	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:49	30,4500NO2-B	DD
Chemical Oxygen Demand	38		mg/I	20	7.0	1		06/11/10 06:12	44,410.4	ВН
Anions by Ion Chromatog	raphy - West	borough L	.ab							
Chloride	820		mg/l	10	1.3	20		06/10/10 07:08	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	4	06/10/10 21:04	44,300.0	AU
Sulfate	30		mg/l	1.0	0.12	1	-	06/10/10 21:04	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1008586

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008586-06 GP-10-05-015-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 09:58

Date Received:

06/09/10

See Narrative

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	18		mg CaCO3/L	2.0	NA	1	200	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0356	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:36	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	*	06/09/10 22:49	30,4500NO2-B	DD
Chemical Oxygen Demand	25		mg/l	20	7.0	9	4	06/11/10 06:12	44,410.4	ВН
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	19		mg/l	0.50	0.07	1	9	06/10/10 01:32	44,300.0	AU
Nitrogen, Nitrate	0.64		mg/l	0.10	0.01	2		06/10/10 20:04	44,300.0	AU
Sulfate	9.9		mg/l	1.0	0.12	1		06/10/10 22:04	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-07

Field Prep:

06/09/10 10:25

Client ID: Sample Location:

GP-10-05-025-F DEVENS, MA

Date Collected: Date Received:

06/09/10 See Narrative

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	i								
Alkalinity, Total	55		mg CaCO3/L	2.0	NA	1		06/10/10 09:04	30,23208	SD
Nitrogen, Ammonia	0.152		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:41	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:50	30,4500NO2-B	DD
Chemical Oxygen Demand	29		mg/l	20	7.0	1	-	06/11/10 06:14	44,410.4	ВН
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	48		mg/l	0.50	0.07	1		06/10/10 01:44	44,300.0	AU
Nitrogen, Nitrate	0.012	J	mg/l	0.05	0.01	1	-	06/10/10 21:16	44,300.0	AU
Sulfate	6.3	В	mg/l	1.0	0.12	1	(*)	06/10/10 21:16	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-08

Client ID: Sample Location: GP-10-05-035-F DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 10:53

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	61		mg CaCO3/L	2.0	NA	1	3	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.145		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:42	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	4	06/09/10 22:50	30,4500NO2-B	DD
Chemical Oxygen Demand	20		mg/l	20	7.0	1		06/11/10 06:14	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	39		mg/l	0.50	0.07	1		06/10/10 02:56	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1		06/10/10 21:28	44,300.0	AU
Sulfate	3.7	В	mg/l	1.0	0.12	1		06/10/10 21:28	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-09

Client ID:

GP-10-05-045-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 11:24

Date Received:

06/09/10

See Narrative Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Alkalinity, Total	56	m	g CaCO3/L	2.0	NA	1		06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.185		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:43	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:51	30,4500NO2-B	DD
Chemical Oxygen Demand	31		mg/I	20	7.0	1	181	06/11/10 06:14	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough L	.ab							
Chloride	45		mg/l	10	1.3	20	.0	06/10/10 07:44	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1	1.9.1	06/10/10 21:40	44,300.0	AU
Sulfate	1.8	В	mg/l	1.0	0.12	1	4	06/10/10 21:40	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-10

Client ID:

GP-10-05A-029-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 13:20

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Alkalinity, Total	51		mg CaCO3/L	2.0	NA	1.	-	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0425	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:43	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:51	30,4500NO2-B	DD
Chemical Oxygen Demand	56		mg/l	20	7.0	1	1	06/11/10 06:14	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	380		mg/l	10	1.3	20	-	06/10/10 07:56	44,300.0	AU
Nitrogen, Nitrate	1.9		mg/l	0.50	0.07	10	-	06/11/10 00:38	44,300.0	AU
Sulfate	16		mg/l	1.0	0.12	1		06/10/10 23:38	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-11

Client ID: Sample Location:

GP-10-05A-039-F DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 14:05

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	30		mg CaCO3/L	2.0	NA	1	1.8	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0324	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:44	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:52	30,4500NO2-B	DD
Chemical Oxygen Demand	16	Ĵ	mg/l	20	7.0	1	7	06/11/10 06:16	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	34		mg/l	0.50	0.07	1	-	06/10/10 03:32	44,300.0	AU
Nitrogen, Nitrate	2.1		mg/l	0.50	0.07	10		06/11/10 00:50	44,300.0	AU
Sulfate	25		mg/l	1.0	0.12	1		06/10/10 23:50	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008586-12 GP-10-05A-049-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 14:55

Date Received:

06/09/10

See Narrative

Field Prep:

Parameter	Result	Qualifier	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Alkalinity, Total	44		mg CaCO3/L	2.0	NA	1	79	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0387	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:45	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	4	06/09/10 22:52	30,4500NO2-B	DD
Chemical Oxygen Demand	18	J	mg/l	20	7.0	1		06/11/10 06:16	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	20		mg/l	0.50	0.07	1	4	06/10/10 03:44	44,300.0	AU
Nitrogen, Nitrate	1.7		mg/l	0.50	0.07	10	2	06/11/10 01:02	44,300.0	AU
Sulfate	13		mg/l	1.0	0.12	1	-	06/11/10 00:02	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date: 06/24/10

SAMPLE RESULTS

Lab ID: Client ID: L1008586-13 GDUP-060910-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 10:25

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Alkalinity, Total	56		mg CaCO3/L	2.0	NA	1		06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.114		mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:46	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:53	30,4500NO2-B	DD
Chemical Oxygen Demand	20		mg/I	20	7.0	1	8	06/11/10 06:16	44,410.4	вн
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	47		mg/l	0.50	0.07	1		06/10/10 03:56	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1		06/10/10 21:52	44,300.0	AU
Sulfate	4.3	В	mg/l	1.0	0.12	1	2	06/10/10 21:52	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number: AC001

Report Date:

06/24/10

SAMPLE RESULTS

Lab ID:

L1008586-14

Client ID: Sample Location:

GDUP2-060910-F DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 14:05

Date Received:

06/09/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	32		mg CaCO3/L	20	NA	1	×	06/10/10 09:04	30,2320B	SD
Nitrogen, Ammonia	0.0388	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:47	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/09/10 22:53	30,4500NO2-B	DD
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1		06/11/10 06:16	44,410.4	вн
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	35		mg/l	0.50	0.07	1	+	06/10/10 04:08	44,300.0	AU
Nitrogen, Nitrate	2.4		mg/l	0.50	0.07	10	2	06/11/10 01:14	44,300.0	AU
Sulfate	26		mg/l	1.0	0.12	1	9	06/11/10 00:14	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008586

06/24/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualific	er Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab for s	ample(s): 0	1-14 Ba	tch: WO	3417070-2				
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	1.0	06/09/10 22:46	30,4500NO2-B	DD
Anions by Ion Chromatog	graphy - Westborou	gh Lab for s	ample(s)	: 01-14	Batch: W	/G417086-1			
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	•	06/10/10 18:28	44,300.0	AU
Sulfate	0.96 J	mg/l	1.0	0.12	1		06/10/10 18:28	44,300.0	AU
General Chemistry - Wes	stborough Lab for s	ample(s): 0	1-14 Ba	tch: Wo	G417271-1				
Alkalinity, Total	ND	mg CaCO3	/L 2.0	NA	1	-	06/10/10 09:04	30,2320B	SD
General Chemistry - Wes	stborough Lab for s	ample(s): 0	1-14 Ba	itch: Wo	G417325-1				
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	-	06/11/10 06:10	44,410.4	вн
Anions by Ion Chromato	graphy - Westborou	gh Lab for s	ample(s)): 01-14	Batch: W	/G417542-1			
Chloride	ND	mg/l	0.50	0.07	1		06/10/10 00:32	44,300.0	AU
General Chemistry - Wes	stborough Lab for s	ample(s): 0	1-14 Ba	tch: Wo	3417691-1				
trogen, Ammonia	ND	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:18	30,4500NH3-BH	H AT

Lab Control Sample Analysis Batch Quality Control

SHL TASK 0002 Batch Qu

Lab Number:

L1008586

Report Date:

06/24/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A	ssociated sample(s)	01-14	Batch: WG41	7070-1				
Nitrogen, Nitrite	100		4		90-110	*		20
Anions by Ion Chromatography - Westbor	ough Lab Associate	d sample	(s): 01-14 Ba	tch: WG4	17086-2			
Nitrogen, Nitrate	95		*		90-110	•		
Sulfate	110		*		90-110	ş.		
General Chemistry - Westborough Lab A	ssociated sample(s)	01-14	Batch: WG41	7271-2				
Alkalinity, Total	103				80-115			4
General Chemistry - Westborough Lab A	ssociated sample(s)	01-14	Batch: WG41	7325-2				
Chemical Oxygen Demand	. 80		4.		95-105	+		
Anions by Ion Chromatography - Westbor	ough Lab Associate	d sample	(s): 01-14 Ba	tch: WG4	17542-2			
Chloride	98		5		90-110			
General Chemistry - Westborough Lab A	ssociated sample(s):	01-14	Batch: WG41	7691-2				
Nitrogen, Ammonia	100		2		80-120	Qui		20

Project Name:

Project Number:

AC001

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008586

Report Date:

06/24/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 01-14	QC Batch I	D: WG4	17070-3	QC Sample: L	100858	6-06 Clie	nt ID:	GP-10-	05-015-F
Nitrogen, Nitrite	ND	0.1	0.11	110		ş.i	4		85-115	-		20
Anions by Ion Chromatography Client ID: GP-10-05-015-F	- Westborou	gh Lab Asso	ociated sam	ple(s): 01-14	QC Bat	ch ID: W	G417086-3 WG	417086	-4 QC Sa	mple: I	100858	36-06
Nitrogen, Nitrate	0.64	2	2.6	96		2.6	96		80-122	0		15
Sulfate	9.9	8	17	89		18	101		60-140	10	*	20
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 01-14	QC Batch I	D: WG4	17271-3	QC Sample: L	100858	6-06 Clie	nt ID:	GP-10-0	05-015-F
Alkalinity, Total	18	100	120	103		3	+		86-116	5		4
General Chemistry - Westboro	ugh Lab Asso	ciated samp	ole(s): 01-14	QC Batch I	D: WG4	17325-4	QC Sample: L	100858	6-06 Clie	nt ID:	GP-10-0	05-015-F
Chemical Oxygen Demand	25	238	260	100		-	-		80-120	140		20
Anions by Ion Chromatography Client ID: GP-10-05-015-F	- Westborou	gh Lab Ass c	ociated samp	ple(s): 01-14	QC Bat	ch ID: W	G417542-3 WG	417542	-4 QC Sa	mple: I	100858	86-06
Chloride	19	4	19	0	Q	19	0	Q	40-151	NC		18
General Chemistry - Westboro	ugh Lab Asso	ciated samp	le(s): 01-14	QC Batch I	D: WG4	17691-4	QC Sample: L	1008586	6-06 Clie	nt ID:	GP-10-0	05-015-F
Nitrogen, Ammonia	ND	4	3.85	96		-			80-120			20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number: L1008586

Report Date: 06/24/10

Parameter	Native Sample		Duplicate San	ple Units	Units RPD		RPD Limits
General Chemistry - Westborough Lab Associated same	nple(s): 01-14 Q0	C Batch II	D: WG417070-4	4 QC Sample:	L1008586-06	Client ID:	GP-10-05-015-F
Nitrogen, Nitrite	ND		ND	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Ass 05-015-F	sociated sample(s):	: 01-14	QC Batch ID:	WG417086-5	QC Sample: I	_1008586-0	6 Client ID: GP-10-
Nitrogen, Nitrate	0.64		0.66	mg/l	3		15
Anions by Ion Chromatography - Westborough Lab Ass 05-015-F	sociated sample(s):	: 01-14	QC Batch ID: \	WG417086-5	QC Sample: L	_1008586-0	6 Client ID: GP-10-
Sulfate	9.9		9.6	mg/l	3		20
General Chemistry - Westborough Lab Associated sam	ple(s): 01-14 QC	Batch II	D: WG417271-4	QC Sample:	L1008586-06	Client ID:	GP-10-05-015-F
Alkalinity, Total	18.		19	mg CaCO	3/L 1		4
General Chemistry - Westborough Lab Associated sam	ple(s): 01-14 QC	Batch II	D: WG417325-3	QC Sample:	L1008586-06	Client ID:	GP-10-05-015-F
Chemical Oxygen Demand	25.		22	mg/l	13		20
Anions by Ion Chromatography - Westborough Lab Ass 05-015-F	sociated sample(s):	01-14	QC Batch ID: \	NG417542-5	QC Sample: L	.1008586-06	6 Client ID: GP-10-
Chloride	19.		16	mg/l	17		18
General Chemistry - Westborough Lab Associated sam	ple(s): 01-14 QC	Batch ID	D: WG417691-3	QC Sample:	L1008586-06	Client ID:	GP-10-05-015-F
Nitrogen, Ammonia	0.0356J		ND	mg/l	NC		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586 Report Date: 06/24/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

В	Present/Intact
С	Present/Intact
Α	Present/Intact
D	Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008586-01A	Plastic 250ml unpreserved	Α	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008586-01B	Plastic 500ml HNO3 preserved	Α	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008586-01C	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-01D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28).CL-300(28),NO3- 300(2)
L1008586-01E	Plastic 250ml unpreserved	Α	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008586-02A	Plastic 250ml unpreserved	Α	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008586-02B	Plastic 500ml HNO3 preserved	Α	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008586-02C	Plastic 500ml H2SO4 preserved	Α	≮2	2	· .Y	Present/Intact	COD-410(28),NH3-4500(28) .
L1008586-02D	Plastic 500ml unpreserved	A	- 77	2	Y	Present/Intact	SO4-300(28),CL:-300(28),NO3- 300(2)
L1008586-02E	Plastic 250ml unpreserved	A	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008586-03A	Plastic 250ml unpreserved	A	7	2	Y	Present/Intact	NO2-4500NO2(2)
L1008586-03B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008586-03C	Plastic 500ml H2SO4 preserved	Α	<2	2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-03D	Plastic 500ml unpreserved	A	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)

Project Name: SHL TASK 0002

Lab Number: L1008586

Project Number: AC001

Report Date: 06/24/10

	Container Info	rmation			Temp			
	Container ID	Container Type	Cooler	рН		Pres	Seal	Analysis(*)
	L1008586-03E	Plastic 250ml unpreserved	Α	N/A	2	Y	Present/Intact	ALK-T-2320(14)
	L1008586-04A	Plastic 250ml unpreserved	В	7	3	Y	Present/Intact	NO2-4500NO2(2)
	L1008586-04B	Plastic 500ml HNO3 preserved	В	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
	L1008586-04C	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
	L1008586-04D	Plastic 500ml unpreserved	В	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
	L1008586-04E	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)
	L1008586-05A	Plastic 250ml unpreserved	В	7	3	Y	Present/Intact	NO2-4500NO2(2)
	L1008586-05B	Plastic 500ml HNO3 preserved	В	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
	L1008586-05C	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
	L1008586-05D	Plastic 500ml unpreserved	В	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
	L1008586-05E	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)
	L1008586-06A	Plastic 250ml unpreserved	В	7	3	Y	Present/Intact	NO2-4500NO2(2)
	L1008586-06B	Plastic 500ml HNO3 preserved	С	<2	3	Y	Present/Intact	DOD-FE-6020S(180), DOD-MG- 6020S(180), DOD-MN- 6020S(180), DOD-CA- 6020S(180), DOD-NA- 6020S(180), DOD-AS- 6020S(180), DOD-K-6020S(180)
	L1008586-06C	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
	L1008586-06D	Plastic 500ml unpreserved	В	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
	L1008586-06E	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)
0	L1008586-06F	Plastic 250ml unpreserved .	B .	. 7	- 3-	_ Y	Present/Intact	NO2-4500NO2(2)
-	L1008586-06G	Plastic 500ml HNO3 preserved	В	· <2	3	Y	· Present/Intact	DOD-FE-6020S(180), DOD-MG- 6020S(180), DOD-MN- 6020S(180), DOD-CA- 6020S(180), DOD-NA- 6020S(180), DOD-AS- 6020S(180), DOD-K-6020S(180)
	L1008586-06H	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
	L1008586-06I	Plastic 500ml unpreserved	В	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
	L1008586-06J	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)
	L1008586-07A	Plastic 250ml unpreserved	Α	7	2	Y	Present/Intact	NO2-4500NO2(2)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586 Report Date: 06/24/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008586-07B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008586-07C	Plastic 500ml H2SO4 preserved	C	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-07D	Plastic 500ml unpreserved	Α	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008586-07E	Plastic 250ml unpreserved	Α	N/A	2	Y	Present/Intact	ALK-T-2320(14)
L1008586-08A	Plastic 250ml unpreserved	В	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-08B	Plastic 500ml HNO3 preserved	В	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008586-08C	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-08D	Plastic 500ml unpreserved	В	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008586-08E	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-09A	Plastic 250ml unpreserved	В	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-09B	Plastic 500ml HNO3 preserved	В	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008586-09C	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-09D	Plastic 500ml unpreserved	Α	7	2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008586-09E	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-10A	Plastic 250ml unpreserved	В	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-10B	Plastic 500ml HNO3 preserved	8	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN-
e * * * * * * * * * * * * * * * * * * *		8 V 3	3			- 7	6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008586-10C	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008586-10D	Plastic 500ml unpreserved	В	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008586-10E	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1008586-11A	Plastic 250ml unpreserved	D	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1008586-11B	Plastic 500ml HNO3 preserved	D	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008586 Report Date: 06/24/10

Container Info	ormation			Temp				
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)	
L1008586-11C	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)	
L1008586-11D	Plastic 500ml unpreserved	D	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)	
L1008586-11E	Plastic 250ml unpreserved	D	N/A	3	Y	Present/Intact	ALK-T-2320(14)	
L1008586-12A	Plastic 250ml unpreserved	D	7	3	Y	Present/Intact	NO2-4500NO2(2)	
L1008586-12B	Plastic 500ml HNO3 preserved	D	<2	3	Υ	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)	
L1008586-12C	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)	
L1008586-12D	Plastic 500ml unpreserved	D	7	3	Υ	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)	
L1008586-12E	Plastic 250ml unpreserved	D	N/A	3	Y	Present/Intact	ALK-T-2320(14)	
L1008586-13A	Plastic 250ml unpreserved	D	7	3	Y	Present/Intact	NO2-4500NO2(2)	
L1008586-13B	Plastic 500ml HNO3 preserved	D	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)	
L1008586-13C	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)	
L1008586-13D	Plastic 500ml unpreserved	D	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)	
L1008586-13E	Plastic 250ml unpreserved	D	N/A	3	Y	Present/Intact	ALK-T-2320(14)	
L1008586-14A	Plastic 250ml unpreserved	В	7	3	Y	Present/Intact	NO2-4500NO2(2)	
L1008586-14B	Plastic 500ml HNO3 preserved	В	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)	
L1008586-14C	Plastic 500ml H2SO4 preserved	В	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)	
L1008586-14D	Plastic 500ml unpreserved	- B	7	_ 3	Υ	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)	
L1008586-14E	Plastic 250ml unpreserved	В	N/A	3	Y	Present/Intact	ALK-T-2320(14)	
L1008586-15B	Plastic 500ml HNO3 preserved	A	<2	2	Y	Present/intact	DOD-FE-6020S(180),DOD-MG 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180	

Project Name:

SHL TASK 0002

Lab Number:

L1008586 06/24/10

Project Number:

AC001

Report Date:

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

GLOSSARY

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD Matrix Spike Sample Duplicate: Refer to MS.

NA · Not Applicable.

NC Not Calculated. Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable.

Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. RL The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference. The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD)-Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- -Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable D concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of H sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria.
- Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- Analytical results are from sample re-analysis. R
- RE - Analytical results are from sample re-extraction.

DU Report with "J" Qualifiers Report Format:



Project Name: SHL TASK 0002 Lab Number: L1008586

Project Number: AC001 Report Date: 06/24/10

Data Qualifiers

 Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name:

SHL TASK 0002

Lab Number:

L1008586

Project Number:

AC001

Report Date:

06/24/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

DLPHA

Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate, Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitrosamines, Nitrosamines, Notario & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.) Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity, Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1, Organic Parameters 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters, EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500NH3-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1, Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180, 1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B.

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colillert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504 1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1,

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B

Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15.426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14.510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B, Organic Parameters: EPA

8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited*. *Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7,3,3,2, EPA 7,3,4,2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. **NELAP Accredited via NY-DOH.**Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited*. *Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

	CHAIN C	F CUS	TO	DY P	AGE	OF_2	Date	Rec'd i	in Lab		10/0	1110)	ALPH	1A JOB#: L100 85	80
WESTBORO, MA	MANSFIELD, MA	Project I	nformat	ion			Rep	ort Inf	orma	tion - Da	ata De	liverat	les	Billin	g Information	
TEL 508-898-9220 FAX: 508-898-0103	TEL: 508-822-9300 FAX: 508-822-3288	Project Nar	me: 5/	4L Tas	4 0002		DE	ΑX		Ø EMA				☐ Sam	e as Client Info PO#:	
Client Information	on	Project Loc	ation: ()even's	MA		DA	4.78		□ Add'l	- Per CTV	10.00				
Client: Sovereis	n Consitting Die	Project #:					222			irement						
	South Main St	Project Mar	nager: P	hil McB.	ain			Fed P			0=0			_	E QAPP	2070
Mansfield.	MA 02048	ALPHA Qu	iote #:					-			-			Treasure.	ONABLE CONFIDENCE PI	KOTO -
Phone: 508-3: Fax: 508-33 Email: pmcbainc	39- 3206	Turn-Arc	ound Tir	ne			The state of the s	s 🗆 i		Are MCF					? SDG? (If yes see note in Comr	nents).
Fax: 508-33	9- 3248	₩ Standard		d Dillen			□ Ye	s XI	Vo .	Are CT F	RCP (R	easonal	ole Conf	idence l	Protocols) Required?	
Email: prichains	a Sev Con. Com	All others		As 24 hr	TAT Time:	pproved()	0	1	1	1-1	1	1	1	11	111	
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.ALPHA Lab ID (Lab Use Only)	Sample ID		Coll Date	ection - Time	Sample Matrix	Sampler's Initials	Mekls	E/.	Alles A	1 2	/	11	1	11	(Please specific Commer	ts
586-1	GP-10-04-054-F	6	18/10	1550	GW	POV	V	1	1	1						5
2	GP-10-04-064-F	6	18/10	1625	GW	POV	1	1	V	V						3
3	GP-10-04-074-F	6,	18/10	1715	6W	PJV	1	10	11	V						3
4	68-10-04-084-F	6,	18/10	1750	GW	POV	V.	10	V	V		5		1		2
	GP-10-04-094-F	6,	18/10	1830	GW	POV	V	VV	11	1/						, 5
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7	GP-10-05-025-F	6,				1	V		1	V	,					3
7 8 9	GP-10-05-025-F GP-10-65-035-F	6,	19/16	1053	GW	PJV	V V V		11	V	x		Ĭ.			3
7 8 9 10	GP-10-05-025-F GP-10-05-035-F GP-10-05-045-F	6,	19/10	1053	GW GW GW	62N	PI	VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	V V V P D	VVVV	х.		ì		Please print clearly: legibly a pletely. Samples can not be	S S sind com-

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FAX: 508-898-9220	TEL: 508-822-9300 FAX: 508-822-3288	Project Name: 5	THL TO	ash ow	2	1	LI FAX			MAIL	Maria Maria		□ Sa	ame as Client info PO#:	1
lient Information	on	Project Location:	Deven	s MA	1		J ADE			dd'i Del					
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nail: pmebain	@ soutan. com	All others	As 24 hr	TAT	ηρριονέση	Γ	60	1-1	1	11	7	1-1	11	111	7 0
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SDGH 13.	Metals :	= As, Ca, Fe, Na	K, Ma, A	Sample	Sampler	1/	1 (18) 1 (18) 1	121, 400 K	100 K	12	11	//	//	Preservation ☐ Lab to do (Pease specify below)	0 1
Lab Use Only)	Sample ID	Date	Time	Matrix	Initials	1 5	10	1	44	1	1	11	11	Sample Specific Comment	s s
11 38	GP-10-05A-039-F	6/4/10	1405	GW	P5V	V	W	VV	IV				100		5
12	GP-10-05A-049-F	6/9/10	1455	GW	POV	, V	1/	1	1						5
13	GDUP-060910-F	6/9/10	1025	GW	POV	V	V	Vi	1						5
7	6DUP2-060910-F	6/4/10	1405	GW	PSV	V	10	11	10		1				5
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M NO: 01-01 (rev. 18-Ja	an-2010) The f	a-		6/9/10	1715	1	u	ne	ea	LL	. (2/9/	101	7 /566 reverse side.	Раде



ANALYTICAL REPORT

Lab Number:

L1008682

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

06/29/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SHL TASK 0002

Lab Number: L1008682 **Project Number:** AC001 Report Date: 06/29/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008682-01	GP-10-05A-059-F	DEVENS, MA	06/09/10 15:57
L1008682-02	GP-10-05A-069-F	DEVENS, MA	06/09/10 17:15
L1008682-03	GP-10-05A-079-F	DEVENS, MA	06/09/10 18:45
L1008682-04	GP-10-05A-089-F	DEVENS, MA	06/09/10 19:20
L1008682-05	GP-10-05A-099-F	DEVENS, MA	06/09/10 19:40
L1008682-06	GP-10-05A-109-F	DEVENS, MA	06/09/10 20:10
L1008682-07	GP-10-03-029-F	DEVENS, MA	06/10/10 08:25
L1008682-08	GP-10-03-039-F	DEVENS, MA	06/10/10 09:20
L1008682-09	GP-10-03-049-F	DEVENS, MA	06/10/10 10:00
L1008682-10	GP-10-03-059-F	DEVENS, MA	06/10/10 10:40
L1008682-11	GP-10-03-069-F	DEVENS, MA	06/10/10 11:20
L1008682-12	GDUP-061010-F	DEVENS, MA	06/10/10 09:20
L1008682-13	GDUP2-061010-F	DEVENS, MA	06/10/10 11:20
L1008682-14	RB-061010-U	DEVENS, MA	06/10/10 13:30

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008682

Report Date:

06/29/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Dissolved Metals

L1008682-08, -10, -11 and -12 have elevated detection limit for all analytes due to the dilution required by the high concentrations of non-target analytes. The requested reporting limit for Arsenic was not achieved for

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008682

Report Date:

06/29/10

Case Narrative (continued)

samples L1008682-08, -10 and -12.

L1008682-09 and -13 have elevated detection limit for all analytes due to the dilution required by the high concentrations of target analytes. The requested reporting limit for Arsenic was not achieved for L1008682-09. The WG417375-3/-4 MS/MSD recoveries, performed on L1008682-07, are above the acceptance criteria for Calcium (138%/122%). A post digestion spike was performed with an unacceptable recovery of 300%. The parent sample (L1008682-07) should be qualified as "J".

The WG417375-3 MS recovery for Sodium (150%), performed on L1008682-07, is invalid because the sample concentration is greater than four times the spike amount added. The WG417375-3/-4 MS/MSD RPD, associated with L1008682-07, is above the acceptance criteria for Sodium (40%); the parent sample (L1008286-07) is qualified with a "J" for Sodium.

Chloride

L1008682-05 through -13 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

Nitrate

L1008682-01 through -04, -06 through -10 and -12 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

L1008682-01 through -06 were analyzed with the method required holding time exceeded.

Sulfate

L1008682-01 through -13 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

Date: 06/29/10

METALS



Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-01

Client ID:

GP-10-05A-059-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 15:57

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.39	J	ug/l	0.500	0.113	1	06/11/10 08:00	0 06/11/10 15:53	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	17700		ug/l	100	12.6	1	06/11/10 08:00	0 06/11/10 15:53	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1840		ug/l	50.0	8.41	1	06/11/10 08:00	0 06/11/10 15:53	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	2060		ug/l	100	4.10	1	06/11/10 08:00	0 06/11/10 15:53	EPA 3005A	1,6020A	вм
Manganese, Dissolved	214		ug/I	1.00	0.136	1	06/11/10 08:0	0 06/11/10 15:53	EPA 3005A	1,6020A	вм
Potassium, Dissolved	1980		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 15:53	EPA 3005A	1,6020A	вм
Sodium, Dissolved	24200		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 15:53	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008682

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-02

Client ID:

GP-10-05A-069-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 17:15

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.590		ug/l	0.500	0.113	1	06/11/10 08:00	0 06/11/10 16:10	EPA 3005A	1,6020A	вм
Calcium, Dissolved	19400		ug/l	100	12.6	1	06/11/10 08:00	0 06/11/10 16:10	EPA 3005A	1,6020A	вм
Iron, Dissolved	797		ug/l	50.0	8.41	1	06/11/10 08:00	0 06/11/10 16:10	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	2340		ug/I	100	4.10	1	06/11/10 08:00	0 06/11/10 16:10	EPA 3005A	1,6020A	вм
Manganese, Dissolved	466		ug/I	1.00	0.136	3	06/11/10 08:00	0 06/11/10 16:10	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	1880		ug/I	100	18.2	10	06/11/10 08:00	0 06/11/10 16:10	EPA 3005A	1,6020A	вм
Sodium, Dissolved	22200		ug/l	100	18.2	1	06/11/10 08:00	0 06/11/10 16:10	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008682

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID: Client ID: L1008682-03 GP-10-05A-079-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 18:45

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	2.18		ug/l	0.500	0.113	1	06/11/10 08:0	0 06/11/10 16:16	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	16500		ug/l	100	12.6	1	06/11/10 08:0	0 06/11/10 16:16	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	57.9		ug/I	50.0	8.41	1	06/11/10 08:0	0 06/11/10 16:16	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	1940		ug/l	100	4.10	1	06/11/10 08:0	0 06/11/10 16:16	EPA 3005A	1,6020A	вм
Manganese, Dissolved	114		ug/l	1.00	0.136	1	06/11/10 08:0	0 06/11/10 16:16	EPA 3005A	1,6020A	вм
Polassium, Dissolved	1550		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 16:16	EPA 3005A	1,6020A	вм
Sodium, Dissolved	17700		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 16:16	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number: AC001 Report Date:

06/29/10

SAMPLE RESULTS

Lab ID: Client ID: L1008682-04

GP-10-05A-089-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/09/10 19:20

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	5.09		ug/l	0.500	0.113	-1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	20000		ug/l	100	12.6	-1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	467		ug/I	50.0	8.41	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	1990		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	вм
Manganese, Dissolved	70.3		ug/l	1.00	0.136	*	06/11/10 08:00	0 06/11/10 16:22	EPA 3005A	1,6020A	вм
Potassium, Dissolved	1940		ug/l	100	18.2	1	06/11/10 08:00	0 06/11/10 16:22	EPA 3005A	1,6020A	вм
Sodium, Dissolved	17800		ug/I	100	18.2	1	06/11/10 08:00	06/11/10 16:22	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-05

Client ID:

GP-10-05A-099-F

Sample Location: Matrix:

DEVENS, MA

Water

Date Collected:

06/09/10 19:40

Date Received:

06/10/10

Field Prep:

00/10/10 Car Nametic

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	4.16		ug/l	0.500	0.113	1	06/11/10 08:0	0 06/11/10 16:28	EPA 3005A	1,6020A	вм
Calcium, Dissolved	65800		ug/l	100	12.6	1	06/11/10 08:0	0 06/11/10 16:28	EPA 3005A	1,6020A	вм
Iron, Dissolved	558		ug/l	50.0	8.41	1	06/11/10 08:0	0 06/11/10 16:28	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	5740		ug/l	100	4.10	1	06/11/10 08:0	0 06/11/10 16:28	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	294		ug/l	1.00	0.136	1	06/11/10 08:0	0 06/11/10 16:28	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	4190		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 16:28	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	30800		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 16:28	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008682

Report Date:

06/29/10

Lab ID:

L1008682-06

Client ID:

GP-10-05A-109-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/09/10 20:10

Date Received:

06/10/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	1.92		ug/l	0.500	0.113	1	06/11/10 08:0	0 06/11/10 16:34	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	111000		ug/l	100	12.6	1	06/11/10 08:0	0 06/11/10 16:34	EPA 3005A	1,6020A	ВМ
Iran, Dissolved	3730		ug/l	50.0	8.41	1	06/11/10 08:00	0 06/11/10 16:34	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	13500		ug/l	100	4.10	1	06/11/10 08:0	0 06/11/10 16:34	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	1320		ug/l	1.00	0.136	1	06/11/10 08:0	0 06/11/10 16:34	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	6990		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 16:34	EPA 3005A	1,6020A	вм
Sodium, Dissolved	104000		ug/l	100	18.2	1	06/11/10 08:0	0 06/11/10 16:34	EPA 3005A	1,6020A	вм

SAMPLE RESULTS

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-07

Client ID:

GP-10-03-029-F

Sample Location:

DEVENS, MA

Matrix:

Sodium, Dissolved

Water

126000

Date Collected:

06/10/10 08:25

Date Received:

06/11/10 08:00 06/11/10 16:46 EPA 3005A

06/10/10

Field Prep:

See Narrative

BM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.500		ug/l	0.500	0.113	1	06/11/10 08:0	0 06/11/10 16:46	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	27400	J	ug/l	100	12.6	1	06/11/10 08:0	0 06/11/10 16:46	EPA 3005A	1,6020A	вм
Iron, Dissolved	582		ug/l	50.0	8.41	1	06/11/10 08:0	0 06/11/10 16:46	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	3580		ug/l	100	4.10	1	06/11/10 08:0	0 06/11/10 16:46	EPA 3005A	1,6020A	вм
Manganese, Dissolved	71.0		ug/l	1.00	0.136	1	06/11/10 08:0	0 06/11/10 16:46	EPA 3005A	1,6020A	вм
Potassium, Dissolved	2900		ug/I	100	18.2	1	06/11/10 08:0	0 06/11/10 16:46	EPA 3005A	1,6020A	вм

18.2

100

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008682

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-08

Client ID: Sample Location: GP-10-03-039-F DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 09:20

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	0.61	j	ug/l	2.00	0.452	4	06/11/10 08:00	0 06/11/10 17:22	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	76800		ug/l	400	50.6	4	06/11/10 08:00	0 06/11/10 17:22	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	704		ug/l	200	33,6	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	9840		ug/l	400	16.4	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	вм
Manganese, Dissolved	59.8		ug/l	4.00	0.544	4	06/11/10 08:00	06/11/10 17:22	EPA 3005A	1,6020A	вм
Potassium, Dissolved	4660		ug/l	400	72.6	4	06/11/10,08:00	0 06/11/10 17:22	EPA 3005A	1,6020A	вм
Sodium, Dissolved	312000		ug/l	400	72.8	4	06/11/10 08:00	0 06/11/10 17:22	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

Sample Location:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-09

Client ID:

GP-10-03-049-F DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 10:00

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	ND		ug/l	2.50	0.565	5	06/11/10 08:00	0 06/11/10 17:28	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	110000		ug/l	500	63.3	5	06/11/10 08:00	0 06/11/10 17:28	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1580		ug/l	250	42.0	5	06/11/10 08:0	0 06/11/10 17:28	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	12900		ug/l	500	20.5	5	06/11/10 08:0	0 06/11/10 17:28	EPA 3005A	1,6020A	вм
Manganese, Dissolved	62.9		ug/l	5.00	0.680	5	06/11/10 08:0	0 06/11/10 17:28	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	6040		ug/l	500	90.8	5	06/11/10 08:0	0 06/11/10 17:28	EPA 3005A	1,6020A	вм
Sodium, Dissolved	471000		ug/l	500	91.0	5	06/11/10 08:0	0 06/11/10 17:28	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-10

G

Date Collected:

06/10/10 10:40

Client ID:

GP-10-03-059-F

Date Received:

06/10/10

Sample Location:

DEVENS, MA

Field Prep:

See Narrative

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - \	Westboro	ugh Lab									
Arsenic, Dissolved	0.92	J	ug/l	4.00	0.904	8	06/11/10 08:00	0 06/11/10 17:34	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	103000		ug/l	800	101.	8	06/11/10 08:00	0 06/11/10 17:34	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	5210		ug/l	400	67.3	8	06/11/10 08:00	0 06/11/10 17:34	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	11400		ug/l	800	32.8	8	06/11/10 08:00	0 06/11/10 17:34	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	254		ug/l	8.00	1.09	8	06/11/10 08:00	0 06/11/10 17:34	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	7040		ug/l	800	145.	8	06/11/10 08:00	06/11/10 17:34	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	598000		ug/I	800	146.	8	06/11/10 08:00	0 06/11/10 17:34	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

Sample Location:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-11

Client ID:

GP-10-03-069-F DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 11:20

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	3.47		ug/l	2.00	0.452	4	06/11/10 08:0	0 06/11/10 17:40	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	224000		ug/I	400	50.6	4	06/11/10 08:0	0 06/11/10 17:40	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	7530		ug/l	200	33.6	4	06/11/10 08:0	0 06/11/10 17:40	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	29200		ug/l	400	16.4	4	06/11/10 08:0	0 06/11/10 17:40	EPA 3005A	1,6020A	вм
Manganese, Dissolved	633		ug/l	4.00	0.544	4	06/11/10 08:0	0 06/11/10 17:40	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	9380		ug/l	400	72.6	4	06/11/10 08:0	0 06/11/10 17:40	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	456000		ug/l	400	72,8	4	06/11/10 08:0	0 06/11/10 17:40	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-12

Client ID: Sample Location: GDUP-061010-F DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 09:20

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	ND		ug/l	2.00	0.452	4	06/11/10 08:00	0 06/11/10 17:46	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	83800		ug/l	400	50.6	4	06/11/10 08:00	0 06/11/10 17:46	EPA 3005A	1,6020A	вм
Iron, Dissolved	790		ug/I	200	33.6	4	06/11/10 08:00	06/11/10 17:46	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	10900		ug/l	400	16.4	4	06/11/10 08:00	0 06/11/10 17:46	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	68.4		ug/l	4.00	0.544	4	06/11/10 08:00	0 06/11/10 17:46	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	5010		ug/l	400	72.6	4	06/11/10 08:00	0 06/11/10 17:46	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	345000		ug/l	400	72.8	4	06/11/10 08:00	0 06/11/10 17:46	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-13

Client ID:

GDUP2-061010-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 11:20

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	3.85		ug/l	2.50	0.565	5	06/11/10 08:00	0 06/11/10 17:52	EPA 3005A	1,6020A	вм
Calcium, Dissolved	252000		ug/I	500	63.3	5	06/11/10 08:00	0 06/11/10 17:52	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	8210		ug/l	250	42.0	5	06/11/10 08:0	0 06/11/10 17:52	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	32700		ug/l	500	20.5	5	06/11/10 08:0	0 06/11/10 17:52	EPA 3005A	1,6020A	вм
Manganese, Dissolved	710		ug/l	5.00	0.680	5	06/11/10 08:0	0 06/11/10 17:52	EPA 3005A	1,6020A	вм
Potassium, Dissolved	10500		ug/i	500	90.8	5	06/11/10 08:0	0 06/11/10 17:52	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	502000		ug/l	500	91.0	5	06/11/10 08:0	0 06/11/10 17:52	EPA 3005A	1,6020A	ВМ

Project Name: **Project Number:**

Sample Location:

SHL TASK 0002

AC001

Lab Number:

L1008682

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-14

Client ID:

RB-061010-U DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 13:30

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Arsenic, Dissolved	ND		ug/l	0.500	0.113	4	06/11/10 08:0	0 06/11/10 17:58	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	123		ug/l	100	12.6	+	06/11/10 08:0	0 06/11/10 17:58	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	ND		ug/I	50.0	8.41	1	06/11/10 08:0	0 06/11/10 17:58	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/11/10 08:0	0 06/11/10 17:58	EPA 3005A	1,6020A	вм
Manganese, Dissolved	ND		ug/l	1.00	0.136	1	06/11/10 08:0	0 06/11/10 17:58	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	ND		ug/l	100	18.2	7	06/11/10 08:0	0 06/11/10 17:58	EPA 3005A	1,6020A	вм
Sodium Dissolved	51.1	ď	ug/l	100	18.2	1	06/11/10 08:0	0.06/11/10 17:58	FPA 3005A	1.6020A	BM

Project Name:

SHL TASK 0002

Lab Number:

L1008682 06/29/10

Project Number: AC001

Report Date:

Method Blank Analysis **Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westbo	orough Lal	b for samp	ole(s): 01	-14 Ba	tch: W	G417375-1				
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	06/11/10 08:00	06/11/10 15:41	1,6020A	вм
Calcium, Dissolved	37.5	J	ug/l	100	12.6	1	06/11/10 08:00	06/11/10 15:41	1,6020A	вм
Iron, Dissolved	ND		ug/l	50.0	8.41	1	06/11/10 08:00	06/11/10 15:41	1,6020A	вм
Magnesium, Dissolved	ND		ug/l	100	4.10	1	06/11/10 08:00	06/11/10 15:41	1,6020A	вм
Manganese, Dissolved	ND		ug/l	1.00	0.136	1	06/11/10 08:00	06/11/10 15:41	1,6020A	вм
Potassium, Dissolved	ND		ug/l	100	18.2	1	06/11/10 08:00	06/11/10 15:41	1,6020A	вм
Sodium, Dissolved	24.6	J	ug/l	100	18.2	1	06/11/10 08:00	06/11/10 15:41	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008682

Report Date:

LCS: %Recovery	Qual			Qual	%Recovery Limits	RPD	Qual	RPD Limits
Associated sample(s):	01-14	Batch: V	WG41737	5-2				
100					80-120			
104 '					80-120			
107		-			80-120			
					80-120	*		
					80-120			
101		1.4			80-120	-		
106					80-120	-		
	%Recovery Associated sample(s): 100 104 107 89 105 101	%Recovery Qual Associated sample(s): 01-14 100 104 107 89 105 101	%Recovery Qual %Recovery Associated sample(s): 01-14 Batch: 0 100	%Recovery Qual %Recovery Associated sample(s): 01-14 Batch: WG41737 100 -	%Recovery Qual %Recovery Qual Associated sample(s): 01-14 Batch: WG417375-2 100 - - 104 - - 107 - - 89 - - 105 - - 101' - -	%Recovery Qual %Recovery Qual Limits Associated sample(s): 01-14 Batch: WG417375-2 100 - 80-120 104 - 80-120 107 - 80-120 39 - 80-120 105 - 80-120 101 - 80-120	%Recovery Qual %Recovery Qual Limits RPD Associated sample(s): 01-14 Batch: WG417375-2 100 - 80-120 - 104 - 80-120 - 107 - 80-120 - 89 - 80-120 - 105 - 80-120 - 101 - 80-120 -	%Recovery Qual %Recovery Qual Limits RPD Qual Associated sample(s): 01-14 Batch: WG417375-2 80-120 - - 100 - - 80-120 - </td

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008682

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westbord 10-03-029-F	ough Lab Assoc	iated sample	e(s): 01-14	QC Batch ID	: WG41	7375-3 W	3417375-4 Q	C Samp	ole: L100868	32-07	Client	ID: GF
Arsenic, Dissolved	0.500	120	135	112		128	107		80-120	5		20
Calcium, Dissolved	27400	10000	41200	138	Q	39600	122	Q	80-120	12		20
Iron, Dissolved	582	1000	1720	114		1640	106		80-120	7		20
Magnesium, Dissolved	3580	10000	14100	105		13700	101		80-120	4		20
Manganese, Dissolved	71.0	500	622	110		604	107		80-120	3		20
Potassium, Dissolved	2900	10000	13600	107		13000	101		80-120	6		20
Sodium, Dissolved	126000	10000	141000	150		136000	100		80-120	40	Q	20

INORGANICS & MISCELLANEOUS

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-01

Client ID:

GP-10-05A-059-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/09/10 15:57

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab								
Alkalinity, Total	44	mg CaCO3	/L 2.0	NA	1		06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.092	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:56	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1		06/10/10 21:51	30,4500NO2-B	DD
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	- 5-	06/14/10 12:10	44,410.4	DW
Anions by Ion Chromatog	graphy - West	borough Lab							
Chloride	43	mg/l	0.50	0.07	1	-	06/20/10 17:07	44,300.0	AU
Nitrogen, Nitrate	0.72	mg/l	0.10	0.01	2	-	06/11/10 20:06	44,300.0	AU
Sulfate	13	mg/l	2.0	0.23	2		06/23/10 15:37	44,300.0	AU

Project Name: SHL TASK 0002 Lab Number:

L1008682

Project Number: AC001

Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: Client ID:

L1008682-02 GP-10-05A-069-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 17:15

Date Received:

06/10/10

Field Prep:

Date epared	Date Analyzed	Analytical Method	Analyst

Parameter	Result	Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	49		mg CaCO3/L	2.0	NA	1		06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0442	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:57	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/10/10 21:52	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	3	06/14/10 12:10	44,410.4	DW
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	30		mg/l	0.50	0.07	1		06/20/10 17:19	44,300.0	AU
Nitrogen, Nitrate	1.2		mg/l	0.25	0.04	5		06/11/10 20:18	44,300.0	AU
Sulfate	14		mg/l	2.0	0.23	2		06/23/10 15:49	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-03 GP-10-05A-079-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 18:45

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	54		mg CaCO3/L	2.0 .	NA	1		06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.042	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:58	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/10/10 21:53	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1		06/14/10 12:10	44,410.4	DW
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	22		mg/l	0.50	0.07	1	4	06/20/10 17:31	44,300.0	AU
Nitrogen, Nitrate	1.0		mg/f	0.25	0.04	5		06/11/10 20:30	44,300.0	AU
Sulfate	10		mg/l	2.0	0.23	2		06/23/10 16:01	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1008682

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID: Client ID: L1008682-04 GP-10-05A-089-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 19:20

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	i.								
Alkalinity, Total	55		mg CaCO3/L	2.0	NA	1	2	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0325	J	mg/l	0.075	0,025	1	06/16/10 23:30	06/17/10 21:59	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/10/10 21:53	30,4500NO2-B	DD
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1	5.1	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	21		mg/I	0.50	0.07	1	2.	06/20/10 17:43	44,300.0	AU
Nitrogen, Nitrate	1.0		mg/l	0.25	0.04	5	-	06/11/10 20:42	44,300.0	AU
Sulfate	8.9		mg/l	2.0	0.23	2	+	06/23/10 17:01	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number:

L1008682 06/29/10

Report Date: Project Number: AC001

SAMPLE RESULTS

Lab ID:

L1008682-05 GP-10-05A-099-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 19:40

Date Received:

06/10/10

See Narrative Field Prep:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)							
Alkalinity, Total	170	mg CaCO3/L	2.0	NA	1	1	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.082	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:00	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1		06/10/10 21:54	30,4500NO2-B	DD
Chemical Oxygen Demand	ND	mg/l	20	7.0	1		06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatog	graphy - West	borough Lab							
Chloride	56	mg/l	1.0	0.13	2	-4	06/20/10 17:55	44,300.0	AU
Nitrogen, Nitrate	0.26	mg/l	0.05	0.01	1		06/11/10 20:54	44,300.0	AU
Sulfate	24	mg/l	5.0	0.59	5	*	06/23/10 17:13	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-06

Client ID: Sample Location: GP-10-05A-109-F DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 20:10

Date Received:

06/10/10

Field Prep:

ate	Date	Analytical	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)								
Alkalinity, Total	270		mg CaCO3/L	2.0	NA	1		06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.154		mg/l	0,075	0.025	1	06/16/10 23:30	06/17/10 22:00	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		06/10/10 21:54	30,4500NO2-B	DD
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1	+1	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	140		mg/l	2.5	0.33	5	2	06/20/10 18:07	44,300.0	AU
Nitrogen, Nitrate	1.0		mg/l	0.25	0.04	5	4.	06/11/10 21:06	44,300.0	AU
Sulfate	30		mg/l	5.0	0.59	5		06/23/10 17:25	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID: Client ID: L1008682-07 GP-10-03-029-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 08:25

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Alkalinity, Total	46		mg CaCO3/L	2.0	NA	1	Pe	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0326	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:04	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0 002	1		06/10/10 21:54	30,4500NO2-B	DD
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	4	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	210		mg/l	4.0	0.52	8	4 1	06/20/10 18:19	44,300 0	AU
Nitrogen, Nitrate	1.4		mg/l	0.25	0.04	5	4	06/11/10 21:18	44,300.0	AU
Sulfate	48		mg/l	10	1.2	10		06/23/10 21:15	44,300.0	AU

Project Name: SHL TASK 0002 Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-08 GP-10-03-039-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 09:20

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	6								
Alkalinity, Total	65		mg CaCO3/L	2.0	NA	1	1	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.046	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:06	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	4		06/10/10 21:55	30,4500NO2-B	DD
Chemical Oxygen Demand	27		mg/I	20	7.0	1	-	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	600		mg/l	25	3.3	50	4.0	06/20/10 19:31	44,300.0	AU
Nitrogen, Nitrate	4.4		mg/l	1.0	0.14	20		06/11/10 22:30	44,300.0	AU
Sulfate	31		mg/l	5.0	0.59	5		06/23/10 17:37	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-09

Client ID: Sample Location:

GP-10-03-049-F DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 10:00

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifie	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	j.								
Alkalinity, Total	53		mg CaCO3/L	2.0	NA	1	+	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0287	J	mg/l	0.075	0.025	1.	06/16/10 23:30	06/17/10 22:07	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	de l	06/10/10 21:56	30,4500NO2-B	DD
Chemical Oxygen Demand	38		mg/l	20	7.0	1	4	06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	870		mg/l	25	3.3	50		06/20/10 19:43	44,300.0	AU
Nitrogen, Nitrate	0,58		mg/l	0.10	0.01	2	100	06/11/10 22:42	44,300.0	AU
Sulfate	49		mg/l	10	1.2	10		06/23/10 21:27	44,300.0	AU

L1008682

Project Name: SHL TASK 0002

Lab Number:

Project Number: AC001 Report Date: 06/29/10

SAMPLE RESULTS

Lab ID: L1008682-10 Client ID: GP-10-03-059-F

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 06/10/10 10:40
Date Received: 06/10/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - West	borough Lab	i.								
Alkalinity, Total	110		mg CaCO3/L	2.0	NA	1		06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.0264	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:08	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	4	06/10/10 21:57	30,4500NO2-B	DD
Chemical Oxygen Demand	47		mg/l	20	7.0	1		06/14/10 12:11	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	1100		mg/l	25	3.3	50		06/20/10 19:55	44,300,0	AU
Nitrogen, Nitrate	0.63		mg/l	0.10	0.01	2	100	06/11/10 22:54	44,300 0	AU
Sulfate	35		mg/I	5.0	0.59	5		06/23/10 17:49	44,300.0	AU

Project Name: SHL TASK 0002

L TASK 0002

Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-11 GP-10-03-069-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 11:20

Date Received:

06/10/10

Field Prep:

06/10/10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Alkalinity, Total	100		mg CaCO3/L	2.0	NA	1		06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	0.031	J	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:09	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	:1	*	06/10/10 21:58	30,4500NO2-B	DD
Chemical Oxygen Demand	43		mg/l	20	7.0	1	-	06/14/10 12:12	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	1200		mg/l	25	3.3	50	11.5	06/20/10 20:07	44,300.0	AU
Nitrogen, Nitrate	0.02	J	mg/l	0.05	0,01	1	20	06/11/10 23:06	44,300.0	AU
Sulfate	38		mg/l	5.0	0.59	5		06/23/10 18:01	44,300.0	AU

Project Name: SHL TASK 0002 Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-12 GDUP-061010-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 09:20

Date Received:

06/10/10

See Narrative Field Prep:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab)							
Alkalinity, Total	65	mg CaCO3/L	2.0	NA	1	4	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	ND	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 22:10	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	*	06/10/10 21:58	30,4500NO2-B	DD
Chemical Oxygen Demand	22	mg/I	20	7.0	1		06/14/10 12:12	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough Lab							
Chloride	620	mg/l	25	3.3	50	100	06/20/10 20:19	44,300.0	AU
Nitrogen, Nitrate	4.3	mg/I	1.0	0.14	20		06/11/10 23:30	44,300.0	AU
Sulfate	33	mg/l	5.0	0.59	5	18	06/23/10 18:13	44,300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number: AC001

Report Date:

06/29/10

SAMPLE RESULTS

Lab ID:

L1008682-13 GDUP2-061010-F

06/10/10 11:20

Client ID: Sample Location: DEVENS, MA

Matrix:

Water

Date Collected: 06/10/10 Date Received: See Narrative Field Prep:

Parameter	Result	Qualifier Un	its RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab								
Alkalinity, Total	100	mg Ca	CO3/L 2.0	NA	1	+	06/14/10 09:45	30,2320B	SD
Nitrogen, Ammonia	ND	mg	9/1 0.07	0.025	1	06/16/10 23:30	06/17/10 22:11	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg	g/I 0.02	0.002	1		06/10/10 21:59	30,4500NO2-B	DD
Chemical Oxygen Demand	47	mę	g/l 20	7.0	1	6	06/14/10 12:12	44,410.4	DW
Anions by Ion Chromatog	raphy - West	borough Lab							
Chloride	1200	mg	g/l 25	3.3	50	*	06/20/10 20:31	44,300.0	AU
Nitrogen, Nitrate	0.024	J mg	g/I 0.05	0.01	1	- 2	06/11/10 23:18	44,300.0	AU
Sulfate	38	mg	g/I 5.0	0.59	5	*	06/23/10 18:25	44,300.0	AU

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008682

Report Date:

06/29/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lab for sa	mple(s): 01	-13 Ba	tch: WC	9417301-2				
Nitrogen, Nitrite	ND	mg/l	0 02	0.002	1		06/10/10 21:50	30,4500NO2-B	DD
Anions by Ion Chromato	graphy - Westboroug	h Lab for sa	ample(s)	: 01-13	Batch: W	VG417324-1			
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	+	06/11/10 19:42	44,300.0	AU
General Chemistry - We	estborough Lab for sa	mple(s): 01	-13 Ba	tch: WC	6417683-1				
Nitrogen, Ammonia	ND	mg/l	0.075	0.025	1	06/16/10 23:30	06/17/10 21:42	30,4500NH3-BH	AT AT
General Chemistry - We	stborough Lab for sa	mple(s): 01	-13 Ba	tch: WC	6417703-1				
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	-	06/14/10 12:10	44,410.4	DW
General Chemistry - We	stborough Lab for sa	imple(s): 01	-13 Ba	tch: WC	6417869-1				
Alkalinity, Total	ND	mg CaCO3/I	2.0	NA	1	.9	06/14/10 09:45	30,2320B	SD
Anions by Ion Chromato	graphy - Westboroug	h Lab for sa	ample(s)	: 01-13	Batch: W	VG418939-1			
Chloride	ND	mg/l	0.50	0,07	1	+	06/20/10 16:43	44,300.0	AU
nions by Ion Chromato	graphy - Westboroug	h Lab for sa	ample(s)	: 01-13	Batch: V	VG419578-1			
Sulfate	0.48 J	mg/l	1.0	0.12	1	*	06/23/10 12:49	44,300.0	AU

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008682

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s)	: 01-13	Batch: WG41	7301-1				
Nitrogen, Nitrite	100		3		90-110	2		20
Anions by Ion Chromatography - Westb	orough Lab Associate	ed sample	e(s): 01-13 Ba	itch: WG4	117324-2			
Nitrogen, Nitrate	102		2		90-110	*		
General Chemistry - Westborough Lab	Associated sample(s)	: 01-13	Batch: WG41	7683-2				
Nitrogen, Ammonia	.97		-4		80-120	:5:		20
General Chemistry - Westborough Lab	Associated sample(s)	: 01-13	Batch: WG41	7703-2				
Chemical Oxygen Demand	99		ē		95-105	*		
General Chemistry - Westborough Lab	Associated sample(s)	: 01-13	Batch: WG41	7869-2				
Alkalinity, Total	102		*		80-115	-		4
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample	e(s): 01-13 Ba	tch: WG4	18939-2			
Chloride	108		3		90-110			
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample	e(s): 01-13 Ba	tch: WG4	19578-2			
Sulfate	98		3		90-110	44		

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008682

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recovery Qual Limits		RPD Qual Limits
General Chemistry - Westborou	igh Lab Asso	ociated samp	ole(s): 01-13	QC Batch I	D: WG417301-3	QC Sample: L	.1008682-07 Cli	ent ID:	GP-10-03-029-F
Nitrogen, Nitrite	ND	0.1	0.10	100	4		85-115	2	20
Anions by Ion Chromatography Client ID: GP-10-03-029-F	- Westborou	igh Lab Ass o	ociated sam	ple(s): 01-13	QC Batch ID: W	G417324-3 WG	6417324-4 QC S	ample: I	_1008682-07
Nitrogen, Nitrate	1.4	4	5.9	112	0.55	101	80-122	10	15
General Chemistry - Westborou	igh Lab Asso	ciated samp	ole(s): 01-13	QC Batch I	D: WG417683-4	QC Sample: L	.1008682-07 Cli	ent ID:	GP-10-03-029-F
Nitrogen, Ammonia	ND	4	3.91	98		•	80-120	Ġ.	20
General Chemistry - Westborou	igh Lab Asso	ociated samp	ole(s): 01-13	QC Batch I	D: WG417703-3	QC Sample: L	.1008682-07 Cli	ent ID:	GP-10-03-029-F
Chemical Oxygen Demand	ND	238	240	102			80-120		20
General Chemistry - Westborou	igh Lab Asso	ociated samp	ole(s): 01-13	QC Batch I	D: WG417869-3	QC Sample: L	.1008682-07 Cli	ent ID:	GP-10-03-029-F
Alkalinity, Total	46	100	150	99	*		86-116		4
Anions by Ion Chromatography Client ID: GP-10-03-029-F	- Westborou	igh Lab Asso	ociated sam	ple(s): 01-13	QC Batch ID: W	G418939-3 WG	641,8939-4 QC S	ample: I	_1008682-07
Chloride	210	32	240	99	30	86	40-151	14	18
Anions by Ion Chromatography Client ID: GP-10-03-029-F	- Westborou	igh Lab Asso	ociated sam	ple(s): 01-13	QC Batch ID: W	G419578-3 WG	6419578-4 QC S	ample: I	_1008682-07
Sulfate	48	200	250	102	ND	106	60-140	4	20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: /

AC001

Lab Number:

L1008682

Report Date:

Parameter	Nat	ive Sample		Ouplicate Sam	ple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	01-13 Q	C Batch ID	: WG417301-	4 QC Sample:	L1008682-07	Client ID:	GP-10-03-029-F
Nitrogen, Nitrite		ND		ND	mg/l	NC		20
Anions by Ion Chromatography - Westb 03-029-F	orough Lab Associated	d sample(s)): 01-13	QC Batch ID:	WG417324-5	QC Sample: I	.1008682-0	7 Client ID: GP-10-
Nitrogen, Nitrate	4 2	1.4		1.5	mg/l	7		15
General Chemistry - Westborough Lab	Associated sample(s):	01-13 Q	C Batch ID	WG417683-3	GC Sample:	L1008682-07	Client ID:	GP-10-03-029-F
Nitrogen, Ammonia	7 34	0.0326J		0.0299J	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	01-13 Q	C Batch ID	WG417703-4	QC Sample:	L1008682-07	Client ID:	GP-10-03-029-F
Chemical Oxygen Demand		ND		11J	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	01-13 Q	C Batch ID:	WG417869-4	QC Sample:	L1008682-07	Client ID:	GP-10-03-029-F
Alkalinity, Total	5	46		45	mg CaCO	3/L 2		4
Anions by Ion Chromatography - Westb 03-029-F	orough Lab Associated	d sample(s)	: 01-13	QC Batch ID: 1	WG418939-5	QC Sample: L	.1008682-0	7 Client ID: GP-10-
Chloride	. Ÿo	210		210	mg/l	0		18
Anions by Ion Chromatography - Westb 03-029-F	orough Lab Associated	d sample(s)	01-13	QC Batch ID: 1	NG419578-5	QC Sample: L	.1008682-0	7 Client ID: GP-10-
Sulfate		48.		57	mg/l	17		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682 Report Date: 06/29/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

 B
 Present/Intact

 C
 Present/Intact

 A
 Present/Intact

 D
 Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008682-01A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-01B	Plastic 500ml HNO3 preserved	D	<2	2.2	Υ	PresenVIntact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-01C	Plastic 500ml H2SO4 preserved	D	<2	2.2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-01D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-01E	Plastic 250ml unpreserved	D	N/A	2,2	Y	Present/Intact	ALK-T-2320(14)
L1008682-02A	Plastic 250ml unpreserved	C	7	2.1	Y	Present/Intact	NO2-4500NO2(2)
L1008682-02B	Plastic 500ml HNO3 preserved	C	<2	21	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-02C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-02D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-02E	Plastic 250ml unpreserved	C	N/A	2.1	Y	Present/Intact	ALK-T-2320(14)
L1008682-03A	Plastic 250ml unpreserved	В	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-03B	Plastic 500ml HNO3 preserved	С	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-03C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-03D	Plastic 500ml unpreserved	С	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682 Report Date: 06/29/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	and the state of t	Pres	Seal	Analysis(*)
L1008682-03E	Plastic 250ml unpreserved	В	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-04A	Plastic 250ml unpreserved	В	7	2.9	Y	Present/Inlact	NO2-4500NO2(2)
L1008682-048	Plastic 500ml HNO3 preserved	С	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180), DOD-MG- 6020S(180), DOD-MN- 6020S(180), DOD-CA- 6020S(180), DOD-NA- 6020S(180), DOD-AS- 6020S(180), DOD-K-6020S(180)
L1008682-04C	Plastic 500ml H2SO4 preserved	C	<2	21	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-04D	Plastic 500ml unpreserved	С	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-04E	Plastic 250ml unpreserved	В	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-05A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-05B	Plastic 500ml HNO3 preserved	С	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-05C	Plastic 500ml H2SO4 preserved	C	<2	21	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-05D	Plastic 500ml unpreserved	C	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-05E	Plastic 250ml unpreserved	D	N/A	22	Y	Present/Intact	ALK-T-2320(14)
L1008682-06A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-06B	Plastic 500ml HNO3 preserved	Ċ	<2	21	Y	Present/intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-AS-6020S(180),DOD-K-6020S(180)
L1008682-06C	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-06D	Plastic 500ml unpreserved	D	7	2.2	Υ	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-06E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-07A	Plastic 250ml unpreserved	B:	7	- 2.9	Υ.	Present/Intact	NO2-4500NO2(2)
Ľ1008682-0 7 B	Plastic 500ml HNO3 preserved	В	<2	2.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-07C	Plastic 500ml H2SO4 preserved	В	<2	29	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-07D	Plastic 500ml unpreserved	В	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-07E	Plastic 250ml unpreserved	В	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-07F	Plastic 250ml unpreserved	В	7	2.9	Y	Present/Intact	NO2-4500NO2(2)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682 Report Date: 06/29/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008682-07G	Plastic 500ml HNO3 preserved	В	<2	2,9	Y	PresenVintact	DOD-FE-6020S(180), DOD-MG- 6020S(180), DOD-MN- 6020S(180), DOD-CA- 6020S(180), DOD-NA- 6020S(180), DOD-AS- 6020S(180), DOD-K-6020S(180)
L1008682-07H	Plastic 500ml H2SO4 preserved	В	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-07I	Plastic 500ml unpreserved	В	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-07J	Plastic 250ml unpreserved	В	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-08A	Plastic 250ml unpreserved	В	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-08B	Plastic 500ml HNO3 preserved	В	<2	2.9	Y	Present/Intact	DOD-FE-6020S(180), DOD-MG- 6020S(180), DOD-MN- 6020S(180), DOD-CA- 6020S(180), DOD-NA- 6020S(180), DOD-AS- 6020S(180), DOD-K-6020S(180)
L1008682-08C	Plastic 500ml H2SO4 preserved	В	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-08D	Plastic 500ml unpreserved	В	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-08E	Plastic 250ml unpreserved	В	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-09A	Plastic 250ml unpreserved	В	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-09B	Plastic 500ml HNO3 preserved	C	<2	21	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-09C	Plastic 500ml H2SO4 preserved	В	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-09D	Plastic 500ml unpreserved	В	7	29	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-09E	Plastic 250ml unpreserved	В	N/A	29	Y	Present/Intact	ALK-T-2320(14)
L1008682-10A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-10B	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN-
	7. 18 .	i		y =			6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-10C	Plastic 500ml H2SO4 preserved	D	<2	2.2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-10D	Plastic 500ml unpreserved	A	7	2.1	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-10E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-11A	Plastic 250ml unpreserved	D	7	2.2	Y	Present/Intact	NO2-4500NO2(2)
L1008682-11B	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008682

Report Date: 06/29/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008682-11C	Plastic 500ml H2SO4 preserved	D	<2	2.2	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-11D	Plastic 500ml unpreserved	D	7	2.2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1008682-11E	Plastic 250ml unpreserved	D	N/A	2.2	Y	Present/Intact	ALK-T-2320(14)
L1008682-12A	Plastic 250ml unpreserved	В	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-12B	Plastic 500ml HNO3 preserved	В	<2	2.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-12C	Plastic 500ml H2SO4 preserved	В	<2	2.9	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-12D	Plastic 500ml unpreserved	В	7	2.9	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-12E	Plastic 250ml unpreserved	В	N/A	2.9	Y	Present/Intact	ALK-T-2320(14)
L1008682-13A	Plastic 250ml unpreserved	В	7	2.9	Y	Present/Intact	NO2-4500NO2(2)
L1008682-13B	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)
L1008682-13C	Plastic 500ml H2SO4 preserved	В	<2	29	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1008682-13D	Plastic 500ml unpreserved	D	7	2,2	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1008682-13E	Plastic 250ml unpreserved	В	N/A	29	Y	Present/Intact	ALK-T-2320(14)
L1008682-14B	Plastic 500ml HNO3 preserved	С	<2	2.1	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG- 6020S(180),DOD-MN- 6020S(180),DOD-CA- 6020S(180),DOD-NA- 6020S(180),DOD-AS- 6020S(180),DOD-K-6020S(180)

Container Comments

L1008682-01B

L1008682-07B

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date:

06/29/10

GLOSSARY

Acronyms

EPA Environmental Protection Agency.

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MDI. Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

Nt Not Ignitable.

RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration.

The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to
ussess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD).
 Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the
absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E. Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction

Report Format: DU Report with "J" Qualifiers

ΔLPHA

Project Name:

SHL TASK 0002

Lab Number:

L1008682

Project Number:

AC001

Report Date: 06/29/10

Data Qualifiers

 Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

ALPHA

Project Name:

SHL TASK 0002

Project Number: AC001

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Lab Number:

L1008682

Report Date:

06/29/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

DLPHA

Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate, Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-

chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-fillerable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D. 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.) Solld Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity, Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2.4.5-T. 2.4.5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1, Organic Parameters; 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics) (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Tí,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters; SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935, NELAP Accredited.

Drinking Water (Inorqunic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1,

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200,8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B.

Organic Parameters: EPA 524 2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA

8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab | D : 68-03671. NELAP Accredited. Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited. Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2 D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

	CHAIN OF	CUSTO	YC	AGE /	OF 2	Date	Rec'd i	n Lab	te	10/10	2	ALPH	IA Job# 1-100 8	177
WESTBORO, MA	MANSFIELD, MA	Project Informat	ion			Rep	ort Info	orma	tion - Da	ita Delive	rables	Billin	g Information	
TEL: 508-898-9220 FAX: 508-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name: 5/	L Tas	4 0002	L	IJ.F.	AX			L EDR		□ Sam	e as Client info PO#:	290
Client Information		Project Location: [Deven's	MA		□ A	See No.		- 63673	Deliverable				
Client: Soverers	n Consulting Inc	Project#: ACC	100		. 1	Regu	atory	Requ	irement	s/Report	100			
	Sucta Main St	Project Manager:	Phil Mc	Bain			Fed Pr					-	EDAPP	
	NA 02048	ALPHA Quote #:				1000			MPTIVE	CERTAIN	ΤΥ (CT REAS	ONABLE CONFIDENCE PI	ROTO
Phone: 508-3		Turn-Around Tir	ne		7	100	s OA			Analytical Spike (MS			? SDG? (If yes see note in Comr	ments)
Fax: 508-3	39- 3248		2000			30	s 54 N			4 13 Gra . Dr. 74			Protocols) Required?	
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3	GP-10-05A-079-F	6/9/10	1845	6W	PJV	VI	t	1	V					5
4	GP10-05A-089-F	6/4/10	1920	GW	PJV	1	Vi	Tu	1					5
	GP-10-05A-099-F	6/4/10	1940	GW	POV	V	V	TV	v	100				5
6	GP-10-USA-109-F	6/9/10	2010	GW	POV	V	V	tu	1	14	1			5
7	GP-10-03-029-F	blicke	0825	6W	PJV	IVI	1	tu	1	Tile.	İ		MS/MSD	10
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ANALYTICAL REPORT

Lab Number:

L1008691

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

06/26/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008691

Report Date:

06/26/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008691-01	GP-10-02-024-U	DEVENS, MA	06/07/10 09:50
L1008691-02	GP-10-02-034-U	DEVENS, MA	06/07/10 10:42
L1008691-03	GP-10-02-044-U	DEVENS, MA	06/07/10 11:35
L1008691-04	GP-10-02-054-U	DEVENS, MA	06/07/10 12:27
L1008691-05	GP-10-02-064-U	DEVENS, MA	06/07/10 13:08
L1008691-06	GP-10-02-074-U	DEVENS, MA	06/07/10 15:05
L1008691-07	GP-10-02-084-U	DEVENS, MA	06/07/10 18:12
L1008691-08	GP-10-02-094-U	DEVENS, MA	06/08/10 09:25
L1008691-09	GP-10-02-102-U	DEVENS, MA	06/08/10 10:10
L1008691-10	GP-10-04-014-U	DEVENS, MA	06/08/10 12:40
L1008691-11	GP-10-04-024-U	DEVENS, MA	06/08/10 14:00
L1008691-12	GP-10-04-034-U	DEVENS, MA	06/08/10 14:50
L1008691-13	GP-10-04-044-U	DEVENS, MA	06/08/10 15:10
L1008691-14	GP-10-04-054-U	DEVENS, MA	06/08/10 15:50
L1008691-15	GP-10-04-064-U	DEVENS, MA	06/08/10 16:25
L1008691-16	GP-10-04-074-U	DEVENS, MA	06/08/10 17:15
L1008691-17	GP-10-04-084-U	DEVENS, MA	06/08/10 17:50
L1008691-18	GP-10-04-094-U	DEVENS, MA	06/08/10 18:30
L1008691-19	GP-10-05-015-U	DEVENS, MA	06/09/10 09:58
L1008691-20	GP-10-05-025-U	DEVENS, MA	06/09/10 10:25
L1008691-21	GP-10-05-035-U	DEVENS, MA	06/09/10 10:53
L1008691-22	GP-10-05-045-U	DEVENS, MA	06/09/10 11:24
L1008691-23	GP-10-05A-029-U	DEVENS, MA	06/09/10 13:20
L1008691-24	GP-10-05A-039-U	DEVENS, MA	06/09/10 14:05
L1008691-25	GP-10-05A-049-U	DEVENS, MA	06/09/10 14:55
L1008691-26	GP-10-05A-059-U	DEVENS, MA	06/09/10 15:57
L1008691-27	GP-10-05A-069-U	DEVENS, MA	06/09/10 17:15
L1008691-28	GP-10-05A-079-U	DEVENS, MA	06/09/10 18:45
L1008691-29	GP-10-05A-089-U	DEVENS, MA	06/09/10 19:20
L1008691-30	GP-10-05A-099-U	DEVENS, MA	06/09/10 19240 на
Page 8691-571	GP-10-05A-109-U	DEVENS, MA	06/09/10 20:10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1008691-32	GP-10-03-029-U	DEVENS, MA	06/10/10 08:25
L1008691-33	GP-10-03-039-U	DEVENS, MA	06/10/10 09:20
L1008691-34	GP-10-03-049-U	DEVENS, MA	06/10/10 10:00
L1008691-35	GP-10-03-059-U	DEVENS, MA	06/10/10 10:40
L1008691-36	GP-10-03-069-U	DEVENS, MA	06/10/10 11:20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008691

Report Date:

06/26/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.) Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is boided in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Arsenic, Total

L1008691-06 through -09, -16 through -18, -21, -22, -27, -28, -30, -31 and -33 through -36 have elevated detection limits for Arsenic due to the dilutions required by the high concentrations of non-target analytes. The requested reporting limits were achieved.

L1008691-20 has an elevated detection limit for Arsenic due to the dilution required by the high concentrations of non-target analytes. The requested reporting limit was not achieved.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

Date: 06/26/10

METALS

Project Name: SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-01 GP-10-02-024-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 09:50

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	0.41	J	ug/I	0.500	0.113	1	06/11/10 10:3	0 06/16/10 23:5:	3 EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-02 GP-10-02-034-U

Date Collected: Date Received: 06/07/10 10:42 06/10/10

Sample Location:

DEVENS, MA

Field Prep:

Not Specified

Matrix:

Parameter

Water

Result

Dilution Date Date Prep Qualifier Factor Prepared

MDL

Analyzed Method Analytical Method Analyst

Total Metals - Westborough Lab

Arsenic, Total 0.670

ug/l 0.500 0.113

RL

Units

06/11/10 10:30 06/17/10 00:17 EPA 3005A

1,6020A

BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-03 GP-10-02-044-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 11:35

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Qualifier Factor Prepared Analyzed Method Parameter Result Units RL MDL **Analyst**

Total Metals - Westborough Lab

Arsenic, Total 1.64 ug/l 0.500 0.113 06/11/10 10:30 06/17/10 00:23 EPA 3005A 1,6020A ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-04

Date Collected:

06/07/10 12:27

Client ID: Sample Location: GP-10-02-054-U DEVENS, MA

Date Received:

06/10/10

Matrix:

Water

Field Prep:

Not Specified

Parameter Result

Qualifier Units MDL

RL

Date Prepared

Date Analyzed

Prep Method Analytical Method **Analyst**

Total Metals - Westborough Lab

Arsenic, Total

2.43

ug/l

0.500 0.113

Dilution

Factor

06/11/10 10:30 06/17/10 00:29 EPA 3005A

1,6020A

BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-05

Client ID: Sample Location: GP-10-02-064-U DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 13:08

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifler	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	5.87		ug/l	0.500	0.113	1	06/11/10 10:3	0 06/17/10 00:35	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-06

Client ID:

GP-10-02-074-U DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 15:05

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough l	_ab									
Arsenic, Total	36.9		ug/l	5.00	1.13	10	06/11/10 10:3	0 06/17/10 00:41	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-07

Client ID:

GP-10-02-084-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/07/10 18:12

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough l	_ab									
Arsonic Total	24.8		ua/I	5.00	1 13	10	06/11/10 10:3	0.06/17/10.00:59	FPA 3005A	1 6020A	BM

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008691

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-08

Sample Location:

GP-10-02-094-U DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 09:25

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Prep Date Factor Prepared Analyzed Method Qualifier Units Parameter Result RL MDL Analyst

Total Metals - Westborough Lab

1,6020A 127 06/11/10 10:30 06/17/10 01:05 EPA 3005A ВМ Arsenic, Total ug/l 5.00 1.13 10

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-09

Client ID:

GP-10-02-102-U DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 10:10

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough l	_ab									
Arsenic, Total	84.6		ug/l	5.00	1.13	10	06/11/10 10:30	0 06/17/10 01:11	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-10

Client ID:

GP-10-04-014-U DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 12:40

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Prep Date Factor Prepared Analyzed Method Qualifier Units Parameter Result RL MDL Analyst

Total Metals - Westborough Lab

Arsenic, Total 2.26

ug/l 0.500 0.113

06/11/10 10:30 06/17/10 01:17 EPA 3005A

1,6020A

ВМ

Project Name: SHL TASK 0002

AC001

Lab Number:

L1008691

Project Number:

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-11 GP-10-04-024-U

Sample Location: Matrix:

Water

DEVENS, MA

Date Collected:

06/08/10 14:00

Date Received:

06/10/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough l	_ab									
Arsenic, Total	2.19		ug/l	0.500	0.113	1	06/11/10 10:3	0 06/17/10 01:2	3 EPA 3005A	1,6020A	вм

Project Name: Lab Number: SHL TASK 0002 L1008691

Project Number: Report Date: AC001 06/26/10

SAMPLE RESULTS

Date Collected: 06/08/10 14:50 Lab ID: L1008691-12 Client ID: GP-10-04-034-U Date Received: 06/10/10 Field Prep: Sample Location: DEVENS, MA Not Specified

Matrix: Water

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Qualifier Units MDL Analyst Parameter Result RL Total Metals - Westborough Lab 06/11/10 10:30 06/17/10 01:29 EPA 3005A 1,6020A ВМ 1.22 0.500 Arsenic, Total ug/l 0.113

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-13

GP-10-04-044-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 15:10

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Parameter Qualifier Result Units MDL RL Analyst

Total Metals - Westborough Lab

Arsenic, Total 3.37

ug/l 0.500 0.113

06/11/10 10:30 06/17/10 01:35 EPA 3005A

1,6020A BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-14

Client ID: Sample Location: GP-10-04-054-U DEVENS, MA

Matrix:

Water

Date Collected:

Date Received:

06/08/10 15:50

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Factor Method Prepared Analyzed **Parameter** Result Qualifier Units RL MDL Analyst

Total Metals - Westborough Lab

1,6020A Arsenic, Total 13.7 0.500 0.113 06/11/10 10:30 06/17/10 01:41 EPA 3005A ВМ ug/l

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

MDL

0.113

Dilution

Factor

Lab ID:

L1008691-15

Client ID:

GP-10-04-064-U DEVENS, MA

Qualifier

Units

RL

0.500

Matrix:

Parameter

Water

Result

Date Collected:

06/08/10 16:25

Date Received:

06/10/10

Field Prep:

Date

Prepared

Not Specified

Analytical Method Date Prep

Method

Total Metals - Westborough Lab

8.02 Arsenic, Total ug/l 06/11/10 10:30 06/17/10 01:47 EPA 3005A

Analyzed

1,6020A

ВМ

Analyst

Project Name: SH

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

Lab ID:

....

SAMPLE RESULTS

Date Collected:

06/08/10 17:15

ВМ

Client ID: Sample Location: L1008691-16 GP-10-04-074-U DEVENS, MA

Date Received: Field Prep:

06/10/10 Not Specified

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst

Total Metals - Westborough Lab

Arsenic, Total 24.3 ug/l 5.00 1.13 10 06/11/10 10:30 06/17/10 01:53 EPA 3005A 1,6020A

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-17

Client ID: Sample Location: GP-10-04-084-U DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 17:50

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Qualifier **Factor** Prepared Analyzed Method Parameter Result Units RL MDL Analyst

Total Metals - Westborough Lab

Arsenic, Total

26.7

ug/l 5.00 1.13

10

06/11/10 10:30 06/17/10 02:11 EPA 3005A

1,6020A

BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

L1008691-18

Lab ID: Client ID:

GP-10-04-094-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/08/10 18:30

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Qualifier Units MDL Factor Prepared Analyzed Method Parameter Result RL Analyst

1.13

SAMPLE RESULTS

Total Metals - Westborough Lab

Arsenic, Total 214 ug/l

5.00

10

06/11/10 10:30 06/17/10 02:17 EPA 3005A

1,6020A BM

Lab Number: **Project Name:** SHL TASK 0002

Report Date:

L1008691

Project Number:

AC001

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-19 GP-10-05-015-U DEVENS, MA

Date Collected: Date Received: 06/09/10 09:58 06/10/10

Sample Location: Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough L	_ab									
Arsenic, Total	2.08		ug/l	0.500	0.113	1	06/11/10 10:3	0 06/17/10 02:23	EPA 3005A	1,6020A	ВМ

L1008691

Project Name: SHL TASK 0002 Lab Number: **Project Number:**

Report Date: AC001 06/26/10

SAMPLE RESULTS

MDL

Lab ID: L1008691-20 GP-10-05-025-U Client ID: Sample Location: DEVENS, MA

Result

Matrix: Water

Units

RL

Qualifier

Date Collected: 06/09/10 10:25 Date Received: 06/10/10 Field Prep: Not Specified

Analytical Method Prep Method Date Date Prepared Analyzed Analyst

Total Metals - Westborough Lab

Parameter

Arsenic, Total 1.02 ug/l 2.50 0.565 06/11/10 10:30 06/17/10 02:29 EPA 3005A 1,6020A ВМ

Dilution

Factor

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-21

Client ID:

GP-10-05-035-U DEVENS, MA

Matrix:

Water

Date Collected:

Date Received:

06/10/10

Field Prep:

Not Specified

06/09/10 10:53

Analytical Method Dilution Prep Date Date Factor Prepared Analyzed Method Parameter Result Qualifier Units RL MDL Total Metals - Westborough Lab

Arsenic, Total

130

ug/l

0.565

2.50

5 06/11/10 10:30 06/17/10 02:42 EPA 3005A

Analyst

1,6020A BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-22

Client ID:

GP-10-05-045-U DEVENS, MA

Qualifier

Matrix:

Parameter

Water

Result

Date Collected:

06/09/10 11:24

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Prep Method Dilution Date Date Analyzed Factor Prepared RL MDL

Total Metals - Westborough Lab

Arsenic, Total

86.4

ug/l

Units

2.50 0.565

06/11/10 10:30 06/17/10 03:06 EPA 3005A

Analyst

1,6020A

BM

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1008691

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-23 GP-10-05A-029-U

Qualifier

Sample Location:

DEVENS, MA

Matrix:

Parameter

Water

Result

Date Collected:

06/09/10 13:20

Date Received:

06/10/10

Method

Field Prep:

Not Specified

Analytical Method Prep

Total Metals - Westborough Lab

Arsenic, Total

0.930

ug/l

Units

0.500 0.113

MDL

RL

06/11/10 10:30 06/17/10 03:24 EPA 3005A

Date

Prepared

Dilution

Factor

Date

Analyzed

1,6020A ВМ

Analyst

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-24

Client ID:

GP-10-05A-039-U

Matrix:

DEVENS, MA Water Date Collected:

06/09/10 14:05

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Parameter Qualifier Result Units RL MDL Analyst

Total Metals - Westborough Lab

Arsenic, Total 13.0

ug/l 0.500 0.113 1 06/11/10 10:30 06/17/10 03:30 EPA 3005A

1,6020A

ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

Lab ID:

SAMPLE RESULTS

Client ID:

L1008691-25 GP-10-05A-049-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 14:55

Date Received:

06/10/10

Field Prep:

Not Specified

Dilution Date Date Prep **Analytical** Method Factor Prepared Analyzed Method Parameter Result Qualifier Units RL MDL Analyst

Total Metals - Westborough Lab

Arsenic, Total

4.86

ug/l

0.500 0.113

06/11/10 10:30 06/17/10 03:36 EPA 3005A

1,6020A

BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-26

Client ID:

GP-10-05A-059-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 15:57

Date Received:

06/10/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst

Total Metals - Westborough Lab

Arsenic, Total

3.48

ug/l

0.500 0.113

4

06/11/10 10:30 06/17/10 03:42 EPA 3005A

....

1,6020A BM

Project Name: SHL TASK 0002

AC001

Lab Number:

L1008691

Project Number:

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID: Client ID: L1008691-27 GP-10-05A-069-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 17:15

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Parameter Result Qualifier Units MDL RL Analyst

Total Metals - Westborough Lab

Arsenic, Total 29.8 ug/l 2.50 0.565 5 06/11/10 10:30 06/17/10 03:48 EPA 3005A 1,6020A BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-28

Client ID:

GP-10-05A-079-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

06/09/10 18:45

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Prep Date Date Factor Prepared Analyzed Method Qualifier Units **Parameter** Result RL MDL Analyst Total Metals - Westborough Lab

65.0 Arsenic, Total

ug/l

2.50

0.565

06/11/10 10:30 06/17/10 03:54 EPA 3005A

1,6020A

ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

Lab ID: Client ID: L1008691-29

GP-10-05A-089-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/09/10 19:20

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Prepared Factor Analyzed Method Parameter Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab

Arsenic, Total 24.5 ug/l

0.500 0.113

SAMPLE RESULTS

06/11/10 10:30 06/17/10 04:00 EPA 3005A

1,6020A ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

AND STREET

Lab ID:

L1008691-30 GP-10-05A-099-U

Client ID: Sample Location:

DEVENS, MA

Qualifler

Matrix:

Water

Date Collected:

6

06/09/10 19:40

Date Received:

06/10/10

Field Prep:

Not Specified

natrix. Wate

Parameter Result

Dilution MDL Factor Date Prepared Date Analyzed Prep Method Analytical Method Analyst

Total Metals - Westborough Lab

Arsenic, Total

364

ug/l

Units

2.50 0.565

RL

SAMPLE RESULTS

5

06/11/10 10:30 06/17/10 04:06 EPA 3005A

1,6020A

BM

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-31

Client ID:

GP-10-05A-109-U DEVENS, MA

Qualifier

Matrix:

Parameter

Water

Result

Date Collected:

06/09/10 20:10

Date Received:

06/10/10

Field Prep:

Not Specified

Total Metals - Westborough Lab

10.0

MDL

RL

Date Prepared

Date Analyzed

Prep Method Analytical Method Analyst

Arsenic, Total

911

ug/l

Units

2.26

20

Dilution

Factor

06/11/10 10:30 06/17/10 04:12 EPA 3005A

1,6020A

ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-32

Client ID:

GP-10-03-029-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

Date Received:

06/10/10 08:25

Date Receiv

06/10/10

Field Prep:

Not Specified

1,6020A

ВМ

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method **Parameter** Result Qualifier Units RL MDL Analyst

Total Metals - Westborough Lab

Arsenic, Total 0.890 ug/l 0.500 0.113 1 06/11/10 10:30 06/17/10 04:18 EPA 3005A

ДІРНА

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

Sample Location:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-33

Client ID:

GP-10-03-039-U DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 09:20

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Result Qualifier **Parameter** Units RL MDL Analyst Total Metals - Westborough Lab Arsenic, Total 6.79 2.50 0.565 06/11/10 10:30 06/17/10 04:36 EPA 3005A 1,6020A 5 ВМ ug/l

Project Name:

SHL TASK 0002

AC001

Lab Number:

L1008691

Project Number:

Sample Location:

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-34

Client ID:

GP-10-03-049-U

Qualifier

Matrix:

Parameter

DEVENS, MA Water

Result

Date Collected:

06/10/10 10:00

Date Received:

06/10/10

Field Prep:

Not Specified

Arsenic, Total

Units

Dilution Factor MDL

Date Prepared

Date Analyzed

Prep Method Analytical Method

Analyst

Total Metals - Westborough Lab

14.6

ug/l

2.50

RL

0.565

06/11/10 10:30 06/17/10 04:42 EPA 3005A

BM

1,6020A

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

The second secon

Lab ID: Client ID: L1008691-35 GP-10-03-059-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 10:40

1,6020A

вм

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Dilution Prep Date Date Factor Prepared Analyzed Method Method Qualifier **Parameter** Result Units RL MDL Analyst

SAMPLE RESULTS

Total Metals - Westborough Lab

Arsenic, Total 42.1 ug/l 2.50 0.565 5 06/11/10 10:30 06/17/10 04:48 EPA 3005A

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

SAMPLE RESULTS

Lab ID:

L1008691-36

Client ID: Sample Location: GP-10-03-069-U DEVENS, MA

Matrix:

Water

Date Collected:

06/10/10 11:20

Date Received:

06/10/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Parameter Result Qualifier Units MDL RL Analyst Total Metals - Westborough Lab Arsenic, Total 8.74 2.50 0.565 5 06/11/10 10:30 06/17/10 04:54 EPA 3005A 1,6020A BM ug/1

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1008691

Report Date:

06/26/10

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Method Analyst **Parameter Result Qualifier** Units Factor Prepared Analyzed RL MDL Total Metals - Westborough Lab for sample(s): 01-20 Batch: WG417430-1 ND Arsenic, Total ug/l 0.500 0.113 06/11/10 10:30 06/16/10 21:23 ВМ 1,6020A

Prep Information

Digestion Method: EPA 3005A

Dilution Date Date Analytical Method Analyst **Parameter** Result Qualifier Units RL MDL Factor Prepared Analyzed Total Metals - Westborough Lab for sample(s): 21-36 Batch: WG417431-1 Arsenic, Total ND 0.500 06/11/10 10:30 06/16/10 21:04 ug/l 0.113 1,6020A вм

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Lab Number:

L1008691

Report Date:

06/26/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Westborough Lab	Associated sample(s): 01-	20 Batch	: WG417430-2						
Arsenic, Total	98				80-120	4			
Total Metals - Westborough Lab	Associated sample(s): 21-	36 Batch	: WG417431-2						
Arsenic, Total	102		**		80-120				

Project Name:

Project Number:

SHL TASK 0002

AC001

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008691

Report Date:

06/26/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough L	ab Associated	sample(s): 0	1-20 QC	Batch ID: WG	417430-4	4 QCS	ample: L10086	91-01	Client ID:	GP-10-	02-024	-U
Arsenic, Total	ND	120	135	112		*	81		80-120			20
Total Metals - Westborough L	ab Associated	sample(s): 2	1-36 QC	Batch ID: WG	417431-4	QC S	ample: L10086	91-21	Client ID:	GP-10-	05-035	-U
Arsenic, Total	130	120	260	108					80-120	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1008691

Report Date:

06/26/10

Parameter	Nati	ve Sample	Duplicate	Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s):	01-20	QC Batch ID:	WG417430-3	QC Sample:	L1008691-01	Client ID:	GP-10-0	2-024-U
Arsenic, Total	2	0.41J	0.38	L	ug/l	NC		20
Total Metals - Westborough Lab Associated sample(s):	21-36	QC Batch ID:	WG417431-3	QC Sample:	L1008691-21	Client ID	GP-10-0	5-035-U
Arsenic, Total		130.	12	3	ug/l	2		20

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691

Report Date: 06/26/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on:

Cooler Information Custody Seal

Cooler

A

Present/Intact

D

Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1008691-01A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691 02A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-03A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-04A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-05A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-06A	Plastic 500ml HNO3 preserved	A	<2	21	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-07A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-08A	Plastic 500ml HNO3 preserved	Α	<2	21	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-09A	Plastic 500ml HNO3 preserved	A	<2	21	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-10A	Plastic 500ml HNO3 preserved	Α	<2	21	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-11A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-12A	Plastic 500ml HNQ3 preserved	A	<2	21	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-13A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-14A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-15A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-16A	Plastic 500ml HNO3 preserved.	D .	<2	2.2	γ.	Present/Intact	DOD-AS-6020T(180)
L1008691-17A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	'DOD-AS-6020T(180)
L1008691-18A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-19A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-20A	Plastic 500ml HNO3 preserved	A	<2	2,1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-21A	Plastic 500ml HNO3 preserved	A.	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-22A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-23A	Plastic 500ml HNO3 preserved	A	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-24A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-25A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-26A	Plastic 500ml HNO3 preserved	Ā	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1008691 Report Date: 06/26/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
L1008691-27A	Plastic 500ml HNO3 preserved	D	<2	2.2	Υ	Present/Intact	DOD-AS-6020T(180)
L1008691-28A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-29A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-30A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-31A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-32A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-33A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-34A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-35A	Plastic 500ml HNO3 preserved	Α	<2	2.1	Y	Present/Intact	DOD-AS-6020T(180)
L1008691-36A	Plastic 500ml HNO3 preserved	D	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180)

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

GLOSSARY

Aeronyms

EPA Environmental Protection Agency,

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD -Laboratory Control Sample Duplicate: Refer to LCS.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as
estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL
includes any adjustments from dilutions, concentrations or moisture content, where applicable.

 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not lynitable.

Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration.
 The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to
assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD).
 Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the
absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- RE Analytical results are from sample re-extraction.

Report Format: DU Report with "J" Qualifiers

Дирна

Project Name: SHL TASK 0002 Lab Number: L1008691
Project Number: AC001 Report Date: 06/26/10

Data Qualifiers

 Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name:

SHL TASK 0002

Lab Number:

L1008691

Project Number:

AC001

Report Date:

06/26/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 17, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters. Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-

chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organichlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.) Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadlum, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B,4500NO3-F, EPA 2007, EPA 2008, 245 1. Organic Parameters: 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B. 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1 Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Nl,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Aq,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH. (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N. SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0, Organic FOA4, 624.2, CM6254B, Francisco FoA4, 624.2

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1,

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B.

Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B, Organic Parameters: EPA

8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited.
Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3,3.2, EPA 7.3,4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1, *NELAP Accredited*. *Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B, Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

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2	GP-10-02-034-U	6	01/1/2	1042	GW	NCA	/								
3	GP-10-02-044-4	6	17/10	1135	GW	PIV	11								
The state of the s	CP-10-02-054-U	6	סולרל	1227	GW	PSV	V								
5	GP-10-02-064-U	6	17/10	1308	6W	PSV	1			100					
125	GP-10-02-074-4	U	17/10	1505	GW	pov	1		1						
	68-10-02-084-4		6/7/10	1812	GW	PIV					i i	H.			
R	GP+0-02-094-U	4	olslio	0925	GW	PSV	V								
	GP-10-02-102-U	-	6/8/10	1010	GW	PSV	V								
10	GP-10-04-014-U		6/8/10	1240	GW	VC9	V								
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24		6/9/10	1405	GW	RUV	V									(4)
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	GP-10-05A-059-4	44/10	1557	GW	PSV	V.					10.1				
	GP-10-05.4-069-U	6/4/10	1715	GW	PSV	1		+							-
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ANALYTICAL REPORT

Lab Number:

L1011707

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/10/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707 Report Date: 08/10/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011707-01	GP-10-17-009-F	DEVENS, MA	08/02/10 10:33
L1011707-02	GP-10-17-009-U	DEVENS, MA	08/02/10 10:33
L1011707-03	GP-10-17-019-F	DEVENS, MA	08/02/10 11:38
L1011707-04	GP-10-17-019-U	DEVENS, MA	08/02/10 11:38
L1011707-05	GP-10-17-029-F	DEVENS, MA	08/02/10 14:45
L1011707-06	GP-10-17-029-U	DEVENS, MA	08/02/10 14:45
L1011707-07	DUP-080210-F	DEVENS, MA	08/02/10 11:38
L1011707-08	DUP-080210-U	DEVENS, MA	08/02/10 11:38
L1011707-09	RB-080210-U	DEVENS, MA	08/02/10 15:30

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011707

Report Date:

08/10/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Dissolved Inorganic Carbon will be reported under separate cover.

Metals

The WG425880-3/-4 MS/MSD recoveries, performed on L1011707-02, are above the acceptance criteria for Iron (125%/121%). A post digestion spike was performed with an acceptable recovery of 86%. The parent sample (L1011707-02) is J-qualified for Iron.

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

Case Narrative (continued)

Solids, Total Suspended

A Laboratory Duplicate was performed in lieu of the requested Matrix Spike.

The WG425733-2 Laboratory Duplicate RPD (93%), performed on L1011707-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate (different containers).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

Date: 08/10/10

METALS



Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-01

Client ID:

GP-10-17-009-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/02/10 10:33

Date Received:

08/02/10

Field Prep:

See Narrative

Analytical Method Dilution Prep Date Date Factor Prepared Analyzed Method Result Qualifier Units MDL Analyst **Parameter** RL Dissolved Metals - Westborough Lab 08/03/10 22:00 08/05/10 01:00 EPA 3005A 1,6020A ВМ Arsenic, Dissolved 0.46 0.500 0.113 ug/l 08/03/10 22:00 08/05/10 01:00 EPA 3005A 1,6020A Iron, Dissolved 1620 50.0 8.41 BM ug/I

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1011707

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-02

Client ID: Sample Location: GP-10-17-009-U DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 10:33

Date Received:

08/02/10

Field Prep:

None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	stborough L	_ab									
Arsenic, Total	0.580		ug/l	0.500	0.113	1	08/03/10 22:00	0 08/05/10 02:01	EPA 3005A	1,6020A	вм
Iron, Total	1800	J	ug/l	50.0	8.41	1	08/03/10 22:0	0 08/05/10 02:01	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

Lab ID:

SAMPLE RESULTS

Client ID:

L1011707-03 GP-10-17-019-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 11:38

Date Received:

08/02/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.39	J	ug/l	0.500	0.113	1	08/03/10 22:0	0 08/05/10 01:24	EPA 3005A	1,6020A	вм
Iron, Dissolved	1800		ug/l	50.0	8.41	1	08/03/10 22:0	0 08/05/10 01:24	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

OF 12 17 10 11 00

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-04

Client ID:

GP-10-17-019-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/02/10 11:38

Date Received:

08/02/10

Field Prep:

None

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method
1 Diameter	,,oouit	a danie	5		IND L			Day Take	

Total Metals - Westborough Lab

Arsenic, Total 0.780 Iron, Total 1870 ug/l 0.500 0.113 ug/l 50.0 8.41

0.113 1 8.41 1

1 08/03/10 22:00 08/05/10 02:25 EPA 3005A 1 08/03/10 22:00 08/05/10 02:25 EPA 3005A

1,6020A 1,6020A

Analytical Method

> BM BM

Analyst

. . .

Дігна

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID: Client ID:

L1011707-05

Client ID; Sample Location: GP-10-17-029-F DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 14:45

Date Received:

08/02/10

Field Prep:

See Narrative

See

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Qualifier Units RL MDL Analyst **Parameter** Result Dissolved Metals - Westborough Lab Arsenic, Dissolved 0.25 0.500 0.113 08/03/10 22:00 08/05/10 01:30 EPA 3005A 1,6020A ВМ ug/l Iron, Dissolved 1240 50.0 08/03/10 22:00 08/05/10 01:30 EPA 3005A 1,6020A BM ug/l 8.41

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-06

Client ID:

GP-10-17-029-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/02/10 14:45

Date Received:

08/02/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough l	_ab									
Arsenic, Total	0.780		ug/l	0.500	0.113	1	08/03/10 22:0	0 08/05/10 02:31	EPA 3005A	1,6020A	ВМ
Iron, Total	1810		ug/l	50.0	8.41	1	08/03/10 22:0	0 08/05/10 02:31	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

Sample Location:

AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-07

Client ID:

DUP-080210-F

Matrix:

DEVENS, MA

Water

Date Collected:

08/02/10 11:38

Date Received:

08/02/10

Field Prep:

08/02/10

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.49	J	ug/l	0.500	0.113	1	08/03/10 22:00	0 08/05/10 01:36	EPA 3005A	1,6020A	вм
Iron, Dissolved	1870		ug/l	50.0	8.41	t	08/03/10 22:00	0 08/05/10 01:36	EPA 3005A	1,6020A	ВМ

Lab Number: Project Name: SHL TASK 0002 L1011707

Project Number: AC001

Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: L1011707-08 Client ID: DUP-080210-U Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 11:38 08/02/10 Date Received: Field Prep:

Not Specified

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
stborough L	_ab									
0.660		ug/l	0.500	0.113	1	08/03/10 22:00	0 08/05/10 02:37	EPA 3005A	1,6020A	вм
1840		ug/l	50.0	8.41	1	08/03/10 22:00	0 08/05/10 02:37	EPA 3005A	1,6020A	вм
	stborough L 0.660	stborough Lab 0.660	stborough Lab 0.660 ug/l	stborough Lab 0.660 ug/l 0.500	ostborough Lab 0.660 ug/l 0.500 0.113	Result Qualifier Units RL MDL Factor stborough Lab 0.660 ug/l 0.500 0.113 1	Result Qualifier Units RL MDL Factor Prepared stborough Lab 0.660 ug/l 0.500 0.113 1 08/03/10 22:0	Result Qualifier Units RL MDL Factor Prepared Analyzed stborough Lab 0.660 ug/l 0.500 0.113 1 08/03/10 22:00 08/05/10 02:37	Result Qualifier Units RL MDL Factor Prepared Analyzed Method stborough Lab 0.660 ug/l 0.500 0.113 1 08/03/10 22:00 08/05/10 02:37 EPA 3005A	Result Qualifier Units RL MDL Factor Prepared Analyzed Method stborough Lab 0.660 ug/l 0.500 0.113 1 08/03/10 22:00 08/05/10 02:37 EPA 3005A 1,6020A

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

Lab ID:

L1011707-09

Client ID:

RB-080210-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 15:30

Date Received:

08/02/10

Field Prep:

Not Specified

riep. Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	ND		ug/l	0.500	0.113	-1	08/03/10 22:00	0 08/05/10 02:43	EPA 3005A	1,6020A	вм
Iron, Total	15.2	J	ug/I	50.0	8.41	1	08/03/10 22:00	0 08/05/10 02:43	EPA 3005A	1,6020A	ВМ

SAMPLE RESULTS

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011707

Report Date:

08/10/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Westborough	Lab for sample(s): 02,04,0	6,08-09	Batch	n: WG4258	380-1			
Arsenic, Total	ND	ug/l	0.500	0.113	1	08/03/10 22:00	08/04/10 21:04	1,6020A	вм
Iron, Total	ND	ug/l	50.0	8.41	1	08/03/10 22:00	08/04/10 21:04	1,6020A	вм

Prep Information

Digestion Method:

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Dissolved Metals - W	estborough Lab for sami	ole(s): 01	,03,05,0	07 Bat	ch: WG42	5881-1			
Arsenic, Dissolved	ND	ug/l	0.500	0.113	1	08/03/10 22:00	08/04/10 21:04	1,6020A	ВМ
Iron, Dissolved	ND	ug/l	50.0	8.41	1	08/03/10 22:00	08/04/10 21:04	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

SHL TASK 0002

AC001

Project Name:

Project Number:

Lab Number:

L1011707

Report Date:

08/10/10

Parameter	LCS %Recovery	LCSD Qual %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Ass	sociated sample(s): 02,04	4,06,08-09 Batch: W	G425880-2	3			
Arsenic, Total	102			80-120			
Iron, Total	105	-		80-120			
Dissolved Metals - Westborough Lab	Associated sample(s):	01,03,05,07 Batch: V	VG425881-2	7	Ÿ		
Arsenic, Dissolved	102			80-120	- 81		
Iron, Dissolved	105			80-120			

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011707

Report Date:

08/10/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qua	Recovery Limits	RPD Q	RPD ual Limits
Total Metals - Westborough Lab GP-10-17-009-U	Associated	sample(s): 02	2,04,06,08	3-09 QC Bato	h ID: W	G425880-3	WG425880-4	QC	Sample: L10	11707-02	Client ID:
Arsenic, Total	0.580	120	131	109		132	110		80-120	1	20
Iron, Total	1800	1000	3050	125	Q	3010	121	Q	80-120	3	20
Dissolved Metals - Westborough GP-10-17-009-F	n Lab Associ	ated sample(s): 01,03,0	05,07 QC Bat	ch ID: V	√G425881-	3 WG425881-	4 Q	C Sample: L1	1011707-0	1 Client IE
Arsenic, Dissolved	ND	120	131	109		130	108	5.2	80-120	1	20
Iron, Dissolved	1620	1000	2800	118		2790	117		80-120	1	20

INORGANICS & MISCELLANEOUS

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-02

Client ID: Sample Location: GP-10-17-009-U DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 10:33

Date Received:

08/02/10

Field Prep:

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
				8 - 18					
General Chemistry - West	borough Lab	A	- 7			V PER IN	10.00		ille to eje
Solids, Total Suspended	9.8	mg/l	5,0	NA	1		08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	2.8	mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW
For the Book was	The second of		2 2			7 21	110		

Project Name: SHL TASK 0002

Lab Number:

L1011707

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-04

Client ID:

GP-10-17-019-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/02/10 11:38

Date Received:

08/02/10

Field Prep:

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
		4-4-3	- 114-	-					
General Chemistry - West	borough Lab	N.C.			197	I That I	7 194		1 1 2
Solids, Total Suspended	43	mg/l	5.0	NA	1	-	08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	1.2	mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-06

Client ID:

Sample Location:

GP-10-17-029-U DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 14:45

Date Received:

08/02/10

Field Prep:

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
2 12 2	II. A STOLE IN THE CAMPBELL AT			Bed E U S	resident of the second	THE RESERVE TO	of the later to	91 - 12 -	14
General Chemistry - Wes	tborough Lab	38.40		24 12		1867 1876	and the second	Section 1	10 15 B
Solids, Total Suspended	8.5	mg/l	5.0	NA	1		08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	1.1	mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW
4.6	1. 11				0.00		4		W

Project Name: SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011707-08

Client 1D:

DUP-080210-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 11:38

Date Received:

08/02/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	R-						I was		20 17
Solids, Total Suspended	11		mg/l	5.0	NA	1	4	08/03/10 15:00	30,2540D	DW
Dissolved Organic Carbon	1.2		mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011707

Report Date:

08/10/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	Vestborough Lab for san	ple(s): 02	2,04,06,08	B Batc	h: WG425	733-1			
Solids, Total Suspended	ND	mg/l	5.0	NA	1		08/03/10 15:00	30,2540D	DW
General Chemistry - V	Vestborough Lab for san	ple(s): 02	2,04,06,0	B Bato	h: WG426	455-1	21. 4	0	
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/02/10 21:30	08/06/10 08:22	30,5310C	DW
	The second secon				12.12				

Lab Control Sample Analysis
Batch Quality Control

Qual

Lab Number:

L1011707

Report Date:

Qual

RPD

08/10/10

RPD Limits

LCS	LCSD	%Recovery	

%Recovery

General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 Batch: WG426455-2

Dissolved Organic Carbon

Project Name:

Parameter

Project Number:

SHL TASK 0002

AC001

%Recovery

Qual

90-110

Limits

Matrix Spike Analysis Batch Quality Control

Project Name: SHL TA

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011707

Report Date:

08/10/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	RPD Qual Limits
General Chemistry - Westbo	rough Lab Asso	ciated sampl	e(s): 02,0	4,06,08 QC E	Batch ID:	WG426455-	3 QC San	ple: L	1011707-02	Client	ID: GP-10-17-
Dissolved Organic Carbon	2.8	4 .	6.9	101		-			79-120		20

Lab Duplicate Analysis Batch Quality Control

Batch Quality Contr

2.0

Lab Number:

L1011707

Report Date:

08/10/10

Parameter	·· Nat	ive Sample	Duplicate Sample	Units	RPD	Qual F	RPD Limits
General Chemistry - Westborough Lab 009-U	Associated sample(s):	02,04,06,08	QC Batch ID: WG425733-2	QC Sample	: L101170	07-02 Client II	D: GP-10-17-
Solids, Total Suspended	- 0	9.8	27	mg/l	93	Q	32
General Chemistry - Westborough Lab 009-U	Associated sample(s):	02,04,06,08	QC Batch ID: WG426455-4	QC Sample	: L101170	7-02 Client II	D: GP-10-17-
Dissolved Organic Carbon	*	2.8	2.8	mg/l	0		20

Project Name:

Project Number:

SHL TASK 0002

AC001

Project Name: SHL TASK 0002

Lab Number: L1011707 Project Number: AC001 Report Date: 08/10/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on:

Cooler Information Custody Seal

Cooler

A

Absent

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH.	deg C	Pres	Seal	Analysis(*)
L1011707-01A	Plastic 250ml HNO3 preserved	Α	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011707-01B	Plastic 250ml HNO3 preserved	Α	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011707-02A	Plastic 1000ml unpreserved	Α	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-02C	Vial H2SO4 preserved split	Α	N/A	2,0	Y	Present/Intact	DOC-5310(28)
L1011707-02D	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02E	Plastic 250ml HNO3 preserved	Α	<2	20	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011707-02G	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02H	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02I	Vial H2SO4 preserved split	Α	N/A	20	Y	Present/Intact	DOC-5310(28)
L1011707-02J	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-02L	Vial H2SO4 preserved split	Α	N/A	20	Y	Present/Intact	-
L1011707-02M	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	8
L1011707-02N	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	4
L1011707-020	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	*
L1011707-02P	Plastic 1000ml unpreserved	A	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-02W	Amber 250ml unpreserved	A	6	2.0	' Y-	Present/Initact	DOC-5310(28)
L1011707-02X	Amber 250ml unpreserved	Α	6	2.0	Y	Present/Infact	DOC-5310(28)
L1011707-03A	Plastic 250ml HNO3 preserved	Α	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011707-04A	Plastic 1000ml unpreserved	Α	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-04B	Vial H2SO4 preserved split	A	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-04C	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-04D	Plastic 250ml HNO3 preserved	Α	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011707-04X	Amber 250ml unpreserved	A	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-05A	Plastic 250ml HNO3 preserved	Α	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011707 Report Date: 08/10/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011707-06A	Plastic 1000ml unpreserved	Α	6	2.0	Y	Present/Intact	TSS-2540(7)
L1011707-06B	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-06C	Vial H2SO4 preserved split	Α	N/A	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-06D	Plastic 250ml HNO3 preserved	Α	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011707-06X	Amber 250ml unpreserved	Α	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-07A	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011707-08A	Plastic 1000ml unpreserved	Α	6	2.0	Y	PresenVIntact	TSS-2540(7)
L1011707-08B	Vial H2SO4 preserved split	Α .	N/A	2.0.	-Y	Present/Intact	DOC-5310(28)
L1011707-08C	Vial H2SO4 preserved split	- A	N/A	2.0	Y	· Present/Intact	DOC-5310(28)
L1011707-08D	Plastic 250ml HNO3 preserved	A	<2	2.0	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011707-08X	Amber 250ml unpreserved	Α	6	2.0	Y	Present/Intact	DOC-5310(28)
L1011707-09A	Plastic 250ml HNO3 preserved	A	<2	2.0	Υ	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)

Project Name:

SHL TASK 0002

Lab Number:

L1011707

Project Number:

AC001

Report Date:

08/10/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

MDL —Method Detection Limit. This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of
matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

 Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable.

RE Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD).
 Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.

Report Format.

DU Report with "J" Qualifiers



Project Name:

SHL TASK 0002

AC001

Lab Number:

L1011707

Project Number:

Report Date:

08/10/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

 Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND · Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: Project Number:

SHL TASK 0002

AC001

Lab Number:

L1011707

Report Date:

08/10/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

DLPHA

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held, For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574, NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270) Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium; Tin; Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics; Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, Ma-VPH: Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver. Sodium, Thallium, Tin, Vanadium. Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, Organic Parameters: PCBs, PCBs in Oil, Organichlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-C, 4500CN-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0, Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500NO3-F, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for; Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba, Be, Ca, Cd, Cr, Cu, Na, Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B.

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colliert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (<u>Inorganic Parameters</u>: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C; 1311, 3005A, 3050B, 3051A. <u>Organic Parameters</u>: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065 Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B, Organic Parameters: EPA 524.2, 504.1,)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B, Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited*. *Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2_D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B, Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. EPA 8330A: PETN. Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. EPA 8270C: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). EPA 625: 4-Chloroaniline. EPA 350.1 for Ammonia in a Soil matrix.

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ANALYTICAL REPORT

Lab Number:

L1011792

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/17/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011792

Report Date:

08/17/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011792-01	GP-10-11-039-F	DEVENS, MA	08/03/10 11:50
L1011792-02	GP-10-11-039-U	DEVENS, MA	08/03/10 11:50
L1011792-03	GP-10-11-049-F	DEVENS, MA	08/03/10 14:25
L1011792-04	GP-10-11-049-U	DEVENS, MA	08/03/10 14:25
L1011792-05	DUP3-080310-F	DEVENS, MA	08/03/10 14:25
L1011792-06	DUP3-080310-U	DEVENS, MA	08/03/10 14:25
L1011792-07	RB2-080310-U	DEVENS, MA	08/03/10 17:15

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011792

Report Date:

08/17/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The Dissolved Inorganic Carbon results will be issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

The samples for Dissolved Organic Carbon were originally logged and filtered with SDG L1011794.

Project Name:

SHL TASK 0002

Project Number: AC001

. . . .

Lab Number:

L1011792

Report Date:

08/17/10

Case Narrative (continued)

Dissolved Metals

L1011792-01, -03 and -05 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes. The requested reporting limits were achieved.

The WG425914-3/-4 MS/MSD recoveries for Iron (200%/10%), performed on L1011792-01, are invalid because the sample concentration is greater than four times the spike amount added.

Total Metals

L1011792-02, -04 and -06 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes. The requested reporting limits were achieved.

The WG425910-3/-4 MS/MSD recoveries for Iron (20%/40%), performed on L1011792-02, are invalid because the sample concentration is greater than four times the spike amount added.

Nitrogen, Nitrate

L1011792-02 was analyzed with the method required holding time exceeded.

Solids, Total Suspended

L1011792-02 could not be analyzed in duplicate, as requested by the client, due to limited sample volume available for analysis.

L1011792-04 has an elevated detection limit due to the dilution required by the elevated concentration present in the sample.

Alkalinity, Total

The WG426002-3 MS recovery (54%), performed on L1011792-02, is below the acceptance criteria. This has been attributed to matrix interference.

Sulfide

The WG426783-3 MS recovery (71%), performed on L1011792-02, is below the acceptance criteria; however, the associated LCS recovery was within criteria. No further action was taken.

Project Name:

SHL TASK 0002

Lab Number:

L1011792 08/17/10

Project Number:

AC001

Report Date:

Case Narrative (continued)

Dissolved Organic Carbon

L1011792-02 was analyzed in duplicate as requested by the client; however, the matrix spike was performed on L1011792-04 due to limited sample volume available for analysis.

WG427141-1: A filter blank is not reported for this batch due to limited volume available for analysis. (The filtered blank volume was utilized for the Dissolved Inorganic Carbon analysis).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Wholl M. Unimy Michelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 08/17/10

METALS

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Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011792

Report Date:

08/17/10

SAMPLE RESULTS

MDL

Dilution

Factor

Lab ID:

L1011792-01

Client ID:

GP-10-11-039-F DEVENS, MA

Qualifier

Units

Sample Location: Matrix:

Parameter

Water

Result

Date Collected:

08/03/10 11:50

Date Received:

08/03/10

Field Prep:

See Narrative

Analytical Method Date Prep Date Prepared Analyzed Method Analyst

Dissolved Metals - Westborough Lab

Arsenic, Dissolved 264 Iron, Dissolved 66400 ug/l 2.00 0.452 ug/l 200 33.6

RL

08/04/10 03:15 08/05/10 03:07 EPA 3005A 08/04/10 03:15 08/05/10 03:07 EPA 3005A

1,6020A ВМ 1,6020A ВМ

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011792

Report Date:

08/17/10

GP-10-11-039-U

Client ID: Sample Location:

DEVENS, MA

L1011792-02

Matrix:

Lab ID:

Water

Date Collected:

08/03/10 11:50

Date Received:

08/03/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough L	ab)	
Aluminum, Total	443		ug/I	40.0	7.64	4	08/04/10 03:15	5 08/04/10 22:35	EPA 3005A	1,6020A	ВМ
Arsenic, Total	263		ug/l	2.00	0.452	4	08/04/10 03:15	5 08/04/10 22:35	EPA 3005A	1,6020A	ВМ
Calcium, Total	19000		ug/l	400	50.6	4	08/04/10 03:15	5 08/04/10 22:35	EPA 3005A	1,6020A	ВМ
Chromium, Total	2 32		ug/I	2,00	0.744	4	08/04/10 03:15	5 08/04/10 22:35	EPA 3005A	1,6020A	вм
Iron, Total	67200		ug/I	200	33.6	4	08/04/10 03:18	5 08/04/10 22:35	EPA 3005A	1,6020A	вм
Lead, Total	0.74	J	ug/l	2.00	0.200	4	08/04/10 03:1	5 08/04/10 22:35	EPA 3005A	1,6020A	вм
Magnesium, Total	2610		ug/l	400	16.4	4	08/04/10 03:15	5 08/04/10 22:35	EPA 3005A	1,6020A	ВМ
Manganese, Total	2120		ug/l	4.00	0.544	4	08/04/10 03:1	5 08/04/10 22:35	EPA 3005A	1,6020A	ВМ
Nickel, Total	9.34		ug/l	2.00	0.720	4	08/04/10 03:1	5 08/04/10 22:35	EPA 3005A	1,6020A	ВМ
Potassium, Total	3070		ug/l	400	72.6	4	08/04/10 03:1	5 08/04/10 22:35	EPA 3005A	1,6020A	вм
Sodium, Total	8650		ug/l	400	72.8	4	08/04/10 03:18	5 08/04/10 22:35	EPA 3005A	1,6020A	ВМ

SAMPLE RESULTS

Project Name:

SHL TASK 0002

Lab Number:

L1011792

Project Number:

AC001

Report Date:

08/17/10

Lab ID:

SAMPLE RESULTS

Date Collected:

08/03/10 14:25

Client ID: Sample Location: L1011792-03 GP-10-11-049-F DEVENS, MA

Date Received:

08/03/10

Matrix:

Water

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	375		ug/l	2.00	0.452	4	08/04/10 03:1	5 08/05/10 03:31	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	49300		ug/l	200	33.6	4	08/04/10 03:1	5 08/05/10 03:31	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

Date Collected:

L1011792

Report Date:

08/17/10

SAMPLE RESULTS

Lab ID: Client ID: L1011792-04 GP-10-11-049-U

Matrix:

DEVENS, MA

Water

Sample Location:

Date Received: Field Prep:

08/03/10 14:25

08/03/10

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough L	_ab									
Aluminum, Total	44400		ug/l	40.0	7.64	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	ВМ
Arsenic, Total	688		ug/l	2.00	0.452	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	ВМ
Calcium, Total	26500		ug/l	400	50.6	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1.6020A	ВМ
Chromium, Total	271		ug/I	2.00	0.744	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	ВМ
Iron, Total	164000		ug/l	200	33,6	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	вм
Lead, Total	68.3		ug/l	2.00	0.200	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	ВМ
Magnesium, Total	13200		ug/l	400	16.4	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	вм
Manganese, Total	5240		ug/l	4.00	0.544	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	ВМ
Nickel, Total	134		ug/l	2.00	0.720	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	ВМ
Potassium, Total	11900		ug/I	400	72.6	4	08/04/10 03:1	5 08/04/10 22:59	EPA 3005A	1,6020A	вм
Sodium, Total	16600		ug/l	400	72.8	4	08/04/10 03:1:	5 08/04/10 22:59	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Lab Number:

L1011792

Project Number:

AC001

Report Date:

08/17/10

SAMPLE RESULTS

Lab ID: Client ID: L1011792-05

DUP3-080310-F DEVENS, MA

Matrix:

Sample Location:

Water

Date Collected:

08/03/10 14:25

Date Received:

08/03/10

Field Prep:

See Narrative

Analytical Method Dilution Prep Date Date Factor Prepared Analyzed Method Result Qualifier Units RL MDL Parameter Analyst Dissolved Metals - Westborough Lab Arsenic, Dissolved 396 2.00 0.452 4 08/04/10 03:15 08/05/10 03:37 EPA 3005A 1,6020A ВМ ug/l Iron, Dissolved 52200 200 33.6 4 08/04/10 03:15 08/05/10 03:37 EPA 3005A 1,6020A BM ug/l

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011792

Report Date:

08/17/10

SAMPLE RESULTS

Lab ID:

L1011792-06

Client ID:

DUP3-080310-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/03/10 14:25

Date Received:

08/03/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough l	_ab									
Aluminum, Total	35200		ug/l	40.0	7.64	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм
Arsenic, Total	641		ug/l	2.00	0.452	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм
Calcium, Total	26100		ug/l	400	50.6	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм
Chromium, Total	254		ug/I	2.00	0.744	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм
Iron, Total	149000		ug/I	200	33.6	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм
Lead, Total	58.0		ug/l	2.00	0,200	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	ВМ
Magnesium, Total	9680		ug/I	400	16.4	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	ВМ
Manganese, Total	5260		ug/l	4.00	0.544	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм
Nickel, Total	112		ug/l	2,00	0.720	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм
Potassium, Total	10700		ug/l	400	72.6	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	ВМ
Sodium, Total	16000		ug/l	400	72.8	4	08/04/10 03:1	5 08/04/10 23:05	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011792

Project Number:

Sample Location:

AC001

Report Date:

08/17/10

SAMPLE RESULTS

Lab ID:

L1011792-07

Client ID:

RB2-080310-U

Matrix:

DEVENS, MA

Water

Date Collected:

08/03/10 17:15

Date Received:

08/03/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	tborough l	_ab									
Aluminum, Total	4.07	J	ug/l	10.0	1.91	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	вм
Arsenic, Total	0.17	J	ug/l	0.500	0.113	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	ВМ
Calcium, Total	19	J	ug/l	100	12.6	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	вм
Chromium, Total	0.22	J	ug/l	0.500	0.186	-1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	вм
Iron, Total	9.89	J	ug/l	50.0	8.41	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	вм
Lead, Total	ND		ug/l	0.500	0.050	Ť	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	вм
Magnesium, Total	ND		ug/l	100	4.10	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	вм
Manganese, Total	0.47	J	ug/l	1.00	0.136	. 1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	ВМ
Nickel, Total	ND		ug/l	0.500	0.180	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	ВМ
Potassium, Total	ND		ug/l	100	18.2	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	вм
Sodium, Total	ND		ug/l	100	18.2	1	08/04/10 03:1	5 08/04/10 23:11	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011792

Project Number: AC001

Report Date:

08/17/10

Method Blank Analysis **Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborou	igh Lab fo	or sample(s):	02,04,0	06-07 E	Batch:	WG425910	-1			
Aluminum, Total	2.91	J	ug/l	10.0	1.91	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Calcium, Total	ND		ug/l	100	12.6	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Chromium, Total	ND		ug/l	0.500	0.186	1	08/04/10 03:15	08/04/10 21:10	1,6020A	ВМ
Iron, Total	9.87	J	ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Lead, Total	ND		ug/l	0.500	0.050	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Magnesium, Total	ND		ug/l	100	4.10	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Manganese, Total	ND		ug/l	1.00	0.136	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Nickel, Total	ND		ug/l	0.500	0.180	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Potassium, Total	ND		ug/l	100	18.2	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм
Sodium, Total	ND		ug/l	100	18.2	1	08/04/10 03:15	08/04/10 21:10	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - W	estborough Lab for samp	ole(s): 01	,03,05	Batch:	WG42591	14-1			
Arsenic, Dissolved	ND	ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:22	1,6020A	вм
Iron, Dissolved	ND	ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:22	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011792

Report Date:

08/17/10

Parameter	LCS %Recovery Qual	LCSD %Recovery Q	%Recovery ual Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associa	ated sample(s); 02,04,06-0	07 Batch: WG425910	0-2			
Aluminum, Total	93	1	80-120	*		
Arsenic, Total	98	2	80-120			
Calcium, Total	106 :	3	80-120	+		
Chromium, Total	96	i.e	80-120			
Iron, Total	105	4	80-120			
Lead, Total	100	4	80-120	-		
Magnesium, Total	102	12	80-120	(7)		
Manganese, Total	102		80-120			
Nickel, Total	102	140	80-120	-		
Potassium, Total	101	8	80-120	1.4		
Sodium, Total	101	σ.	80-120	÷		
Dissolved Metals - Westborough Lab As	sociated sample(s): 01,03	,05 Batch: WG42591	4-2			
Arsenic, Dissolved	.99	*	80-120	W.		
Iron, Dissolved	104		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011792

Report Date:

08/17/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough La 10-11-039-U	ab Associated	sample(s);	02,04,06-07	QC Batch ID): WG4	25910-3	WG425910-4	QC Sar	nple: L1011	792-02	Clien	t ID: GP-
Aluminum, Total	443	2000	2300	93		2260	91		80-120	2		20
Arsenic, Total	263	120	390	106		386	102		80-120	1		20
Calcium, Total	19000	10000	29500	105		29000	100		80-120	2		20
Chromium, Total	2.32	200	193	95		194	96		80-120	- 1		20
Iron, Total	67200	1000	67400	20		67600	40		80-120	0		20
Lead, Total	ND	510	520	102		513	100		80-120	Ť		20
Magnesium, Total	2610	10000	12800	102		12600	100		80-120	2		20
Manganese, Total	2120	500	2570	90		2600	96		80-120	1		20
Nickel, Total	9.34	500	518	102		519	102		80-120	0		20
Potassium, Total	3070	10000	13200	101		13200	101		80-120	0		20
Sodium, Total	8650	10000	18600	100		18600	100		80-120	0		20
Dissolved Metals - Westborou 10-11-039-F	gh Lab Assoc	iated sample	e(s): 01,03,0	95 QC Batch	ID: WG	425914-3	WG425914-4	QC Sa	ample: L101	1792-01	1 Clie	ent ID: GF
Arsenic, Dissolved	264	120	394	108		389	104		80-120	1		20
Iron, Dissolved	66400	1000	68400	200		66500	10		80-120	3		20

INORGANICS & MISCELLANEOUS

Project Name:

SHL TASK 0002

Project Number: AC001 Lab Number:

L1011792

Report Date:

08/17/10

SAMPLE RESULTS

Lab ID:

L1011792-02

Client ID:

GP-10-11-039-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 11:50

Date Received:

08/03/10

Not Specified

Field Prep.

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	170	r	ng CaCO3/L	2.0	NA	1	1+31	08/04/10 08:50	30,2320B	SD
Solids, Total Suspended	200		mg/l	5.0	NA	1	*	08/09/10 18:00	30,2540D	DW
Nitrogen, Ammonia	2.29		mg/l	0.075	0.017	1	08/04/10 15:05	08/04/10 22:29	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/03/10 22:23	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1		08/06/10 15:23	44,410.4	DW
Dissolved Organic Carbon	3.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW
Anions by Ion Chromatog	graphy - West	borough I	Lab							
Chloride	21		mg/l	0.50	0.07	1		08/05/10 13:59	44,300.0	AU
Nitrogen, Nitrate	0.031	J	mg/l	0.05	0.01	1	+	08/05/10 13:59	44,300.0	AU
Sulfate	6.5		mg/l	1.0	0.12	1	*	08/13/10 21:22	44,300.0	AU

Project Name: SHL TASK 0002

Lab Number:

L1011792

Project Number: AC001

Report Date:

08/17/10

SAMPLE RESULTS

Lab ID:

L1011792-04

Client ID: Sample Location:

GP-10-11-049-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 14:25

Date Received:

08/03/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	10								
Alkalinity, Total	180	n	ng CaCO3/L	2.0	NA	1	-	08/04/10 08:50	30,2320B	SD
Solids, Total Suspended	7700		mg/l	50	NA	10		08/09/10 18:00	30,2540D	DW
Nitrogen, Ammonia	3.36		mg/l	0.075	0.017	1	08/04/10 15:05	08/04/10 22:32	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		08/03/10 22:24	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500\$2-AD	AT
Chemical Oxygen Demand	160		mg/l	20	7.0	1		08/06/10 15:28	44,410.4	DW
Dissolved Organic Carbon	2.8		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW
Anions by Ion Chromatog	graphy - West	borough t	Lab							
Chloride	13		mg/l	0.50	0.07	1	8	08/05/10 13:11	44,300.0	AU
Nitrogen, Nitrate	0.046	J	mg/l	0.05	0.01	1	2	08/05/10 13:11	44,300.0	AU
Sulfate	19		ma/l	1.0	0.12	1	-	08/13/10 20:34	44.300.0	AU

Project Name:

SHL TASK 0002

Lab Number:

L1011792

Project Number: AC001

Report Date: 08/17/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab for sa	mple(s): 02	,04 Bat	tch: WG	425875-2				
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	71	08/03/10 22:22	30,4500NO2-B	DD
General Chemistry - We	stborough Lab for sa	mple(s): 02	,04 Ba	tch: WG	426002-1				
Alkalinity, Total	ND	mg CaCO3/L	2.0	NA	1	÷	08/04/10 08:50	30,2320B	SD
General Chemistry - We	stborough Lab for sa	ample(s): 02	,04 Ba	tch: WG	426067-1				
Nilrogen, Ammonia	ND	mg/l	0.075	0.017	1	08/04/10 15:05	08/04/10 22:26	30,4500NH3-BH	TA I
Anions by Ion Chromato	graphy - Westboroug	h Lab for sa	mple(s)	: 02,04	Batch: W	/G426316-1			
Chloride	ND	mg/l	0.50	0.07	1	+	08/05/10 12:11	44,300.0	AU
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	14	08/05/10 12:11	44,300.0	AU
General Chemistry - We	stborough Lab for sa	ample(s): 02	,04 Ba	tch: WG	6426358-1				
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	-	08/06/10 15:21	44,410.4	DW
General Chemistry - We	stborough Lab for sa	ample(s): 02	,04 Ba	tch: WG	6426636-1				
ilids, Total Suspended	ND	mg/l	5.0	NA	1		08/09/10 18:00	30,2540D	DW
General Chemistry - We	stborough Lab for sa	ample(s): 02	,04 Ba	tch: WG	6426783-1				
Sulfide	ND	mg/l	0.10	0.10	10	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
General Chemistry - We	stborough Lab for sa	ample(s): 02	,04 Ba	tch: WG	6427141-1				
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/04/10 01;00	08/11/10 06:53	30,5310C	DW
Anions by Ion Chromato	graphy - Westboroug	h Lab for sa	ample(s)	: 02,04	Batch: W	VG427653-1			
Sulfate	ND	mg/l	1.0	0.12	1	4	08/13/10 17:22	44,300.0	AU

Lab Control Sample Analysis Batch Quality Control

19-1

Lab Number:

L1011792

Report Date:

08/17/10

Project Name: SHL TASK 0002

Project Number: AC001

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s)	: 02,04	Batch: WG4258	75-1				
Nitrogen, Nitrite	100		-8		90-110	- 6		20
General Chemistry - Westborough Lab	Associated sample(s)	: 02,04	Batch: WG4260	02-2				
Alkalinity, Total	107		4		80-115	4-6		4
General Chemistry - Westborough Lab	Associated sample(s)	: 02,04	Batch: WG4260	67-2				
Nitrogen, Ammonia	97 .				80-120			20
Anions by Ion Chromatography - Westb	orough Lab Associate	ed sample	e(s): 02,04 Batcl	: WG4	26316-2			
Chloride	95				90-110	-		
Nitrogen, Nitrate	92		-4		90-110	1.		
General Chemistry - Westborough Lab	Associated sample(s)	: 02,04	Batch: WG4263	58-2				
Chemical Oxygen Demand	96		Đ.		95-105			
General Chemistry - Westborough Lab	Associated sample(s)	02,04	Batch: WG4267	33-2				
Sulfide	87				75-125			
General Chemistry - Westborough Lab	Associated sample(s)	02,04	Batch: WG4271	41-2				
Dissolved Organic Carbon	98		9-		90-110	×		

Lab Control Sample Analysis Batch Quality Control

Lab Number:

L1011792

Report Date:

08/17/10

Project Number: AC001

LCS %Recovery **Parameter**

SHL TASK 0002

LCSD %Recovery %Recovery Limits

RPD

RPD Limits

Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02,04 Batch: WG427653-2

Sulfate

Project Name:

27

90-110

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

112

Project Number:

AC001

Lab Number:

L1011792

Report Date:

08/17/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		overy nits RP	D Qual	RPD Limits
General Chemistry - Westbor	ough Lab Asso	ciated samp	le(s): 02,04	QC Batch II	D: WG4	25875-3	QC Sample: L	1011792-02	Client ID	GP-10-	11-039-U
Nitrogen, Nitrite	ND	0.1	0.10	100		3		85	-115 -		20
General Chemistry - Westbor	ough Lab Asso	ciated samp	le(s): 02,04	QC Batch II	D: WG4	26002-3	QC Sample: L	1011792-02	Client ID	GP-10-	11-039-L
Alkalinity, Total	170	100	220	54	Q	*	· ·	86	-116 -		4
General Chemistry - Westbor	ough Lab Asso	ciated samp	le(s): 02,04	QC Batch II	D: WG4	26067-3	QC Sample: L	1011792-02	Client ID	GP-10-	11-039-L
Nitrogen, Ammonia	2.29	4	5.88	90		-		80	-120 -		20
Anions by Ion Chromatograph Client ID: GP-10-11-039-U	hy - Westborou	gh Lab Asso	ciated sam	ple(s): 02,04	QC Bat	tch ID: W	G426316-3 WG	426316-4	QC Sample	L101179	92-02
Chloride	21	4	26	125		25	100	40	-151 4		18
Nitrogen, Nitrate	ND	0.4	0.39	98		0.39	98	80	-122 0		15
General Chemistry - Westbor	ough Lab Asso	ciated samp	le(s): 02,04	QC Batch II	D: WG4	26358-3	QC Sample: L	1011792-02	Client ID	GP-10-	11-039-U
Chemical Oxygen Demand	ND	238 -	240	102			*	80	-120 -		20
General Chemistry - Westbor	ough Lab Asso	ciated samp	le(s): 02,04	QC Batch II	D: WG42	26783-3	QC Sample: L	1011792-02	Client ID:	GP-10-	11-039-U
Sulfide	ND	0.24	0.17	71	Q	÷	*	75	125 -		20
General Chemistry - Westbor	ough Lab Asso	ciated samp	le(s): 02,04	QC Batch II	D: WG42	27141-3	QC Sample: L	1011792-04	Client ID:	GP-10-	11-049-U
Dissolved Organic Carbon	2,8	4 .,	6.7	98		-	-	79-	120 -		20
Anions by Ion Chromatograph Client ID: GP-10-11-039-U	ny - Westborou	gh Lab Asso	ciated samp	ole(s): 02,04	QC Bat	ch ID: W	G427653-3 WG	427653-4	QC Sample:	L101179	92-02
Sulfate	6.5	8	15	106		15	106	60-	140 0		20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011792

Report Date:

08/17/10

Parameter	Nat	ive San	nple [ouplicate Samp	ole Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG425875-4	QC Sample:	L1011792-02	Client ID:	GP-10-11-039-U
Nitrogen, Nitrite	3.0	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG426002-4	QC Sample:	L1011792-02	Client ID:	GP-10-11-039-U
Alkalinity, Total		170		170	mg CaCO	3/L 0		4
General Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG426067-4	QC Sample:	L1011792-02	Client ID:	GP-10-11-039-U
Nitrogen, Ammonia		2.29		2.08	mg/l	10		20
Anions by Ion Chromatography - Westt 11-039-U	orough Lab Associated	d sampl	e(s): 02,04 C	QC Batch ID: W	/G426316-5	QC Sample: L	1011792-0	2 Client ID: GP-10-
Chloride	- A	21.		22	mg/l	5		18
Nitrogen, Nitrate	1	0.031J		0.031J	mg/l	NC		15
General Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG426358-4	QC Sample:	L1011792-02	Client ID:	GP-10-11-039-U
Chemical Oxygen Demand		ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG426636-2	QC Sample:	L1011792-04	Client ID:	GP-10-11-049-U
Solids, Total Suspended		7700		7200	mg/l	7		32
General Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG426783-4	QC Sample:	L1011792-02	Client ID:	GP-10-11-039-U
Sulfide	-	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG427141-4	QC Sample:	L1011792-02	Client ID:	GP-10-11-039-U
Dissolved Organic Carbon		3.6		3.4	mg/l	6		20

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1011792

Report Date:

08/17/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab 11-039-U	Associated sample(s): 02,04	QC Batch ID: WG427	7653-5	QC Sample: L1011792-02	Client ID: GP-10-
Sulfate	6.5	6.6	mg/l	2	20

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Project Name:

Project Number:

SHL TASK 0002

AC001

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011792 **Report Date**: 08/17/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

Α

Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
L1011792-01A	Plastic 250ml HNO3 preserved	Α	<2	.3	Y	Present/Intact	DOD-FE-6020S(180), DOD-AS- 6020S(180)
L1011792-01B	Plastic 250ml HNO3 preserved	Α	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011792-02A	Plastic 1000ml unpreserved	Α	7	3	Y	Present/Intact	TSS-2540(7)
L1011792-02B	Plastic 500ml unpreserved	Α	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1011792-02C	Plastic 500ml H2SO4 preserved	Α	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011792-02D	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011792-02E	Plastic 500ml HNO3 preserved	Α	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI- 6020T(180),DOD-CA- 6020T(180),DOD-MN- 6020T(180),DOD-AL- 6020T(180),DOD-AS- 6020T(180),DOD-CR-
	7 11/10		-	-		. W	6020T(180),DOD-K-
1 4 4	9. 27. 27. 32	= 4.5		5-	- 12	- <u>5</u>	6020T(180),DOD-MG- 6020T(180),DOD-FE- 6020T(180),DOD-PB- 6020T(180)
L1011792-02F	Plastic 250ml unpreserved	A	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1011792-02G	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-02H	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-02I	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-02J	Plastic 250ml unpreserved	Α	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1011792-03A	Plastic 500ml HNO3 preserved	Α	<2	3	Y	Present/Intact	DOD-FE-6020S(180), DOD-AS- 6020S(180)
L1011792-04A	Plastic 1000ml unpreserved	Α	7	3	Y	Present/Intact	TSS-2540(7)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011792 **Report Date:** 08/17/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011792-04B	Plastic 500ml unpreserved	Α	7	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3-300(2)
L1011792-04C	Plastic 500ml H2SO4 preserved	Α	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011792-04D	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011792-04F	Plastic 250ml unpreserved	A	7	3	Y	Present/Intact	NO2-4500NO2(2)
L1011792-04G	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-04H	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-04I	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011792-04J	Plastic 250ml unpreserved	Α	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1011792-05A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011792-06A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011792-07A	Plastic 500ml HNO3 preserved	A	<2	3	Υ	Present/Intact	DOD-NA-6020T(180),DOD-NI- 6020T(180),DOD-CA- 6020T(180),DOD-MN- 6020T(180),DOD-AL- 6020T(180),DOD-AS- 6020T(180),DOD-CR-
e. 1		- 176	45			profit to the	6020T(180),DOD-K- 6020T(180),DOD-MG- 6020T(180),DOD-FE- 6020T(180),DOD-PB- 6020T(180)

Project Name:

SHL TASK 0002

Lab Number:

L1011792

Project Number:

AC001

Report Date:

08/17/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate; Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

 Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable.

Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to
assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD).
 Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the
absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria: however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL, (Metals only.)
- R Analytical results are from sample re-analysis.

Report Format:

DU Report with "J" Qualifiers

Project Name: SHL TASK 0002 Lab Number: L1011792
Project Number: AC001 Report Date: 08/17/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

 Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011792

Report Date:

08/17/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ДЕРНА

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574, NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate, Organic Parameters, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organic Parameters: PCBs, PCBs in Oil, Organic Parameters: PCBs, PCBs in Oil, Organic Parameters: PCBs, PCBs, NA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353,2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500NH3-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,TI)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Ti, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300,0, 200,7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1.

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410,4, SM5220D, 4500Cl-D, EPA 300,0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. <u>Organic Parameters</u>: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B.

Organic Parameters: EPA 524.2, 504.1.)

Non-Polable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B; 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA

8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. NELAP Accredited, Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065, NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited*. *Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

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(Lab Use Only)		Date	Time	Matrix	Initials	10	1 1	18	7	1-1	7	1	17	+	<i>Y</i>	/ Sample Specific Comments	
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3	GP-10-11-049-F	8/3/10	1425	GW	JTC						4		1				
4	GP-1041-049-U	8/3/10	1425	GW	220	V	V	V	V	V	VV	V					
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ANALYTICAL REPORT

Lab Number:

L1011794

Client:

Sovereign Consulting

905B South Main Street Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/10/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011794

Report Date:

08/10/10

Sample Collection Location Date/Time Sample ID Client ID

L1011794-01

Alpha

GP-10-11-039-U

DEVENS, MA

08/03/10 11:50

DEVENS, MA L1011794-02 GP-10-11-049-U

08/03/10 14:25

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011794

Report Date:

08/10/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220

Report Submission

This report contains the results for the Dissolved Inorganic Carbon analysis. The results for all other analyses will be issued under separate cover.

Dissolved Inorganic Carbon

L1011794-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

WG426758: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD. The Laboratory Duplicate was performed on L1011794-02 due to insufficient sample volume for L1011794-01.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle UK. Whomis Michelle M. Morris

Title: Technical Director/Representative

ALPHA

Date: 08/10/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011794

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011794-01 GP-10-11-039-U

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 11:50

Date Received:

08/03/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	63		mg/l	20	7	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011794

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011794-02

Client ID:

GP-10-11-049-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/03/10 14:25

Date Received:

08/03/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	52		mg/l	20		20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011794 08/10/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sar	nple(s): 01-02 Bate	h: WG42	6758-1						
Dissolved Inorganic Carbon	ND	mg/l	1.0	14	1	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Lab Control Sample Analysis Batch Quality Control

Lab Number:

L1011794

Report Date:

08/10/10

Project Name: SHL TASK 0002

Project Number: AC001

LCS LCSD %Recovery Limits **Parameter** %Recovery %Recovery Qual RPD **RPD Limits** Qual Qual

Batch: WG426758-2 Associated sample(s): 01-02

Dissolved Inorganic Carbon

110

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1011794

Report Date:

08/10/10

Parameter	Na Na	tive Sample	Duplicate Samp	le Units	RPD	Qual	RPD Limits
Associated sample(s): 01-02	QC Batch ID: WG426758-3	QC Sample:	L1011794-02 Client ID:	GP-10-11-049-U			
Dissolved Inorganic Carbon	1 = 4	52	51	mg/l	2		

Project Name:

Project Number:

SHL TASK 0002

AC001

Lab Number: L1011794

Project Name: SHL TASK 0002

Project Number: AC001 Report Date: 08/10/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011794-01A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01W	Amber 250ml unpreserved	Α	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01X	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01Y	Vial H2SO4 preserved split	Α	N/A	3	Y	Present/Intact	SPECWC()
L1011794-01Z	Vial H2SO4 preserved split	Α	N/A	3	Y	Present/Intact	SPECWC()
L1011794-02A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	SPECWC()
L1011794-02Y	Vial H2SO4 preserved split	Α	N/A	3	Y	Present/Intact	SPECWC()
L1011794-02Z	Vial H2SO4 preserved split	Α	N/A	3	Y	Present/Intact	SPECWC()

Project Name:

SHL TASK 0002

Lab Number:

L1011794

Project Number:

AC001

Report Date:

08/10/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable.

RE Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.

Report Format: Data Usability Report

 $\Delta LPHA$

L1011794

Lab Number:

Project Name: SHL TASK 0002

Project Number: AC001 Report Date: 08/10/10

Data Qualifiers

RE Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Number:

SHL TASK 0002

AC001

Lab Number:

L1011794

Report Date:

08/10/10

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WPCF, 18th Edition, 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate.

Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foarning Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-Tp (Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform – MF mendo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF mendo (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organic Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500NH3-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics) (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200,7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHA

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rey,7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B, Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A; SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited. Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2 D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. EPA 8330A: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. EPA 8270C: Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). EPA 625: 4-Chloroaniline. EPA 350.1 for Ammonia in a Soil matrix.

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ESTBORO, MA	MANSFIELD, MA	Project Information				Re	port	Infor						oles		ng Informa		
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Note: All CAM me	ethods for inorganic analyses require M	s every 20 soil samples) X Done as netod	-F=F	1 tou		24.37	14	1	1	3/	1	1	2/2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/	11	☐ Lab to do Preservation	۱
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2.	69-10-11-049-U DUP3-080310-F	8/3/10 8/3/10	1425	GW.	325	V	V	V		V		~	V					
2.	GP-10-11-049-U DUP3-080310-F DUP3-080310-U	8/3/10 8/3/10 8/3/10	1425	GW.	22.C	V	ν	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		V		~	V					
2.	GP-10-11-049-U DUP3-080310-F DUP3-080310-U	8/3/10 8/3/10 8/3/10	1425	GW.	22.C		ν						V					
2	GP-10-11-049-U DUP3-080310-F DUP3-080310-U RB2-080310-U	8/3/10 8/3/10 8/3/10	1425	GW GW	35C 35C	V	V	V				~	V					
2	GP-10-11-049-U DUP3-080310-F DUP3-080310-U	8/3/10 8/3/10 8/3/10	1425	GW GW GW	JJC JJC JJC	P	P &	8	P P	P	P	A	2 4				Tiple birth willing sexual	evilin
PLEASE ANSWES YOUR	GP-10-11-049-U DUP3-080310-F DUP3-080310-U RB2-080310-U ER QUESTIONS ABOVEI	8/3/10 8/3/10 8/3/10	1425	GW GW GW	35C 35C	PA	e A	8 A	₹ D .	P F/E		AAA	PYV	Date	(Time	Transiti	উন্নিট্রাক্তির উদ্ধানের এই চেন্ট্র ক্রেট্রাক্তিক ব্রাক্তিক সংক্রিট	evilin
PLEASE ANSWES YOUR	GP-10-11-089-U DUP3-080310-F DUP3-080310-U RB2-080310-U	8/3/10 8/3/10 8/3/10	1425	GW GW GW	JJC JJC JJC ainer Type reservative	V P A	V e A	8 A	f D	P F/E		AAA	PFC	Date	o/Time	The Print	Spinophy St. 1 at Millian	2 m m (electrical)



ANALYTICAL REPORT

Lab Number:

L1011804

Client:

Sovereign Consulting

905B South Main Street Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/10/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



SHL TASK 0002

Lab Number:

L1011804

Project Number:

AC001

Report Date:

08/10/10

Case Narrative (continued)

L1011804-09 has an elevated detection limit due to the dilution required by the sample matrix. WG426758 and WG426927: An LCS and Laboratory Duplicate were performed in lieu of an MS/MSD. The Filter Blank was reported with the WG426758 sample batch.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Wichelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 08/10/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number:

L1011804 Project Number: AC001 Report Date: 08/10/10

SAMPLE RESULTS

Lab ID: Client ID: L1011804-01 GP-10-17-039-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 15:36

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	72		mg/l	20	**	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011804

Report Date:

08/10/10

SAMPLE RESULTS

MDL

20

Dilution

Factor

20

Lab ID:

L1011804-02 GP-10-17-049-U

Result

Qualifier

Units

mg/l

Date Collected:

08/02/10 16:24

DW

Client ID: Sample Location:

DEVENS, MA

Date Received: Field Prep:

08/03/10 Not Specified

Matrix:

Parameter

General Chemistry Dissolved Inorganic Carbon Water

72

Date	Date	Analytical	
Prepared	Analyzed	Method	Analyst

08/04/10 01:00 08/09/10 07:28 30,5310C(M)

Project Name: SHL TASK 0002

Lab Number:

L1011804

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011804-03 GP-10-17-056-U

Date Collected: Date Received: 08/02/10 17:16

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

08/03/10 Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	77		mg/l	20		20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011804

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011804-04 GP-10-18-007-U

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 18:35

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	24		mg/l	20	**	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011804

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID: Client ID: L1011804-05 GP-10-18-017-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 08:30

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	32		mg/l	20	120	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011804

Project Number: AC001 Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011804-06

Client ID:

GP-10-18-027-U

Sample Location: Matrix:

DEVENS, MA

Date Collected:

08/03/10 09:28

Date Received:

08/03/10

Field Prep:

Not Specified

Water

Parameter	Result	Qualifler	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	76		mg/l	20	-	20	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011804

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011804-07

Date Collected: Date Received: 08/03/10 10:25

Client ID:

GP-10-18-037-U DEVENS, MA

08/03/10

Sample Location: Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	57		mg/l	20	-22	20	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011804

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011804-08

Client ID:

GP-10-18-047-U

Sample Location: Matrix:

DEVENS, MA Water

Date Collected:

08/03/10 11:30

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	98		mg/l	20	-	20	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011804

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID:

L1011804-09

Client ID:

GP-10-19-009-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/03/10 14:09

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	6.4		mg/l	5.0	**	5	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002 Lab Number:

L1011804

Project Number: AC001

Report Date:

08/10/10

SAMPLE RESULTS

Lab ID: Client ID: L1011804-10 GP-10-19-019 U

Date Collected:

08/03/10 15:00

Sample Location:

DEVENS, MA

Date Received:

08/03/10

Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	26		mg/l	20	-	20	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011804

Project Number: AC001

Report Date:

08/10/10

Method Blank Analysis Batch Quality Control

Parameter General Chemistry for sam	Result Qualifier	Units	RL S7E9.4	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Inorganic Carbon	ND	mg/l	1.0	-	1	08/04/10 01:00	08/09/10 07:28	30,5310C(M)	DW
General Chemistry for sam	nple(s): 07-10 Bat	ch: WG42	6927-1						
Dissolved Inorganic Carbon	ND	mg/l	1.0	10	1	08/04/10 01:00	08/10/10 06:59	30,5310C(M)	DW

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011804

Report Date:

08/10/10

Parameter		LCS. %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Associated sample(s): 01-06	Batch:	WG426758-2							
Dissolved Inorganic Carbon		110					3.		
Associated sample(s): 07-10	Batch:	WG426927-2							
Dissolved Inorganic Carbon		98					4		

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1011804

Report Date:

08/10/10

Parameter	Nat	Native Sample		ate Sampi	e Units	RPD	Qual	RPD Limits
Associated sample(s): 01-06	QC Batch ID: WG426758-3	QC Sample:	L1011794-02	Client ID:	DUP Sample			
Dissolved Inorganic Carbon		52		51	mg/l	2		
Associated sample(s): 07-10	QC Batch ID: WG426927-3	QC Sample:	L1011692-36	Client ID:	DUP Sample			
Dissolved Inorganic Carbon		62		53	mg/l	16		

3.7

22.5

Project Name:

Project Number:

SHL TASK 0002

AC001

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011804

Report Date: 08/10/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A

Absent

C	ontainer Info	ormation			Temp					
C	ontainer ID	Container Type	Cooler	рН	deg C	Pres	Seal		Analysis(*)	
L	1011804-01A	Amber 250ml unpreserved	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-01W	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	I011804-01X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-01Y	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-01Z	Vial H2SO4 preserved split	Α	N/A	22	Y	Absent		SPECWC()	
L	I011804-02A	Amber 250ml unpreserved	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-02W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-02X	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-02Y	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-02Z	Vial H2SO4 preserved split	A	N/A	22	Y	Absent		SPECWC()	
L	I011804-03A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-03W	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-03X	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L"	1011804-03Y	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-03Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent		SPECWC()	
Ľ	1011804-04A	Amber 250ml unpreserved	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-04W	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent	-	SPECWC()	
L	1011804-04X	Vial H2SO4 preserved split	Α.	N/A	2.2	· Y	Absent		SPECWC()	
L	1011804-04Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-04Z	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-05A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent		SPECWC()	
L.	011804-05W	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-05X	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-05Y	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-05Z	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-06A	Amber 250ml unpreserved	Α	N/A	2.2	Y	Absent		SPECWC()	
L	1011804-06W	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent		SPECWC()	

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011804 Report Date: 08/10/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011804-06X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-06Y	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent	SPECWC()
L1011804-06Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-07Y	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent	SPECWC()
L1011804-07Z	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent	SPECWC()
L1011804-08A	Amber 250ml unpreserved	Α	N/A	2.2	Y	Absent	SPECWC()
L1011804-08W	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent	SPECWC()
L1011804-08X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-08Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-08Z	Vial H2SO4 preserved split	Α	N/A	2.2	Y	Absent	SPECWC()
L1011804-09A	Amber 250ml unpreserved	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09W	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-09Z	Vial H2SO4 preserved split	Α	N/A	22	Y	Absent	SPECWC()
L1011804-10A	Amber 250ml unpreserved	Α	N/A	2.2	Y	Absent	SPECWC()
L1011804-10W	Vial H2SO4 preserved split	A	N/A	2.2	Υ	Absent	SPECWC()
L1011804-10X	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-10Y	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()
L1011804-10Z	Vial H2SO4 preserved split	A	N/A	2.2	Y	Absent	SPECWC()

Container Comments

L1011804-07Z



SHL TASK 0002

SHE TASK U

Lab Number:

L1011804 08/10/10

Project Number:

AC001

Report Date:

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS Laboratory Control Sample: A sar

 Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Mairix Spike Sample Duplicate: Refer to MS.

NA -Not Applicable.

 NOT Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration.
 The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendam.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E. Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- 1 The RPD between the results for the two columns execeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.

Report Format: Data Usability Report

ALPHA

Project Name: SHL TASK 0002 Lab Number: L1011804
Project Number: AC001 Report Date: 08/10/10

Data Qualifiers

RE • Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

SHL TASK 0002

Lab Number:

L1011804

Project Number:

AC001

Report Date:

08/10/10

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

DUPHA

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color. pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Gyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, Organic Parameters: PCBs, PCBs in Oil, Organichlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinaled Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0 Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachal 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters; ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for; Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N,

SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colifert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010. 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 8270C, 5030B, 5035, 8021B, 8260B, 8330, 8151A,

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314,0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1,

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Ci-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters, SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065, Organic Parameters; SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev 7.)

New York Department of Health Certificate/Lab ID: 11148, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666, Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671, NELAP Accredited. Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065, NELAP Accredited via NY-DOH. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited. Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2^TD, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. EPA 8330A: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. EPA 8270C: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). EPA 625: 4-Chloroaniline. EPA 350.1 for Ammonia in a Soil matrix.

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WESTBORO, MA TEL: 508-898-9220 CFAX: 508-898-9193	TEL: 506-822-9300 FAX: 508-822-3288	Project Nan		CONT.	90.		FAX SEMAIL EOR					☐ Same as Client info PO#:							
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Client: Sover	Ellient: Sovereign Consulting Ire Project #: 4-Coul			ect#: ACON					Regulatory Requirements/Report Limits										
	B 8. Main Street	Project Mar	Manager: Phil McBain						State / Fed Program Criteria SEE QAIP MA MCP PRESUMPTIVE CERTAINTY CT REASONABLE CONFIDENCE PR										
2 Mansfield MA 02048 ALPHA Quote #												-			44.74		BLE CU	NFIDENCE PRO	10
Phone: 508-339-3200 Turn-Around Time							Yes I No Are MCP Analytical Methods Required? Selection No is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)											nts)	
Fax: 508 -339 - 3248 ■ Standard □ RUSH (6				RUSH	confirmed if pre-s	Преказа	☐ Yes YONO Are CT RCP (Reasonable Confidence Protocols) Required?												
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	69-10-17-056-F	8	1/1/10	1716	6W	EEF				V									1
	68-10-17-056-4	7	1/2/10	17/6	64	EBF	V	1	/										3
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WESTBORO, MA	MANSFIELD, MA	Project Info	rmation			Repor	t Infor	mation - C	Data Deliverab	les Bi	lling Information								
TEL: 508-898-9220 CEAX: 508-896-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name:	oject Name: SHL			D FAX SEMAIL EDR				o s	Same as Client info PO #:								
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-	I, MA 02048						11 30		ASONABLE CONFIDENCE PROTO										
Phone: 508 - 339 - 3200 Turn-Around Time					✓ Yes □ No Are MCP Analytical Methods Required? ✓ Yes □ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments														
Fex: 508 -339 - 3248				4 1 2 2 2		☐ Yes	₩LN0	Are CT	RCP (Reasonab	le Confiden	ce Protocols) Required?								
Email: pmcbain@ Swon Date Due: \$10 0			Time:	- SAN DABOII	6	1	11	17-1	11	/ / / /									
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FORM NO: 01-01 (ray,	8-Jan-2010)		-	171	10-10-0	The		0											

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ANALYTICAL REPORT

Lab Number:

L1011805

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/20/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011805

Report Date:

08/20/10

Alpha Sample ID	Client ID		Sample Location			Collection Date/Time	
L1011805-01	GP-10-17-039-F		DEVENS, MA			08/02/10 15:36	
L1011805-02	GP-10-17-039-U		DEVENS, MA			08/02/10 15:36	
L1011805-03	GP-10-17-049-F		DEVENS, MA			08/02/10 16:24	
L1011805-04	GP-10-17-049-U		DEVENS, MA			08/02/10 16:24	
L1011805-05	GP-10-17-056-F		DEVENS, MA			08/02/10 17:16	
L1011805-06	GP-10-17-056-U		DEVENS, MA			08/02/10 17:16	
L1011805-07	GP-10-18-007-F		DEVENS, MA			08/02/10 18:35	
L1011805-08	GP-10-18-007-U		DEVENS, MA			08/02/10 18:35	
L1011805-09	GP-10-18-017-F		DEVENS, MA			08/03/10 08:30	
L1011805-10	GP-10-18-017-U		DEVENS, MA			08/03/10 08:30	
L1011805-11	GP-10-18-027-F		DEVENS, MA			08/03/10 09:28	
L1011805-12	GP-10-18-027-U		DEVENS, MA			08/03/10 09:28	
L1011805-13	GP-10-18-037-F		DEVENS, MA			08/03/10 10:25	
L1011805-14	GP-10-18-037-U		DEVENS, MA			08/03/10 10:25	
L1011805-15	GP-10-18-047-F		DEVENS, MA			08/03/10 11:30	
L1011805-16	GP-10-18-047-U		DEVENS, MA			08/03/10 11:30	
L1011805-17	GP-10-19-009-F		DEVENS, MA			08/03/10 14:09	
L1011805-18	GP-10-19-009-U		DEVENS, MA			08/03/10 14:09	
L1011805-19	GP-10-19-019-F	14	DEVENS, MA	-	7 27 4	08/03/10 15:00	
L1011805-20	GP-10-19-019-U		DEVENS, MA			08/03/10 15:00	
L1011805-21	DUP-080310-F		DEVENS, MA			08/03/10 09:28	
L1011805-22	DUP-080310-U		DEVENS, MA			08/03/10 09:28	
L1011805-23	DUP2-080310-F		DEVENS, MA			08/03/10 14:09	
L1011805-24	DUP2-080310-U		DEVENS, MA			08/03/10 14:09	
L1011805-25	RB-080310-U		DEVENS, MA			08/03/10 15:00	

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011805

Report Date:

08/20/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

The Dissolved Inorganic Carbon results will be issued under separate cover.

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

L1011805-02, -04, -06 and -08: The samples were received at the laboratory requiring filtration for Dissolved Organic Carbon; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

SHL TASK 0002

C 0002

Lab Number:

L1011805

Project Number: AC001

Report Date:

08/20/10

Case Narrative (continued)

The samples for Dissolved Organic Carbon were originally logged and filtered with SDG L1011804.

Metals

L1011805-01 through -06, -09 through -16, -21 and -22 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target and non-target analytes. The requested reporting limits were achieved.

The WG425912-3/-4 MS/MSD recoveries for Total Iron (0%/40%), performed on L1011805-14, are invalid because the sample concentration is greater than four times the spike amount added.

Solids, Total Suspended

The WG426639-2 Laboratory Duplicate RPD (40%), performed on L1011805-14, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

Dissolved Organic Carbon

WG427141-1: No filter blank is reported for this batch due to limited volume available for analysis. (The filtered blank volume was used up analyzing the Dissolved Inorganic Carbon).

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

Date: 08/20/10

METALS

Project Name:

Project Number: AC001

SHL TASK 0002

Lab Number:

L1011805

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-01

Client ID: Sample Location: GP-10-17-039-F DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 15:36

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals	- Westboro	ugh Lab									
Arsenic, Dissolved	1860		ug/l	5.00	1.13	10	08/04/10 03:1	5 08/05/10 03:44	EPA 3005A	1,6020A	вм
Iron, Dissolved	60700		ug/l	500	84.1	10	08/04/10 03:1	5 08/05/10 03:44	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

Sample Location:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-02

Client ID:

GP-10-17-039-U DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 15:36

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough L	_ab									
Arsenic, Total	1950		ug/l	5.00	1.13	10	08/04/10 03:1	5 08/05/10 06:09	EPA 3005A	1,6020A	вм
Iron, Total	65200		ug/l	500	84.1	10	08/04/10 03:1	5 08/05/10 06:09	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Lab Number:

L1011805

Project Number: AC001 Report Date:

08/20/10

SAMPLE RESULTS

Lab ID: Client ID: L1011805-03 GP-10-17-049-F DEVENS, MA

Date Collected: Date Received: 08/02/10 16:24 08/03/10

Sample Location: Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	20.8		ug/l	2.00	0.452	4	08/04/10 03:1	5 08/05/10 03:50	EPA 3005A	1,6020A	вм
Iron, Dissolved	5210		ug/l	200	33.6	4	08/04/10 03:1	5 08/05/10 03:50	EPA 3005A	1,6020A	ВМ

Project Name:

Project Number:

SHL TASK 0002

AC001

Lab Number:

L1011805

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-04

Client ID: Sample Location: GP-10-17-049-U DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 16:24

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	stborough L	_ab									
Arsenic, Total	17.7		ug/l	2.00	0.452	4	08/04/10 03:1	5 08/05/10 06:15	EPA 3005A	1,6020A	вм
Iron, Total	10100		ug/l	200	33.6	4	08/04/10 03:1	5 08/05/10 06:15	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

Lab ID:

.....

SAMPLE RESULTS

Date Collected:

08/02/10 17:16

Client ID: Sample Location: L1011805-05 GP-10-17-056-F DEVENS, MA

Date Received:

08/03/10

Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	5.38		ug/l	2.00	0.452	4	08/04/10 03:1	5 08/05/10 03:56	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	6100		ug/I	200	33.6	4	08/04/10 03:1	5 08/05/10 03:56	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID: Client ID: L1011805-06 GP-10-17-056-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 17:16

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	ab									
Arsenic, Total	26.4		ug/l	2.00	0.452	4	08/04/10 03:1	5 08/05/10 06:21	EPA 3005A	1,6020A	ВМ
Iron, Total	30600		ug/l	200	33.6	4	08/04/10 03:1	5 08/05/10 06:21	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

Sample Location:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-07

Client ID:

GP-10-18-007-F DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 18:35

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.730		ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 04:02	EPA 3005A	1,6020A	вм
Iron, Dissolved	1360		ug/l	50.0	8.41	1	08/04/10 03:1	5 08/05/10 04:02	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1011805

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID: Client ID:

Sample Location:

L1011805-08 GP-10-18-007-U

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 18:35

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	stborough L	.ab									
Arsenic, Total	0.930		ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 06:27	EPA 3005A	1,6020A	ВМ
Iron, Total	1390		ug/l	50.0	8.41	1	08/04/10 03:1	5 08/05/10 06:27	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1011805

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-09

Client ID: Sample Location: GP-10-18-017-F DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 08:30

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	1.26	J	ug/l	2.00	0.452	4	08/04/10 03:1	5 08/05/10 04:20	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	857		ug/l	200	33.6	4	08/04/10 03:1	5 08/05/10 04:20	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

Lab ID:

SAMPLE RESULTS

Date Collected:

08/03/10 08:30

Client ID: Sample Location: L1011805-10 GP-10-18-017-U DEVENS, MA

Date Received:

08/03/10

Matrix:

Water

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough L	_ab									
Arsenic, Total	1.87	J	ug/l	2.00	0.452	4	08/04/10 03:1	5 08/05/10 06:45	EPA 3005A	1,6020A	вм
Iron, Total	1190		ug/I	200	33.6	4	08/04/10 03:1	5 08/05/10 06:45	EPA 3005A	1,6020A	ВМ

Project Name: S

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

Lab ID:

112000

SAMPLE RESULTS

Date Collected:

08/03/10 09:28

Client ID:

L1011805-11 GP-10-18-027-F

Date Received:

08/03/10

Sample Location:

DEVENS, MA

Field Prep:

See Narrative

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	- Westboro	ugh Lab									
Arsenic, Dissolved	105		ug/l	2.50	0.565	5	08/04/10 03:1	5 08/05/10 04:26	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	32000		ug/l	250	42.0	5	08/04/10 03:1	5 08/05/10 04:26	EPA 3005A	1,6020A	ВМ

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011805

 Project Number:
 AC001
 Report Date:
 08/20/10

SAMPLE RESULTS

 Lab ID:
 L1011805-12
 Date Collected:
 08/03/10 09:28

 Client ID:
 GP-10-18-027-U
 Date Received:
 08/03/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Water

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Qualifier **Parameter** Result Units RL Analyst Total Metals - Westborough Lab 117 Arsenic, Total 2.50 0.565 5 08/04/10 03:15 08/05/10 06:52 EPA 3005A 1,6020A ВМ ug/l Iron, Total 35400 ug/l 250 42.0 5 08/04/10 03:15 08/05/10 06:52 EPA 3005A 1,6020A вм

08/03/10 10:25

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011805

 Project Number:
 AC001
 Report Date:
 08/20/10

SAMPLE RESULTS

 Lab ID:
 L1011805-13

 Client ID:
 GP-10-18-037-F

 Sample Location:
 DEVENS, MA

Matrix: Water

10-18-037-F Date Received: 08/03/10
/ENS, MA Field Prep: See Narrative

Date Collected:

Prep Analytical Method Dilution Date Date Analyzed Method Factor Prepared Result Qualifier Parameter Units RL MDL Analyst Dissolved Metals - Westborough Lab 262 1,6020A Arsenic, Dissolved ug/l 2.50 0.565 08/04/10 03:15 08/05/10 04:38 EPA 3005A BM Iron, Dissolved 18800 ug/l 250 42.0 5 08/04/10 03:15 08/05/10 04:38 EPA 3005A 1,6020A BM

1,6020A

ВМ

Project Name: SHL TASK 0002 Lab Number:
Project Number: AC001 Report Date:

Lab Number: L1011805

Report Date: 08/20/10

08/04/10 03:15 08/05/10 07:04 EPA 3005A

SAMPLE RESULTS

21300

L1011805-14 GP-10-18-037-U

Date Collected: 08/03/10 10:25
Date Received: 08/03/10
Field Prep: Not Specified

Sample Location: DEVENS, MA Field Prep: Water

ug/l

250

Dilution Date Analytical Date Prep Method Factor Prepared Analyzed Method **Parameter** Result Qualifier Units MDL RL Analyst Total Metals - Westborough Lab Arsenic, Total 274 1,6020A ug/l 2.50 0.565 5 08/04/10 03:15 08/05/10 07:04 EPA 3005A ВМ

5

42.0

Lab ID:

Iron, Total

Client ID:

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-15

Client ID: Sample Location: GP-10-18-047-F DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 11:30

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	390		ug/l	2.50	0.565	5	08/04/10 03:15	5 08/05/10 05:08	EPA 3005A	1,6020A	вм
Iron, Dissolved	32300		ug/l	250	42.0	5	08/04/10 03:15	5 08/05/10 05:08	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

Lab ID:

Sample Location:

SAMPLE RESULTS

L1011805-16

Client ID:

GP-10-18-047-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 11:30

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	373		ug/l	2.50	0.565	5	08/04/10 03:1	5 08/05/10 07:28	EPA 3005A	1,6020A	вм
Iron, Total	35200		ug/l	250	42.0	5	08/04/10 03:1	5 08/05/10 07:28	EPA 3005A	1,6020A	ВМ

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011805

 Project Number:
 AC001
 Report Date:
 08/20/10

SAMPLE RESULTS

 Lab ID:
 L1011805-17
 Date Collected:
 08/03/10 14:09

 Client ID:
 GP-10-19-009-F
 Date Received:
 08/03/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.38	J	ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 05:45	EPA 3005A	1,6020A	вм
Iron, Dissolved	908		ug/l	50.0	8.41	1	08/04/10 03:1	5 08/05/10 05:45	EPA 3005A	1,6020A	вм

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011805

 Project Number:
 AC001
 Report Date:
 08/20/10

SAMPLE RESULTS

 Lab ID:
 L1011805-18
 Date Collected:
 08/03/10 14:09

 Client ID:
 GP-10-19-009-U
 Date Received:
 08/03/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough L	_ab									
Arsenic, Total	0.570		ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 07:34	EPA 3005A	1,6020A	ВМ
Iron, Total	1040		ug/l	50.0	8.41	1	08/04/10 03:1	5 08/05/10 07:34	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002 Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID: Client ID: L1011805-19 GP-10-19-019-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/03/10 15:00

Date Received: Field Prep:

08/03/10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.600		ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 05:51	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	831		ug/l	50.0	8.41	1	08/04/10 03:1	5 08/05/10 05:51	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-20

Client ID:

GP-10-19-019-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/03/10 15:00

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	3.07		ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 07:40	EPA 3005A	1,6020A	вм
Iron, Total	3680		ug/l	50.0	8.41	-1	08/04/10 03:1	5 08/05/10 07:40	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-21

Client ID: Sample Location: DUP-080310-F DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 09:28

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	107		ug/l	2.50	0.565	5	08/04/10 03:1	5 08/05/10 05:57	EPA 3005A	1,6020A	вм
Iron, Dissolved	32800		ug/I	250	42.0	5	08/04/10 03:1	5 08/05/10 05:57	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011805

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-22

Client ID: Sample Location: DUP-080310-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 09:28

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	118		ug/l	2.50	0.565	5	08/04/10 03:1	5 08/05/10 07:58	EPA 3005A	1,6020A	ВМ
Iron, Total	34600		ug/l	250	42.0	5	08/04/10 03:1	5 08/05/10 07:58	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-23

Client ID:

DUP2-080310-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 14:09

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.35	J	ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 06:03	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	982		ug/l	50.0	8.41	1	08/04/10 03:1	5 08/05/10 06:03	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Project Number:

Lab Number:

L1011805

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-24

Client ID: Sample Location: DUP2-080310-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 14:09

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	-ab									
Arsenic, Total	0.530		ug/l	0.500	0.113	1	08/04/10 03:1	5 08/05/10 08:04	EPA 3005A	1,6020A	вм
Iron, Total	1030		ug/l	50.0	8.41	1	08/04/10 03:1	5 08/05/10 08:04	EPA 3005A	1,6020A	ВМ

SHL TASK 0002 **Project Name:**

Lab Number:

L1011805

Project Number:

AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID: Client ID: L1011805-25

Sample Location:

RB-080310-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 15:00

Date Received:

08/03/10

Field Prep:

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
estborough L	_ab									
ND		ug/l	0.500	0.113	1	08/04/10 03:15	5 08/05/10 08:10	EPA 3005A	1,6020A	вм
13.3	J	ug/l	50.0	8.41	1	08/04/10 03:19	5 08/05/10 08:10	EPA 3005A	1,6020A	вм
	estborough l ND	estborough Lab	estborough Lab ND ug/i	estborough Lab ND ug/l 0.500	estborough Lab ND ug/l 0.500 0.113	Result Qualifier Units RL MDL Factor estborough Lab ND ug/l 0.500 0.113 1	Result Qualifier Units RL MDL Factor Prepared estborough Lab ND ug/l 0.500 0.113 1 08/04/10 03:1	Result Qualifier Units RL MDL Factor Prepared Analyzed estborough Lab ND ug/l 0.500 0.113 1 08/04/10 03:15 08/05/10 08:10	Result Qualifier Units RL MDL Factor Prepared Analyzed Method estborough Lab ND ug/l 0.500 0.113 1 08/04/10 03:15 08/05/10 08:10 EPA 3005A	Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method estborough Lab ND ug/l 0.500 0.113 1 08/04/10 03:15 08/05/10 08:10 EPA 3005A 1,6020A

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number: AC001

Report Date:

08/20/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	l Analyst
Total Metals - Westboroug	h Lab fo	or sample(s):	02,04,0	06,08,10	,12,14	,16,18,20,22	,24-25 Batch	: WG42591	2-1	
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:10	1,6020A	ВМ
Iron, Total	9.87	J	ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:10	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - We	estborough Lab for samp	ole(s): 01	,03,05,0	7,09,1	1,13,15,17,	19,21,23 Bate	ch: WG4259	15-1	
Arsenic, Dissolved	ND	ug/l	0.500	0.113	1	08/04/10 03:15	08/04/10 21:22	1,6020A	ВМ
Iron, Dissolved	ND	ug/l	50.0	8.41	1	08/04/10 03:15	08/04/10 21:22	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011805

Report Date:

08/20/10

LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
ociated sample(s): 02,	04,06,08,	10,12,14,16,18,2	0,22,24-25	Batch: WG425	912-2		
98		4		80-120	4		
105	9			80-120	-		
Associated sample(s):	01,03,0	5,07,09,11,13,15,	17,19,21,23	Batch: WG42	25915-2		
99				80-120	9		
104		- -		80-120	74		
	%Recovery ociated sample(s): 02, 98 105 Associated sample(s):	%Recovery Qual ociated sample(s): 02,04,06,08, 98 105 Associated sample(s): 01,03,08	%Recovery Qual %Recovery ociated sample(s): 02,04,06,08,10,12,14,16,18,2 98 105 Associated sample(s): 01,03,05,07,09,11,13,15,	%Recovery Qual %Recovery Qual ociated sample(s): 02,04,06,08,10,12,14,16,18,20,22,24-25 98 105 Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23	%Recovery Qual %Recovery Qual Limits ociated sample(s): 02,04,06,08,10,12,14,16,18,20,22,24-25 Batch: WG425 98 - 80-120 105 - 80-120 Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 Batch: WG42 99 - 80-120	%Recovery Qual %Recovery Qual Limits RPD ociated sample(s): 02,04,06,08,10,12,14,16,18,20,22,24-25 Batch: WG425912-2 98 80-120 80-120 Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 Batch: WG425915-2 99 80-120 80-120	%Recovery Qual %Recovery Qual Limits RPD Qual ociated sample(s): 02,04,06,08,10,12,14,16,18,20,22,24-25 Batch: WG425912-2 98 80-120 80-120 Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 Batch: WG425915-2 99 80-120 80-120

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011805

Report Date:

08/20/10

L1011805-14 Client ID: GP-10-18-037-U Arsenic, Total 274 120 387 94 396 102 80-120 2 Iron, Total 21300 1000 20500 0 21700 40 80-120 6 Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG425915-3 WG425915-4 C	
Iron, Total 21300 1000 20500 0 21700 40 80-120 6 Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG425915-3 WG425915-4 C	C Sample:
Dissolved Metals - Westborough Lab Associated sample(s): 01,03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG425915-3 WG425915-4 QC Batch ID: WG42591	20
있다. 전통하면 사람들은 사람들이 가는 사용이 있다. 프랑이 가는 사람들이 가는 사람들이 되었다. 이 사람들이 가는 사람들이 되었다. 사람들이 사람들이 사람들이 사람들이 되었다. 그렇게 되었다. 그리고 있다.	20
L1011805-13 Client ID: GP-10-18-037-F	QC Sample
Arsenic, Dissolved 262 120 393 109 393 109 80-120 0	20
Iron, Dissolved 18800 1000 19800 100 19900 110 80-120 1	20

INORGANICS & MISCELLANEOUS

L1011805

Project Name: SHL TASK 0002

ASK 0002 Lab Number:

Project Number: AC001 Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-02 Client ID: GP-10-17-039-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/02/10 15:36 Date Received: 08/03/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	0								
Solids, Total Suspended	95		mg/l	5.0	NA	1	e i	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	4.1		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number:

L1011805

Project Number: AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-04 GP-10-17-049-U

08/02/10 16:24

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:	08/02/10 16:24
Date Received:	08/03/10
Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	i,								
Solids, Total Suspended	290		mg/l	5.0	NA	1		08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	3.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number:

L1011805 Project Number: AC001 Report Date: 08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-06

Client ID:

GP-10-17-056-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected: 08/02/10 17:16 Date Received: 08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	1700		mg/l	5.0	NA	1		08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	3.7		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number:

L1011805

Project Number: AC001

Report Date: 08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-08 GP-10-18-007-U

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 18:35

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	i.								
Solids, Total Suspended	13		mg/l	5.0	NA	1		08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1,4		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011805

Project Number: AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID: Client ID: L1011805-10 GP-10-18-017-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 08:30

Date Received:

08/03/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	E								
Solids, Total Suspended	7.5		mg/l	5.0	NA	1.	-	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number:

Project Number: AC001 Report Date: 08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-12

Client ID:

GP-10-18-027-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 09:28

Date Received:

08/03/10

Field Prep:

Not Specified

L1011805

Dilution Date Date Analytical Factor Prepared Method Qualifier Units MDL Analyzed Result RL **Parameter** Analyst General Chemistry - Westborough Lab DW Solids, Total Suspended 65 5.0 NA 1 08/09/10 16:25 30,2540D mg/l Dissolved Organic Carbon 3.6 1.0 1.0 1 08/04/10 01:00 08/11/10 06:53 30,5310C DW mg/l

L1011805

Project Name: SHL TASK 0002

ASK 0002 Lab Number:

Project Number: AC001 Report Date: 08/20/10

SAMPLE RESULTS

Lab ID: L1011805-14 Client ID: GP-10-18-037-U

Sample Location: DEVENS, MA

Matrix: Water

Date Collected: 08/03/10 10:25

Date Received: 08/03/10

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	fig.								
Solids, Total Suspended	48		mg/l	5.0	NA	1		08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	5.0		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number:

L1011805

Project Number: AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-16 GP-10-18-047-U

Date Collected:

08/03/10 11:30

Client ID: Sample Location:

DEVENS, MA

Date Received:

08/03/10

Matrix:

Water

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	į.								
Solids, Total Suspended	160		mg/l	5.0	NA	1	47	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	6.6		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number:

L1011805

Project Number: AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-18

Client ID: Sample Location: GP-10-19-009-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 14:09

Date Received:

08/03/10

Field Prep:

Not Specified

man and the

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	ND		mg/l	5.0	NA	1.		08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1.1		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number:

L1011805

Project Number: AC001

Report Date:

08/20/10

SAMPLE RESULTS

Lab ID:

L1011805-20 GP-10-19-019-U

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 15:00

Date Received:

08/03/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	r.								
Solids, Total Suspended	70		mg/l	5.0	NA	1	(5.)	08/09/10 16:25	30,2540D	DW
Dissolved Organic Carbon	1.0		mg/l	1.0	1.0	1	08/04/10 01:00	08/11/10 06:53	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011805

08/20/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Q	ualifier U	nits	RL	MDL	Dilution Factor	Date Prepared	Date I Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab	for sample	e(s):	02,04,06	,08,10,12	,14,16,18,20	Batch: \	NG426639-1		
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	08/09/10 16:25	30,2540D	DW
General Chemistry	- Westborough Lab	for sample	e(s):	02,04,06	,08,10,12	,14,16,18,20	Batch: \	NG427141-1		
Dissolved Organic Carbon	ND		mg/l	1.0	1.0	1	08/04/10 01:0	0 08/11/10 06:53	30,5310C	DW

Lab Control Sample Analysis Batch Quality Control

Lab Number:

L1011805

Report Date:

08/20/10

Project Name: SHL TASK 0002

Project Number: AC001

LCS LCSD %Recovery **Parameter** %Recovery %Recovery Limits RPD **RPD Limits** Qual Qual Qual General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08,10,12,14,16,18,20 Batch: WG427141-2

Dissolved Organic Carbon

98

1

90-110

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011805

Report Date:

08/20/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD Q	RPD ual Limits
General Chemistry - Westbo ID: MS Sample	rough Lab Asso	ciated samp	le(s): 02,0	4,06,08,10,12,1	4,16,18	,20 QC I	Batch ID: WG42	27141-3	QC San	nple: L101	1792-04 Clien
Dissolved Organic Carbon	2.8	4	6.7	98		-	-		79-120	4	20

Lab Duplicate Analysis Batch Quality Control

Project Name: SHL 7

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011805

Report Date:

08/20/10

Parameter	Nat	ive Sample	Duplicate :	Sample	Units	RPD	Qual	RPD Limits	
General Chemistry - Westborough Lab ID: GP-10-18-037-U	Associated sample(s):	02,04,06,08,1	0,12,14,16,18,20	QC Batch II	D: WG42	6639-2 Q0	C Sample:	L1011805-14	Client
Solids, Total Suspended	* 1-	48.	72		mg/l	40	Q	32	
General Chemistry - Westborough Lab ID: DUP Sämple	Associated sample(s):	02,04,06,08,1	0,12,14,16,18,20	QC Batch II	D: WG42	7141-4 Q0	Sample:	L1011792-02	Client
Dissolved Organic Carbon	10	3.6	3.4		mg/l	6		20	

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1011805 Report Date: 08/20/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on:

NA

Cooler Information Custody Seal

Cooler

В

Present/Intact

A

Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011805-01A	Plastic 250ml HNO3 preserved	Α	<2	2,2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-02A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-02B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-03A	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-04A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-04B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-05A	Plastic 250ml HNO3 preserved	Α	<2	22	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-06A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-06B	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-07A	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-08A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-08B	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-09A	Plastic 250ml HNO3 preserved	A	<2	2.2	, Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-10A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-10B	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-11A	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-12A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-12B	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-13A	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-13B	Plastic 250ml HNO3 preserved	Α	<2	2,2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011805 **Report Date**: 08/20/10

C							
Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
L1011805-14A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-14B	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180), DOD-FE-6020T(180)
L1011805-14C	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-14D	Plastic 250ml HNO3 preserved	Α	<2	22	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-15A	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-16A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-16B	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-17A	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-18A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-18B	Plastic 250ml HNQ3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180), DOD-FE- 6020T(180)
L1011805-19A	Plastic 250ml HNO3 preserved	A	<2	2.2	Υ	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-20A	Plastic 1000ml unpreserved	В	7	3	Y	Present/Intact	TSS-2540(7)
L1011805-20B	Plastic 250ml HNO3 preserved	A	<2	2.2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-21A	Plastic 250ml HNO3 preserved	Α	<2	2.2	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011805-22B	Plastic 250ml HNO3 preserved	Α	<2	22	Υ	Present/Intact	DOD-AS-6020T(180),DOD-FE-6020T(180)
L1011805-23A	Plastic 250ml HNO3 preserved	Α	<2	22	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011805-24B	Plastic 250ml HNO3 preserved	A	<2	22	, A	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011805-25B	Plastic 500ml HNO3 preserved	A	<2	2.2	Υ	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)

Lab Number: Project Name: SHL TASK 0002 L1011805 Report Date:

Project Number: AC001 08/20/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency,

- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known LCS amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD · Matrix Spike Sample Duplicate: Refer to MS.

NA · Not Applicable.

NC Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable.

RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA \$260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- Spectra identified as "Aldol Condensation Product"
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument. E
- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- -The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers



 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011805

 Project Number:
 AC001
 Report Date:
 08/20/10

Data Qualifiers

RE Analytical results are from sample re-extraction.

J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



L1011805

Lab Number:

Project Name: SHL TASK 0002

Project Number: AC001 Report Date: 08/20/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846, Third Edition. Updates I - IIIA, 1997.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF, 18th Edition, 1992.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

DLPHA

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID. PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM922B), Total Coliform – Colilert (SM9223 P/A), E. Coli, – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfate, Sulfate, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease, Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0 Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500Norg-B, 4500Norg-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.):

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for; Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ, SUB, SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0 Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. <u>Organic Parameters</u>: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B, Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>; 68-03671. *NELAP Accredited. Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. *NELAP Accredited*. *Non-Potable Water* (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2 D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

CHAIN O	F CUSTO	DY .	PAGE_	of _3_	1	e Re	d in	Lab	81				AL P	HAJOB# CLOUKS	
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Phone: 508-339-3200	Turn-Around Ti	me			100.00		O No	2	Are MCP s Matrix					or? SDG? (If yes see note in Comments)
Fax: 508-339-3248	Standard I	RUSH	and middless	and modern	П	Yes	QNO) A	re CTR	CP (Re	esonat	le Con	fidence	Protocols) Required?	
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(Leb Use Only) Sample ID	Date	Time	Matrix	Initials	1	NE	1 +	19	1	1	1	1	/ /	/ Sample Specific Comments	ŝ
16805 GP-10-17-039-F	8/2/10	1536	GW	JAR.				1							1
2 G8-10-17-039-U	8/2/10	1536	6W	DAR	V	V	V								3
2 GP-10-17-049-F	8/2/10	1624	6W	EBF				V							1
9 GP-10-17-049-U	8/2/10	1624	GW	EEF	V	V	1								3
68-10-17-056-F	8/4/10	17/6	6W	EEF				V			44				1
68-10-17-056-4	8/2/10	17/6	64	EFF	V	V	1								3
68-10-18-007-F	rlako	1275	GW	JAK			X-+	V		1		1111			1
8 GP-10-18-007-U	8/2/10	1835	64	SAR	1	V	V								3
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WESTBORO, MA TEL: 508-898-9220	MANSFIELD, MA TEL: 506-822-9300	Project Inform					-			liverable		ng Information	
FAX: 508-698-9193	FAX: 508-822-3288	Project Name:		12.4		☐ FAX			MAIL E	0.00	□ Sar	ne as Client info PO#:	
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Client: Swereig	n Consulting Inc	Project #: 40				State /Fe	_					EE QAPP	
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Phone: 508-3.		Turn-Around	Time				CON A CON					SDG? (If yes see note in Com	ments)
Fax: 508-33		Stendard	RUSH (only	constraind it pass	100/0*11	res	*ANO	Are C	ACP (H	/ /	7 / /	Protocols) Required?	
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	68-10-18-047-F	8/3/10	1130	6W	JAR	ļ		4				MS/MSD	
16	GP-10-18-047-U	8/3/10	1130	6W	JUR	VV	11		- 10				13
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	GP-10-19-019-U	7/3/1	1500	GW	JAR	1	TV						
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NOTICE OF ENVIRONMENTAL SAMPLING



As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to Release Tracking Number

4	1	3025485

			and Release Tracking Number (provided above):
Street Addre	ss: 1050 Washington Str	eet	
City/Town;	Braintree	Zip Code:	02184
. This notice i	s being provided to the	following party:	
Name: Davi	d O'Brien, Braintree Coop	erative Bank	_
Street Address	ss: 1010 Washington Stre	et	
City/Town:	Braintree	Zip Code:	02184
This notice i	s being given to inform	its recipient (the	party listed in Section B):
1. That e	environmental sampling wi	ll be/has been cor	nducted at property owned by the recipient of this notice.
2. Of the	results of environmental	sampling conducte	ed at property owned by the recipient of this notice
		25 000 4.00 20 022 03	ched. (If item 2. above is checked, the analytical results from
the envir	ronmental sampling must I	be attached to this	s notice.)
Location of	the property where the e	nvironmental sa	mpling will be/has been conducted:
Street Addres	ss: 1010 Washington Stre	et	
City/Town.	Braintreee	Zip Code:	02184
MCP phase of	of work during which the sa	ampling will be/has	s been conducted:
	e Response Action Abatement Measure		se III Feasibility Evaluation se IV Remedy Implementation Plan
☐ Utility-rela	ted Abatement Measure	Phas	se V/Remedy Operation Status
	itial Site Investigation Comprehensive Site Asses		-Class C Operation, Maintenance and Monitoring
			(specify)
Description o	f property where sampling	will be/has been	conducted.
☐ res	sidential commerical	☐industrial	school/playground Other
Description o	f the sampling locations a	nd types (e.g., soil	(specify) i, groundwater) to the extent known at the time of this notice
Sea of said			2 security 10 secu
Groundwa	ater from monitori	ng wells	
		A. W. A. D. A.	
. Contact info ontact Name:	rmation related to the pa Neil R. Schofield	rty providing this	s notice;
treet Address:	905B South Main Street,	Suite 202	
	nsfield	Zip Code:	02048
- W	8) 339-3200		schofield@sovcon.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/dep/cleanup/oview.htm. For more information regarding this notice, you may contact the party listed in Section E on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://mass.gov/dep/about/region/schedule.htm if you would like to make an appointment to see these files. Please reference the Release Tracking Number listed in the upper right hand corner on the reverse side of this form when making file review appointments.



ANALYTICAL REPORT

Lab Number:

L1011832

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/11/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011832

Report Date:

08/11/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011832-01	GP-10-17-009-U	DEVENS, MA	08/02/10 10:33
L1011832-02	GP-10-17-019-U	DEVENS, MA	08/02/10 11:38
L1011832-03	GP-10-17-029-U	DEVENS, MA	08/02/10 14:45
L1011832-04	DUP-080210-U	DEVENS, MA	08/02/10 11:38

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011832

Report Date:

08/11/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report contains the results for the Dissolved Inorganic Carbon analysis. The results for all other analyses will be issued under separate cover.

Sample Receipt

These samples were originally logged and filtered with SDG L1011707.

Dissolved Inorganic Carbon

L1011832-01 through -04 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

WG426769: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD.

The Filter Blank result is reported from an analysis where the CCB before the sequence failed high, but re-

Project Name:

SHL TASK 0002

Lab Number:

L1011832

Project Number:

AC001

Report Date:

08/11/10

Case Narrative (continued)

analysis could not be performed due to limited sample volume.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

Date: 08/11/10

INORGANICS & MISCELLANEOUS



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011832

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID: Client ID:

L1011832-01 GP-10-17-009-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 10:33

Date Received:

08/02/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	13		mg/l	8.0	**	8	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011832

Project Number:

AC001

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011832-02

Client ID:

GP-10-17-019-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 11:38

Date Received:

08/02/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Factor Prepared Analyzed Qualifier Units RL MDL **Parameter** Result Analyst **General Chemistry** Dissolved Inorganic Carbon mg/l 8.0 8 08/02/10 21:30 08/10/10 06:59 30,5310C(M) DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011832

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011832-03

Client ID:

Sample Location:

GP-10-17-029-U DEVENS, MA

Matrix:

Water

Date Collected:

08/02/10 14:45

Date Received:

08/02/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	12		mg/l	8.0		8	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011832

Project Number: AC001

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011832-04

Date Received:

08/02/10 11:38

Client ID:

DUP-080210-U

Date Collected:

08/02/10

Sample Location:

DEVENS, MA

Field Prep:

Not Specified

Matrix:

Water

Parameter	Result	Qualifier	Units	RI.	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	13		mg/l	8.0	**	8	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011832

Project Number: AC001

Report Date:

08/11/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sar	mple(s): 01-04 Batc	h: WG426	6769-1						
Dissolved Inorganic Carbon	ND	mg/l	1.0	-	1	08/02/10 21:30	08/10/10 06:59	30,5310C(M)	DW

Lab Control Sample Analysis
Batch Quality Control

SHL TASK 0002

Lab Number:

L1011832

Report Date:

08/11/10

	LCS		LCSD		%Recovery			
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	RPD Limits

Associated sample(s): 01-04 Batch: WG426769-2

AC001

Dissolved Inorganic Carbon

Project Name:

Project Number:

98

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1011832

Report Date:

08/11/10

Parameter	Nat	ive Sample	Duplicate Sa	nple	Units	RPD	Qual	RPD Limits
Associated sample(s): 01-04	QC Batch ID: WG426769-3	QC Sample: L	1011832-01 Client	ID: G	P-10-17-009-U			
Dissolved Inorganic Carbon		13	13		mg/l	0		

2

SHL TASK 0002

AC001

Project Name:

Project Number:

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011832

 Project Number:
 AC001
 Report Date:
 08/11/10

GLOSSARY

Acronyms

EPA Environmental Protection Agency.

 Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

NO. Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable:

Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the Reference section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product"
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria: however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- -The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Serial_No:08111010:56

Project Name: SHL TASK 0002 Lab Number: L1011832
Project Number: AC001 Report Date: 08/11/10

Data Qualifiers

RE • Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



SHL TASK 0002

Lab Number:

L1011832

Project Number:

AC001

Report Date:

08/11/10

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Berylfium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9223B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH. Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease, Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform – MF m-FC (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, Organic Parameters: PCBs, PCBs in Oil, Organichlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B, C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B, E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307 NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-06-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ QQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065, Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev 7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B.

Organic Parameters: EPA 524.2, 504.1.)

Non-Polable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA-9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B, Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificale/Lab ID</u>; 68-03671, *NELAP Accredited*, *Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NY-DOH*. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited. Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2_D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (<u>Inorganic Parameters</u>: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, <u>Organic Parameters</u>: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH,)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

Serial No:08111010:56

FORM NO: 01-01 (rev. 18-Jan-2010)

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ANALYTICAL REPORT

Lab Number:

L1011870

Client:

Sovereign Consulting

905B South Main Street Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

09/14/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SHL TASK 0002

Lab Number: L1011870 Project Number: AC001 Report Date: 09/14/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011870-01	GP-10-19-029-F	DEVENS, MA	08/03/10 15:48
L1011870-02	GP-10-19-029-U	DEVENS, MA	08/03/10 15:48
L1011870-03	GP-10-19-039-F	DEVENS, MA	08/03/10 16:30
L1011870-04	GP-10-19-039-U	DEVENS, MA	08/03/10 16:30
L1011870-05	GP-10-19-046-F	DEVENS, MA	08/03/10 17:28
L1011870-06	GP-10-19-046-U	DEVENS, MA	08/03/10 17:28
L1011870-07	GP-10-20-009-F	DEVENS, MA	08/04/10 08:50
L1011870-08	GP-10-20-009-U	DEVENS, MA	08/04/10 08:50
L1011870-09	GP-10-20-019-F	DEVENS, MA	08/04/10 09:45
L1011870-10	GP-10-20-019-U	DEVENS, MA	08/04/10 09:45
L1011870-11	GP-10-11-059-F	DEVENS, MA	08/03/10 16:25
L1011870-12	GP-10-11-059-U	DEVENS, MA	08/03/10 16:25
L1011870-13	GP-10-11-064-F	DEVENS, MA	08/04/10 13:05
L1011870-14	GP-10-11-064-U	DEVENS, MA	08/04/10 13:05
L1011870-15	GP-10-20-029-F	DEVENS, MA	08/04/10 10:37
L1011870-16	GP-10-20-029-U	DEVENS, MA	08/04/10 10:37
L1011870-17	GP-10-20-039-F	DEVENS, MA	08/04/10 11:26
L1011870-18	GP-10-20-039-U	DEVENS, MA	08/04/10 11:26
L1011870-19	GP-10-21-011-F	DEVENS, MA	08/04/10 14:32
L1011870-20	GP-10-21-011-U	DEVENS, MA	08/04/10 14:32
L1011870-21	DUP-080410-F	DEVENS, MA	08/04/10 09:45
L1011870-22	DUP-080410-U	DEVENS, MA	08/04/10 09:45
L1011870-23	RB-080410-U	DEVENS, MA	08/04/10 11:00
L1011870-24	RB2-080410-U	DEVENS, MA	08/04/10 14:00
L1011870-25	DUP2-080410-F	DEVENS, MA	08/04/10 15:15
L1011870-26	DUP2-080410-U	DEVENS, MA	08/04/10 15:15
I 1011870-27	GP-10-21-021-F	DEVENS, MA	08/04/10 15:15
L1011870-28	GP-10-21-021-U	DEVENS, MA	08/04/10 15:15

SHL TASK 0002

Project Number: AC

AC001

Lab Number:

L1011870

Report Date:

09/14/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The Dissolved Inorganic Carbon results will be issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

L1011870-02, 04, -06 and -12: Samples were received at the laboratory requiring filtration for Dissolved Organic Carbon; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

09/14/10

Case Narrative (continued)

The following samples were analyzed for Magnesium, at the client's request: L1011870-09, -10, -12, -14, -22 and -24 through -28.

Dissolved Metals

L1011870-01, -03, -05, -15, -17, -25 and -27 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes.

L1011870-11 has elevated detection limits for all analytes, except Mercury, due to the dilution required by the high concentrations of target analytes.

The WG426283-1 Method Blank, associated with L1011870-11, -13 and -21, has a concentration above the reporting limit for Silver. Since the associated samples were non-detect for this target analyte, no qualification of the results was required.

The WG428706-1 Method Blank, associated with L1011870-21, has a concentration greater than one half the reporting limit for Mercury. Since the associated sample was non-detect for this target analyte, no qualification of the results was required.

The WG426283-4 MSD recovery for Sodium (122%), performed on L1011870-13, is invalid because the sample concentration is greater than four times the spike amount added.

The WG426283-6 Post Digestion Spike recoveries for Aluminum, Calcium, Magnesium, Manganese, Potassium, Sodium and Zinc, associated with L1011870-13, were outside the DoD acceptance criteria of 75-125%; therefore, the parent sample (L1011870-13) results are qualified with a "J" for these elements.

The WG426595-3/-4 MS/MSD recoveries, performed on L1011870-27, are below the acceptance criteria for Calcium (MS at 123%) and Manganese (MSD at 76%). A post digestion spike was performed with unacceptable recoveries of Calcium (0%) and Manganese (400%). This has been attributed to the sample matrix. The parent sample (L1011870-27) results are qualified with a "J" for these elements.

The WG426595-4 MSD recovery for Sodium, performed on L1011870-27, is invalid because the sample concentration is greater than four times the spike amount added.

The WG428705-5/-6 MS/MSD recoveries, performed on L1011870-13, are above the acceptance criteria for Mercury (128%/128%); however, the associated LCS recovery is within criteria. A post-digestion spike was performed with an acceptable recovery of 114%.

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

09/14/10

Case Narrative (continued)

The WG428706-3/-4 MS/MSD recoveries, performed on L1011870-21, are above the acceptance criteria for Mercury (130%/129%); however, the associated LCS recovery is within criteria. A post-digestion spike was performed with an acceptable recovery of 109%. The parent sample (L1011870-21) result should be qualified with a "UJ".

Total Metals

L1011870-02, -04, -06, -10, -12, -14, -16, -18, -22, -26 and -28 have elevated detection limit for all analytes due to the dilutions required by the high concentrations of target analytes.

The WG426479-3/-4 MS/MSD recoveries for Aluminum (0%/0%), Calcium (0%/20%), Chromium (73%/71%), Iron (0%/0%), Manganese (28%/26%) and Potassium (MS at 79%), performed on L1011870-14, are invalid because the sample concentrations are greater than four times the spike amount added.

The WG426479-3 MS recovery, performed on L1011870-14, is below the acceptance criteria for Magnesium (77%). A post digestion spike was performed with an acceptable recovery of 92%. The parent sample (L1011870-14) result is qualified with a "J" for this element.

The WG426592-3 MS recovery for Sodium (150%), performed on L1011870-26, is invalid because the sample concentration is greater than four times the spike amount added.

Solids, Total Suspended

L1011870-12 and -14 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Michelle M. Morris

Title: Technical Director/Representative

Date: 09/14/10

METALS



Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-01 GP-10-19-029-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/03/10 15:48

Date Received:

08/04/10

Field Prep:

See Narrative

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Parameter Result Qualifier Units RL MDL Analyst Dissolved Metals - Westborough Lab Arsenic, Dissolved 810 5.00 1.13 08/05/10 16:30 08/10/10 21:38 EPA 3005A 1,6020A ВМ ug/l 10 73300 Iron, Dissolved ug/l 500 84.1 10 08/05/10 16:30 08/10/10 21:38 EPA 3005A 1,6020A BM

Project Name: SHL TASK 0002

Lab Number: Report Date:

L1011870 09/14/10

Project Number:

AC001

SAMPLE RESULTS

L1011870-02

Client ID: Sample Location:

Lab ID:

GP-10-19-029-U DEVENS, MA

Matrix: Water Date Collected:

08/03/10 15:48

Date Received: Field Prep:

08/04/10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	886		ug/l	5.00	1.13	10	08/06/10 15:5	0 08/11/10 03:26	EPA 3005A	1,6020A	вм
Iron, Total	89800		ug/l	500	84.1	10	08/06/10 15:5	0 08/11/10 03:26	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

AC001

Lab Number:

L1011870

Project Number: AC00

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-03

Sample Location:

GP-10-19-039-F DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 16:30

Date Received:

08/04/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	677		ug/I	5.00	1.13	10	08/05/10 16:3	0 08/10/10 21:44	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	58800		ug/l	500	84.1	10	08/05/10 16:30	0 08/10/10 21:44	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

Sample Location:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-04

Client ID:

GP-10-19-039-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 16:30

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	stborough L	_ab									
Arsenic, Total	690		ug/l	5.00	1.13	10	08/06/10 15:5	0 08/11/10 03:32	EPA 3005A	1,6020A	вм
Iron, Total	65600		ug/l	500	84.1	10	08/06/10 15:5	0 08/11/10 03:32	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002 Lab Number: L1011870

Project Number: AC001 Report Date: 09/14/10

SAMPLE RESULTS

Lab ID: L1011870-05 Date Collected: 08/03/10 17:28
Client ID: GP-10-19-046-F Date Received: 08/04/10
Sample Location: DEVENS, MA Field Prep: See Narrative
Matrix: Water

Analytical Method Dilution Date Date Prep Factor Prepared Analyzed Method Qualifier **Parameter** Result Units RL MDL Analyst Dissolved Metals - Westborough Lab Arsenic, Dissolved 3.92 1,6020A ug/l 2.50 0.565 5 08/05/10 16:30 08/10/10 21:50 EPA 3005A BM Iron, Dissolved 4280 5 08/05/10 16:30 08/10/10 21:50 EPA 3005A 1,6020A 250 ug/l 42.0 BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-06

Sample Location:

GP-10-19-046-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 17:28

Date Received:

08/04/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Prep Factor Method Prepared Analyzed **Parameter** Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab 23.3 Arsenic, Total ug/l 5.00 1.13 10 08/06/10 15:50 08/11/10 03:38 EPA 3005A 1,6020A BM Iron, Total 14400 500 10 08/06/10 15:50 08/11/10 03:38 EPA 3005A 1,6020A ug/I 84.1 BM

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

Matrix:

L1011870-07

Client ID:

GP-10-20-009-F DEVENS, MA

Sample Location:

Water

Date Collected:

08/04/10 08:50

Date Received:

08/04/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.4	J	ug/l	0.500	0.113	1	08/05/10 16:30	0 08/10/10 22:40	EPA 3005A	1,6020A	вм
Iron, Dissolved	1260		ug/l	50.0	8.41	1	08/05/10 16:30	0 08/10/10 22:40	EPA 3005A	1,6020A	ВМ

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011870

 Project Number:
 AC001
 Report Date:
 09/14/10

SAMPLE RESULTS

 Lab ID:
 L1011870-08
 Date Collected:
 08/04/10 08:50

 Client ID:
 GP-10-20-009-U
 Date Received:
 08/04/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Water

Analytical Method Dilution Date Date Prep Analyzed Method Qualifier Factor Prepared **Parameter** Result Units RL MDL Analyst Total Metals - Westborough Lab Arsenic, Total 1.60 0.500 0.113 08/06/10 15:50 08/11/10 04:03 EPA 3005A 1,6020A ВМ ug/l Iron, Total 2000 ug/l 50.0 8.41 08/06/10 15:50 08/11/10 04:03 EPA 3005A 1,6020A ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-09

Client ID: Sample Location: GP-10-20-019-F DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 09:45

Date Received:

08/04/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	5.49	J	ug/l	10.0	1.91	1	08/05/10 16:30	0 08/10/10 20:13	EPA 3005A	1,6020A	ВМ
Arsenic, Dissolved	1.02		ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	12100		ug/l	100	12.6	1:	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	вм
Chromium, Dissolved	0.510		ug/l	0.500	0.186	1	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1500		ug/l	50.0	8.41	4.	08/05/10 16:30	08/10/10 20:13	EPA 3005A	1,6020A	ВМ
Lead, Dissolved	0.06	J	ug/l	0.500	0.050	1	08/05/10 16:30	0 08/10/10 20:13	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	1570		ug/l	100	4.10	1	08/05/10 16:30	0 08/10/10 20:13	EPA 3005A	1,6020A	вм
Manganese, Dissolved	920		ug/l	1.00	0.136	1	08/05/10 16:30	0 08/10/10 20:13	EPA 3005A	1,6020A	ВМ
Nickel, Dissolved	4.71		ug/l	0.500	0.180	1	08/05/10 16:30	0 08/10/10 20:13	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	3700		ug/l	100	18.2	1	08/05/10 16:30	0 08/10/10 20:13	EPA 3005A	1,6020A	вм
Sodium, Dissolved	119000		ug/l	100	18.2	1	08/05/10 16:30	0 08/10/10 20:13	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

Sample Location:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-10 GP-10-20-019-U

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 09:45

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough L	_ab									
Aluminum, Total	488		ug/l	20.0	3.82	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	вм
Arsenic, Total	2.94		ug/l	1.00	0.226	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	вм
Calcium, Total	13100		ug/l	200	25.3	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	ВМ
Chromium, Total	3.25		ug/l	1.00	0.372	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	ВМ
Iron, Total	2910		ug/l	100	16.8	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	ВМ
Lead, Total	0.79	J	ug/l	1_00	0.100	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	вм
Magnesium, Total	1840		ug/l	200	8.20	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	ВМ
Manganese, Total	989		ug/l	2,00	0.272	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	вм
Nickel, Total	8.04		ug/l	1.00	0.360	2	08/06/10 15:5	0 08/11/10 04:27	EPA 3005A	1,6020A	вм
Potassium, Total	4290		ug/l	200	36.3	2	08/06/10 15:50	0 08/11/10 04:27	EPA 3005A	1,6020A	BM
Sodium, Total	129000		ug/l	200	36.4	2	08/06/10 15:5	0 08/11/10 04:27	EPA 3005A	1,6020A	вм

SHL TASK 0002

Lab Number:

L1011870

Project Number:

Sample Location:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-11

Client ID:

GP-10-11-059-F DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 16:25

Date Received:

08/04/10

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestborou	ugh Lab									
Aluminum, Dissolved	ND		ug/l	40.0	7.64	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	ВМ
Antimony, Dissolved	1.17	J	ug/l	2.00	0.480	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	236		ug/l	2.00	0.452	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Barium, Dissolved	27.3		ug/l	2.00	0.380	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Beryllium, Dissolved	ND		ug/l	2.00	0.236	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	ВМ
Cadmium, Dissolved	ND		ug/l	2.00	0 236	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Calcium, Dissolved	44000		ug/l	400	50.6	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Chromium, Dissolved	ND		ug/l	2.00	0.744	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Cobalt, Dissolved	19.5		ug/I	2.00	0.212	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	ВМ
Copper, Dissolved	0.72	J	ug/l	2.00	0.472	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Iron, Dissolved	28500		ug/l	200	33.6	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	ВМ
Lead, Dissolved	ND		ug/l	2.00	0.200	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	3930		ug/l	400	16.4	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Manganese, Dissolved	5580		ug/I	4.00	0 544	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Mercury, Dissolved	0.09013	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	0 08/23/10 13:13	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	5.81		ug/l	2.00	0.720	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Potassium, Dissolved	4240		ug/l	400	72.6	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Selenium, Dissolved	ND		ug/I	4.00	1.62	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Silver, Dissolved	ND		ug/I	2.00	0.340	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	20000		ug/l	400	72.8	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	ВМ
Thallium, Dissolved	ND	-	ug/l	2.00	0.124	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND.	-	ug/l	2.00	0.308	4	08/05/10 16:30	0 08/10/10 20:19	EPA 3005A	1,6020A	вм
Zinc, Dissolved	8.81	Ţ	ug/l	20.0	6.50	4	08/05/10 16:30	08/10/10 20:19	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

Sample Location:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-12

Client ID:

GP-10-11-059-U

Matrix:

Sodium, Total

DEVENS, MA Water

25300

ug/I

1000

Date Collected:

08/03/10 16:25

Date Received:

08/06/10 15:50 08/11/10 04:33 EPA 3005A

08/04/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	tborough L	ab									
Aluminum, Total	49400		ug/l	100	19.1	10	08/06/10 15:50	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Arsenic, Total	760		ug/l	5.00	1.13	10	08/06/10 15:50	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Calcium, Total	61600		ug/l	1000	126.	10	08/06/10 15:50	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Chromium, Total	264		ug/l	5.00	1.86	10	08/06/10 15:50	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Iron, Total	148000		ug/I	500	84.1	10	08/06/10 15:50	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Lead, Total	76.6		ug/l	5.00	0.500	10	08/06/10 15:5	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Magnesium, Total	15600		ug/l	1000	41.0	10	08/06/10 15:5	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Manganese, Total	7700		ug/l	10.0	1.36	10	08/06/10 15:5	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Nickel, Total	142		ug/I	5.00	1,80	10	08/06/10 15:5	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ
Potassium, Total	10500		ug/l	1000	182.	10	08/06/10 15:5	0 08/11/10 04:33	EPA 3005A	1,6020A	ВМ

182.

10

1,6020A

BM

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-13

Date Collected: Date Received: 08/04/10 13:05

Client ID: Sample Location: GP-10-11-064-F DEVENS, MA

08/04/10

Matrix:

Water

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - W	estboro	ugh Lab									
Aluminum, Dissolved	44.1	J	ug/l	10.0	1.91	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	ВМ
Antimony, Dissolved	1.19		ug/l	0.500	0.120	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	19.8		ug/l	0,500	0.113	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Barium, Dissolved	26.5		ug/l	0.500	0.095	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	ВМ
Beryllium, Dissolved	ND		ug/l	0.500	0.059	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Calcium, Dissolved	44400	J	ug/I	100	12.6	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Chromium, Dissolved	0.600		ug/l	0.500	0.186	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Cobalt, Dissolved	3.39		ug/l	0.500	0.053	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Copper, Dissolved	0.49	J	ug/l	0.500	0.118	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Iron, Dissolved	3440		ug/f	50.0	8.41	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Lead, Dissolved	0.18	J	ug/I	0.500	0,050	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	7570	J	ug/l	100	4.10	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Manganese, Dissolved	1100	J	ug/l	1.00	0.136	9	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	ВМ
Mercury, Dissolved	0.03814	Ĵ	ug/l	0.2000	0.0120	1	08/20/10 18:3	0 08/23/10 13:15	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	7.33		ug/t	0,500	0 180	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Potassium, Dissolved	25400	J	ug/l	100	18.2	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Selenium, Dissolved	0.42	J	ug/l	1.00	0.406	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	49200	J	ug/I	100	18.2	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	ВМ
Thallium, Dissolved	ND	0 0	ug/i	0.500	0.031	. 1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	ВМ ,
Vanadium, Dissolved	0.2	J 13	ug/l	0.500	0.077	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм
Zinc, Dissolved	1.81	J	ug/l	5.00	1.62	1	08/05/10 16:3	0 08/10/10 20:32	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

Lab ID:

SAMPLE RESULTS

Client ID:

L1011870-14 GP-10-11-064-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 13:05

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	tborough L	_ab									
Aluminum, Total	56600		ug/l	50.0	9 56	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	вм
Arsenic, Total	230		ug/l	2.50	0.565	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	вм
Calcium, Total	285000		ug/l	500	63.3	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	ВМ
Chromium, Total	744		ug/I	2.50	0.930	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	ВМ
Iron, Total	180000		ug/l	250	42.0	5	08/06/10 15:50	08/11/10 04:45	EPA 3005A	1,6020A	ВМ
Lead, Total	65.2		ug/l	2.50	0.250	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	ВМ
Magnesium, Total	30600	J	ug/l	500	20,5	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	вм
Manganese, Total	7160		ug/l	5.00	0.680	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	ВМ
Nickel, Total	207		ug/l	2.50	0.900	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	ВМ
Potassium, Total	40200		ug/l	500	90.8	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	ВМ
Sodium, Total	61200		ug/l	500	91.0	5	08/06/10 15:50	0 08/11/10 04:45	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

AC001

Lab Number:

L1011870

Project Number:

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-15

08/04/10 10:37

Client ID: Sample Location: GP-10-20-029-F DEVENS, MA

Date Collected: Date Received:

08/04/10

Matrix:

Water

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals	- Westboro	ugh Lab									
Arsenic, Dissolved	235		ug/l	2.50	0.565	5	08/05/10 16:3	0 08/10/10 23:05	EPA 3005A	1,6020A	вм
Iron, Dissolved	56800		ug/l	250	42.0	5	08/05/10 16:3	0 08/10/10 23:05	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

Sample Location:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-16

GP-10-20-029-U

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 10:37

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - W	estborough L	_ab									
Arsenic, Total	220		ug/l	2.50	0.565	5	08/06/10 15:5	0 08/11/10 05:27	EPA 3005A	1,6020A	ВМ
Iron, Total	53000		ug/l	250	42.0	5	08/06/10 15:5	0 08/11/10 05:27	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

10004

Lab Number:

L1011870

Project Number:

Sample Location:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-17

Client ID:

GP-10-20-039-F DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 11:26

Date Received:

08/04/10

Field Prep:

See Narrative

Analytical Method Dilution Date Date Prep Qualifier Factor Prepared Analyzed Method Result Units Parameter RL MDL **Analyst** Dissolved Metals - Westborough Lab 429 2.50 0.565 08/05/10 16:30 08/11/10 00:05 EPA 3005A 1,6020A BM Arsenic, Dissolved ug/l 5 Iron, Dissolved 13300 250 5 08/05/10 16:30 08/11/10 00:05 EPA 3005A 1,6020A ug/I 42.0 BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-18 GP-10-20-039-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

Date Received:

08/04/10 11:26 08/04/10

Field Prep:

J8/U4/1U

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
stborough L	_ab									
446		ug/l	2.50	0.565	5	08/06/10 15:5	0 08/11/10 05:58	EPA 3005A	1,6020A	вм
16800		ug/I	250	42 0	5	08/06/10 15:5	0 08/11/10 05:58	EPA 3005A	1,6020A	вм
	estborough L 446	estborough Lab 446	estborough Lab 446 ug/l	estborough Lab 446 ug/l 2.50	estborough Lab 446 ug/l 2.50 0.565	Result Qualifier Units RL MDL Factor estborough Lab 446 ug/l 2.50 0.565 5	Result Qualifier Units RL MDL Factor Prepared estborough Lab 446 ug/l 2.50 0.565 5 08/06/10 15:5	Result Qualifier Units RL MDL Factor Prepared Analyzed estborough Lab 446 ug/l 2.50 0.565 5 08/06/10 15:50 08/11/10 05:58	Result Qualifier Units RL MDL Factor Prepared Analyzed Method estborough Lab 446 ug/l 2.50 0.565 5 08/06/10 15:50 08/11/10 05:58 EPA 3005A	Result Qualifier Units RL MDL Factor Prepared Analyzed Method estborough Lab 446 ug/l 2.50 0.565 5 08/06/10 15:50 08/11/10 05:58 EPA 3005A 1,6020A

 Project Name:
 SHL TASK 0002
 Lab Number:
 £1011870

 Project Number:
 AC001
 Report Date:
 09/14/10

SAMPLE RESULTS

 Lab ID:
 L1011870-19
 Date Collected:
 08/04/10 14:32

 Client ID:
 GP-10-21-011-F
 Date Received:
 08/04/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.31	J	ug/l	0.500	0.113	1	08/05/10 16:30	0 08/11/10 00:36	EPA 3005A	1,6020A	вм
Iron, Dissolved	501		ug/l	50.0	8.41	1	08/05/10 16:30	0 08/11/10 00:36	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-20

Client ID:

GP-10-21-011-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/04/10 14:32

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	3.98		ug/l	0.500	0.113	1	08/06/10 15:5	0 08/11/10 06:40	EPA 3005A	1,6020A	ВМ
Iron, Total	2550		ug/l	50.0	8.41	1	08/06/10 15:5	0 08/11/10 06:40	EPA 3005A	1,6020A	вм

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

Lab ID: Client ID: L1011870-21

DUP-080410-F

Sample Location: Matrix: DEVENS, MA Water Date Collected:

08/04/10 09:45

Date Received:

08/04/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	5.81	J	ug/l	10.0	1.91	1	08/05/10 16:30	0 08/10/10 21:14	EPA 3005A	1,6020A	вм
Antimony, Dissolved	0.21	J	ug/l	0.500	0.120	Ť	08/05/10 16:30	0 08/10/10 21:14	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	0.660		ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	вм
Barium, Dissolved	32.1		ug/l	0.500	0.095	1	08/05/10 16:30	0 08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Beryllium, Dissolved	ND		ug/I	0.500	0.059	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Cadmium, Dissolved	0.08	J	ug/l	0.500	0.059	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	12500		ug/l	100	12.6	1	08/05/10 16:30	0 08/10/10 21:14	EPA 3005A	1,6020A	вм
Chromium, Dissolved	0.43	J	ug/l	0.500	0.186	1	08/05/10 16:30	0 08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Cobalt, Dissolved	2.09		ug/l	0.500	0.053	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Copper, Dissolved	1.00		ug/l	0.500	0.118	1	08/05/10 16:30	0 08/10/10 21:14	EPA 3005A	1,6020A	вм
Iron, Dissolved	1630		ug/l	50.0	8.41	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/l	0.500	0 050	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	1620		ug/l	100	4.10	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	вм
Manganese, Dissolved	933		ug/l	1 00	0 136	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	вм
Mercury, Dissolved	ND		ug/l	0.2000	0,0120	1	08/20/10 18:30	08/23/10 13:24	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	5.21		ug/l	0.500	0.180	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	вм
Potassium, Dissolved	3700		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Selenium, Dissolved	0.59	J	ug/l	1.00	0 406	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Silver, Dissolved	ND		ug/I	0.500	0.085	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	122000		ug/l	100	18,2	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	вм
Thallium, Dissolved	0.07	J "	ug/l	0.500	0.031	1"	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ
Vanadium, Dissolved	0.15	J	uig/l	0.500	0.077	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	вм
Zinc, Dissolved	5.18		ug/l	5.00	1.62	1	08/05/10 16:30	08/10/10 21:14	EPA 3005A	1,6020A	ВМ

SAMPLE RESULTS

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-22

Client ID: Sample Location: DUP-080410-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 09:45

Date Received:

08/04/10

Field Prep:

eid i iep.		1401 Speci	pecined		
	-	- C/ C			

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough l	_ab									
Aluminum, Total	573		ug/l	20.0	3.82	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Arsenic, Total	3.11		ug/l	1.00	0.226	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	ВМ
Calcium, Total	12500		ug/l	200	25.3	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Chromium, Total	3.31		ug/I	1.00	0.372	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Iron, Total	2630		ug/l	100	16.8	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Lead, Total	0.99	J	ug/l	1.00	0.100	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Magnesium, Total	1750		ug/l	200	8.20	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Manganese, Total	949		ug/l	2.00	0.272	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Nickel, Total	7.24		ug/I	1.00	0.360	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Potassium, Total	4170		ug/l	200	36.3	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	вм
Sodium, Total	128000		ug/l	200	36.4	2	08/06/10 15:5	0 08/11/10 07:10	EPA 3005A	1,6020A	ВМ

Project Name: Lab Number: SHL TASK 0002

Report Date: 09/14/10

L1011870

Project Number: AC001

SAMPLE RESULTS

Lab ID: Client ID: Sample Location: L1011870-23 RB-080410-U DEVENS, MA Date Collected: Date Received: Field Prep:

08/04/10 11:00 08/04/10 Not Specified

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/07/10 16:1	5 08/11/10 07:53	EPA 3005A	1,6020A	ВМ
Iron, Total	10.6	J	ug/l	50.0	8.41	1	08/07/10 16:1	5 08/11/10 07:53	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

L1011870-24

Project Number:

AC001

Lab Number:

L1011870

Report Date:

09/14/10

Date Collected:

08/04/10 14:00 08/04/10

RB2-080410-U Client ID: Sample Location: DEVENS, MA

Lab ID:

Date Received: Field Prep:

Not Specified

//atrix:	Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough l	_ab									
Aluminum, Total	2.47	J	ug/l	10.0	1.91	1	08/07/10 16:1:	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Calcium, Total	49.6	J	ug/l	100	12,6	1.	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Chromium, Total	0.27	J	ug/I	0.500	0.186	1	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Iron, Total	11.3	J	ug/i	50.0	8.41	+	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Lead, Total	ND		ug/l	0,500	0.050	1	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Magnesium, Total	ND		ug/l	100	4.10	1	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	BM
Manganese, Total	0.18	J	ug/I	1.00	0.136	1	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Nickel, Total	ND		ug/l	0.500	0.180	7	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	вм
Potassium, Total	ND		ug/l	100	18.2	1	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ
Sodium, Total	ND		ug/l	100	18.2	1	08/07/10 16:1	5 08/11/10 08:24	EPA 3005A	1,6020A	ВМ

SAMPLE RESULTS

Project Name:

Project Number:

SHL TASK 0002

AC001

Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-25

Sample Location:

DUP2-080410-F DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:15

Date Received:

08/04/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	8.05	J	ug/l	20.0	3.82	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	0.63	J	ug/l	1.00	0.226	2	08/07/10 16:15	6 08/11/10 09:07	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	22900		ug/l	200	25.3	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	вм
Chromium, Dissolved	0.52	J	ug/l	1.00	0.372	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	вм
Iron, Dissolved	1030		ug/l	100	16.8	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/l	1.00	0.100	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	2780		ug/l	200	8.20	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	1080		ug/l	2.00	0.272	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	вм
Nickel, Dissolved	7.48		ug/l	1,00	0.360	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	вм
Potassium, Dissolved	4790		ug/I	200	36.3	2	08/07/10 16:15	5 08/11/10 09:07	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	149000		ug/į	200	36.4	2	08/07/10 16:1	5 08/11/10 09:07	EPA 3005A	1,6020A	ВМ

Project Name: **Project Number:** SHL TASK 0002

AC001

Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-26

Client ID: Sample Location: DUP2-080410-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:15

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	tborough L	_ab									
Aluminum, Total	344		ug/l	20.0	3.82	2	08/07/10 16:15	5 08/11/10 09:37	EPA 3005A	1,6020A	вм
Arsenic, Total	1.48		ug/l	1.00	0,226	2	08/07/10 16:15	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Calcium, Total	21600		ug/l	200	25.3	2	08/07/10 16:15	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Chromium, Total	2.76		ug/l	1.00	0.372	2	08/07/10 16:1	5 08/11/10 09:37	EPA 3005A	1,6020A	вм
Iron, Total	1550		ug/l	100	16.8	2	08/07/10 16:15	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Lead, Total	0.9	J	ug/l	1.00	0.100	2	08/07/10 16:1	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Magnesium, Total	2690		ug/l	200	8.20	2	08/07/10 16:1:	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Manganese, Total	1020		ug/l	2.00	0.272	2	08/07/10 16:1	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Nickel, Total	8.01		ug/l	1.00	0.360	2	08/07/10 16:1	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Potassium, Total	4540		ug/I	200	36.3	2	08/07/10 16:1	5 08/11/10 09:37	EPA 3005A	1,6020A	ВМ
Sodium, Total	147000		ug/l	200	36.4	2	08/07/10 16:1	5 08/11/10 09:37	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

Lab ID:

L1011870-27

Client ID:

GP-10-21-021-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:15

Date Received:

08/04/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab								•	
Aluminum, Dissolved	6.21	J	ug/l	20,0	3.82	2	08/07/10 16:1:	5 08/11/10 10:20	EPA 3005A	1,6020A	ВМ
Arsenic, Dissolved	0.62	J	ug/l	1.00	0.226	2	08/07/10 16:1	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Calcium, Dissolved	21600	J	ug/l	200	25.3	2	08/07/10 16:1	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Chromium, Dissolved	0.43	J	ug/l	1.00	0.372	2	08/07/10 16:1:	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Iron, Dissolved	984		ug/l	100	16.8	2	08/07/10 16:1:	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/I	1.00	0.100	2	08/07/10 16:1:	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	2580		ug/l	200	8.20	2	08/07/10 16:1:	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Manganese, Dissolved	1020	J	ug/l	2.00	0.272	2	08/07/10 16:1	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Nickel, Dissolved	7.25		ug/l	1.00	0.360	2	08/07/10 16:1:	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Potassium, Dissolved	4520		ug/l	200	36.3	2	08/07/10 16:1	5 08/11/10 10:20	EPA 3005A	1,6020A	вм
Sodium, Dissolved	153000		ug/l	200	36.4	2	08/07/10 16:1:	5 08/11/10 10:20	EPA 3005A	1,6020A	вм

SAMPLE RESULTS

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-28

Client ID:

GP-10-21-021-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:15

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough l	_ab									
Aluminum, Total	446		ug/I	20.0	3.82	2	08/07/10 16:1:	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Arsenic, Total	1.71		ug/l	1.00	0.226	2	08/07/10 16:1	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Calcium, Total	22100		ug/l	200	25,3	2	08/07/10 16:19	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Chromium, Total	3.23		ug/l	1.00	0.372	2	08/07/10 16:1	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Iron, Total	1730		ug/l	100	16.8	2	08/07/10 16:1	5 08/11/10 10:51	EPA 3005A	1,6020A	ВМ
Lead, Total	0.53	J	ug/I	1.00	0.100	2	08/07/10 16:1:	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Magnesium, Total	2760		ug/l	200	8.20	2	08/07/10 16:1:	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Manganese, Total	1050		ug/l	2.00	0.272	2	08/07/10 16:1	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Nickel, Total	8.51		ug/l	1.00	0.360	2	08/07/10 16:1:	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Potassium, Total	4690		ug/I	200	36.3	2	08/07/10 16:1	5 08/11/10 10:51	EPA 3005A	1,6020A	вм
Sodium, Total	155000		ug/l	200	36.4	2	08/07/10 16:1	5 08/11/10 10:51	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Dissolved Metals - We	estborough Lab for samp	ole(s): 01	,03,05,0	7,15,1	7,19 Batch	: WG426282-	1		
Arsenic, Dissolved	ND	ug/l	0.500	0.113	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Iron, Dissolved	ND	ug/i	50.0	8.41	1	08/05/10 16:30	08/10/10 19:31	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Dissolved Metals - Wes	tborough La	b for samp	ole(s): 09	,11,13,2	1 Bat	ch: WG42	6283-1			
Aluminum, Dissolved	2.34	J	ug/l	10.0	1.91	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Antimony, Dissolved	ND		ug/l	0.500	0.120	1	08/05/10 16:30	08/10/10 19:31	1,6020A	ВМ
Arsenic, Dissolved	ND		ug/I	0.500	0.113	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Barium, Dissolved	ND		ug/l	0.500	0.095	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Beryllium, Dissolved	ND		ug/I	0.500	0.059	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Cadmium, Dissolved	ND		ug/l	0 500	0.059	1	08/05/10 16 30	08/10/10 19:31	1,6020A	вм
Calcium, Dissolved	ND		ug/l	100	12.6	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Chromium, Dissolved	ND		ug/l	0.500	0.186	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Cobalt, Dissolved	ND		ug/l	0.500	0.053	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Copper, Dissolved	ND		ug/l	0.500	0.118	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Iron, Dissolved	ND		ug/l	50.0	8.41	11	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Magnesium, Dissolved	ND	* *	ug/l	100	4.10	Ť,	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Manganese, Dissolved	ND "		ug/l	1.00	0.136	- 1	08/05/10 16:30	08/10/10 19:31	1,6020A	ВМ
Nickel, Dissolved	ND		ug/l	0.500	0.180	3	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Potassium, Dissolved	ND		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Selenium, Dissolved	ND		ug/l	1.00	0.406	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Silver, Dissolved	0.830		ug/l	0.500	0.085	-1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Sodium, Dissolved	ND		ug/l	100	18.2	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Thallium, Dissolved	ND		ug/l	0.500	0.031	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Vanadium, Dissolved	ND		ug/l	0.500	0.077	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм
Zinc, Dissolved	ND		ug/l	5.00	1.62	1	08/05/10 16:30	08/10/10 19:31	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number: AC001

Report Date:

09/14/10

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		Date Analyzed	Analytical Method	
Total Metals - Westborough	Lab fo	r sample(s):	02,04,0	06,08,16	18,20	Batch:	WG426477-1			
Arsenic, Total	ND		ug/l	0.500	0.113	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм
Iron, Total	12.7	J	ug/l	50.0	8.41	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westboroug	gh Lab fo	r sample(s):	10,12,1	4,22 B	atch:	WG426479-	1			
Aluminum, Total	ND		ug/l	10.0	1.91	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм
Arsenic Total	ND		ug/l	0.500	0.113	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм
Calcium, Total	ND		ug/l	100	12.6	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм
Chromium, Total	ND		ug/l	0.500	0.186	1	08/06/10 15:50	08/11/10 02:25	1,6020A	ВМ
Iron, Total	12,7	J	ug/l	50.0	8.41	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм
Lead, Tolal	ND		ug/l	0.500	0.050	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм
Magnesium, Total	ND		ug/l	100	4.10	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм
Manganese, Total	ND		ug/l	1.00	0.136	1	08/06/10 15:50	08/11/10 02:25	1,6020A	ВМ
Nickel, Total	ND		ug/I	0.500	0.180	×1 0 %	08/06/10 15:50	08/11/10 02:25	1,6020A	ВМ
Potassium, Total	'ND	P = 9 :	ug/I	100	18.2	1 1 7	08/06/10 15:50	08/11/10 02:25	1,6020A	BM -
Sodium, Total	ND		ug/l	100	18.2	1	08/06/10 15:50	08/11/10 02:25	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualific	er Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Westbor	ough Lab for sample	e(s): 23-24,	26,28	Batch:	WG426592	-1			
Aluminum, Total	ND	ug/l	10.0	1.91	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ



Project Name: SHL TASK 0002

Lab Number:

L1011870

Project Number: AC001

Report Date:

09/14/10

Method Blank Analysis Batch Quality Control

Arsenic, Total	ND		ug/l	0.500	0.113	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ
Calcium, Total	18.8	J	ug/l	100	12.6	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ
Chromium, Total	ND		ug/l	0.500	0.186	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ
Iron, Total	11.5	J	ug/l	50.0	8.41	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ
Lead, Total	ND		ug/I	0,500	0.050	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Magnesium, Total	ND		ug/l	100	4.10	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Manganese, Total	ND		ug/l	1.00	0.136	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Nickel, Total	ND		ug/l	0.500	0.180	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Potassium, Total	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ
Sodium, Total	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Parameter	Result 0	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - West	oorough Lab	for samp	ole(s): 25	,27 Ba	tch: W	G426595-1				
Aluminum, Dissolved	ND		ug/I	10.0	1.91	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Calcium, Dissolved	18.8	J	ug/l	100	12.6	1	08/07/10 16:15	08/11/10 02:44	1,6020A	ВМ
Chromium, Dissolved	ND		ug/I	0.500	0.186	Ť	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Iron, Dissolved	11.5	J	ug/l	50.0	8.41	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Magnesium, Dissolved	ND		ug/l	100	4.10	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Manganese, Dissolved	ND		- ug/i	1.00	0.136	. 1	08/07/10 16:15	08/11/10 02:44	1,6020A	BM.
Nickel, Dissolved	ND		ug/l	. 0.500	0.180	. 1	08/07/10 16:15	08/11/10 02:44	- 1,6020A	вм
Potassium, Dissolved	ND		ug/I	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм
Sodium, Dissolved	ND		ug/l	100	18.2	1	08/07/10 16:15	08/11/10 02:44	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Prepared Analyzed Method Analyst **Parameter** Result Qualifier Units RL MDL Factor

Dissolved Metals - Westborough Lab for sample(s): 11,13 Batch: WG428705-1

Mercury, Dissolved

0.03447

ug/l

0.2000 0.0120

08/20/10 18:30 08/23/10 13:10 1,7470A

EZ

Prep Information

Digestion Method: EPA 7470A

Dilution Date Analytical Date Method Analyst Result Qualifier Units Factor Prepared Analyzed Parameter RL MDL Dissolved Metals - Westborough Lab for sample(s): 21 Batch: WG428706-1 0.1159 Mercury, Dissolved 0.2000 0.0120 08/23/10 13:21 1,7470A EZ ug/l 08/20/10 18:30

Prep Information

Digestion Method:

EPA 7470A

SHL TASK 0002 Batch Quality Control

Lab Number:

L1011870

Report Date:

09/14/10

Parameter	LCS %Recovery	LCSD Qual %Recovery	/ Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01,03,05,07,15,17,19	Batch: WG	426282-2			
Arsenic, Dissolved	101			80-120	4		
Iron, Dissolved	106	2		80-120	4		

Project Name:

Project Number:

AC001

Project Name:

SHL TASK 0002

14

Project Number: AC001

Lab Number:

L1011870

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	09,11,13,21 Batch: W	/G426283-2		
Aluminum, Dissolved	94		80-120	1	
Antimony, Dissolved	.100		80-120	*	
Arsenic, Dissolved	101	¥11	80-120	2	
Barium, Dissolved	100	-	80-120	2	
Beryllium, Dissolved	102	in the	80-120	*	
Cadmium, Dissolved	4317	21	80-120	0.1	
Calcium, Dissolved	100		80-120	1-71	
Chromium, Dissolved	96		80-120	4-1	
Cobalt, Dissolved	102	1	80-120	*	
Copper, Dissolved	102	-	80-120	****	
Iron, Dissolved	106	-	80-120	-	
Lead, Dissolved	100	*	80-120	· A	
Magnesium, Dissolved	102		80-120		
Manganese, Dissolved	101	4	80-120	-8	
Nickel, Dissolved	102	τ.	80-120		
Potassium, Dissolved	100	*	80-120		
Selenium, Dissolved	107	4	80-120	*	
Silver, Dissolved	97	Qui	80-120	192	
Sodium, Dissolved	101		80-120		
Thallium, Dissolved	.93		80-120	8	
Vanadium, Dissolved	99	-	80-120	7.	

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s): 09,	11,13,21 Batch: WG42628	33-2		
Zinc, Dissolved	102		80-120	.7	
Total Metals - Westborough Lab Ass	ociated sample(s): 02,04,06	5,08,16,18,20 Batch: WG4	26477-2		
Arsenic, Total	106	1	80-120	i.e.	
Iron, Total	109		80-120	-	
Total Metals - Westborough Lab Ass	ociated sample(s): 10,12,14	,22 Batch: WG426479-2			
Aluminum, Total	96	10	80-120	9	
Arsenic, Total	106		80-120		
Calcium, Total	104	*	80-120	1 2	
Chromium, Total	. 98	*	80-120	*	
Iron, Total	109	1	80-120	#	
Lead, Total	104	\$ m	80-120	2	
Magnesium, Total	105	4	80-120	-	
Manganese, Total	105		80-120	42	
Nickel, Total	104	-	80-120	-	
Potassium, Total	102		80-120		
Sodium, Total	111	1	80-120		

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 23-24,26,28	Batch: WG426592-2			
Aluminum, Total	98	4)	80-120	-	
Arsenic, Total	103	4	80-120	20	
Calcium, Total	105		80-120	5	
Chromium, Total	100	30	80-120		
Iron, Total	.111	4	80-120	**	
Lead, Total	-105	4	80-120	.21	
Magnesium, Total	106		80-120	4	
Manganese, Total	106	30	80-120		
Nickel, Total	107	3.1	80-120	(3)	
Potassium, Total	105	(4)	80-120	-	
Sodium, Total	113	30	80-120	-	

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

Parameter				CSD ecovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	25,27	Batch:	WG426595-2			
Aluminum, Dissolved	98			4	80-120	-	
Arsenic, Dissolved	103				80-120	*	
Calcium, Dissolved	105			2	80-120	-2	
Chromium, Dissolved	100			4	80-120		
Iron, Dissolved	1017				80-120	-	
Lead, Dissolved	105				80-120	19	
Magnesium, Dissolved	106			RII	80-120		
Manganese, Dissolved	106				80-120	3	
Nickel, Dissolved	107			-	80-120		
Potassium, Dissolved	105			*	80-120	9	
Sodium, Dissolved	113			Ŷ.	80-120	3	
Dissolved Metals - Westborough Lab	Associated sample(s):	11,13	Batch:	WG428705-2			
Mercury, Dissolved	119			-	80-120	*	20
Dissolved Metals - Westborough Lab	Associated sample(s):	21 B	atch: W	/G428706-2			
Mercury, Dissolved	118			2-	80-120	*	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recov Qual Limit	E/100	Qual	RPD Limits
Dissolved Metals - Westborou Client ID: GP-10-20-009-F	gh Lab Assoc	iated sample	e(s): 01,03,	05,07,15,17,19	QC E	Batch ID: W	/G426282-3 W	G426282-4 Q	C Sample:	L1011	870-07
Arsenic, Dissolved	ND	120 .	125	104		125	104	80-120	0 0		20
Iron, Dissolved	1260	1000	2290	103		2330	107	80-120	0 2		20

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

Parameter	Native Sample	MS . Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westboro GP-10-11-064-F	ugh Lab Assoc	iated sample	(s): 09,11,1:	3,21 QC Batch	ID: WG426283-3	WG426283-4	QC Sample: L	1011870-13	Client ID:
Aluminum, Dissolved	44.1	2000	1950	95	1890	92	80-120	3	20
Antimony, Dissolved	1 19	500 '	515	103	512	102	80-120	1	20
Arsenic, Dissolved	19.8	120	145	104	144	104	80-120	1	20
Barium, Dissolved	26.5	2000	2070	102	2040	101	80-120	1	20
Beryllium, Dissolved	ND	50	53,5	107	52.8	106	80-120	1	20
Cadmium, Dissolved	ND	51	57.9	114	57.4	112	80-120	1	20
Calcium, Dissolved	44400	10000	55300	109	55400	110	80-120	0	20
Chromium, Dissolved	0.600	200	194	97	192	96	80-120	Ĭ	20
Cobalt, Dissolved	3,39	500	519	103	511	102	80-120	2	20
Copper, Dissolved	ND	250	260	104	253	101	80-120	3	20
Iron, Dissolved	3440	1000	4580	114	4550	111	80-120	1	20
Lead, Dissolved	ND	510	527	103	519	102	80-120	2	20
Magnesium, Dissolved	7570	10000	17800	102	17700	101	80-120	1	20
Manganese, Dissolved	1100	500	1630	106	1630	106	80-120	0	20
Nickel, Dissolved	7,33	500 °	521	103	512	101	80-120	2	20
Potassium, Dissolved	25400	10000	35900	105	35300	99	80-120	2	20
Selenium, Dissolved	ND	120	123	102	122	102	80-120	1	20
Silver, Dissolved	ND	50	49.5	99	48.2	96	80-120	3	20
Sodium, Dissolved	49200	10000	61200	120	61400	122	80-120	0	20
Thallium, Dissolved	ND	120	114	95	113	94	80-120	2	20
Vanadium, Dissolved	ND	500	505	101	495	99	80-120	2	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

		MS Added	MS Found	MS %Recovery	MSD MSD Found %Recovery		Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough GP-10-11-064-F	Lab Assoc	lated sample	(s): 09,11,	13,21 QC Batch I	D: WG426283-3	WG426283-4	QC Sample: L1	011870-13	Client ID:
Zinc, Dissolved	ND	500	521	104	508	102	80-120	3	20
Total Metals - Westborough Lab ID: GP-10-20-009-U	Associated	sample(s): 0	2,04,06,08	3,16,18,20 QC Ba	tch ID: WG4264	77-3 WG4264	77-4 QC Sample	e: L101187	0-08 Clien
Arsenic, Total	1.60	120	132	109	137	113	80-120	4	20
Iron, Total	2000	1000	2970	97	3050	105	80-120	3	20
Total Metals - Westborough Lab 10-11-064-U	Associated	sample(s): 1	0,12,14,22	QC Batch ID: W	G426479-3 WG	6426479-4 QC	Sample: L10118	370-14 Cli	ent ID: GP-
Aluminum, Total	56600	2000	54600	0	54700	0	80-120	0	20
Arsenic, Total	230	120	344	95	340	92	80-120	1	20
Calcium, Total	285000	10000	282000	0	287000	20	80-120	2	20
Chromium, Total	744	200	890	73	886	71	80-120	0	20
Iron, Total	180000	1000	172000	0	170000	0	80-120	1	20
Lead, Total	65.2	510	606	106	602	105	80-120	1	20
Magnesium, Total	30600	10000	38300	77	38700	81	80-120	1	20
Manganese, Total	7160	500	7300	28	7290	26	80-120	0	20
Nickel, Total	207	500	648	88	654	89	80-120	1	20
Potassium, Total	40200	10000	48100	79	48200	80	80-120	0	20
Sodium, Total	61200	10000	72100	109	70300	91	80-120	3	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab DUP2-080410-U	Associated	sample(s);	23-24,26,28	QC Batch ID	: WG426592-3	WG426592-4	QC Sample: L1011	870-26	Client ID:
Aluminum, Total	344	2000 -	2290	97	2230	94	80-120	3	20
Arsenic, Total	1.48	120	138	114	136	112	80-120	1	20
Calcium, Total	21600	10000	33100	115	32200	106	80-120	3	20
Chromium, Total	2.76	200	196	97	193	95	80-120	2	20
Iron, Total	1550	1000	2630	108	2600	105	80-120	1	20
Lead, Total	ND	510	565	111	563	110	80-120	0	20
Magnesium, Total	2690	10000	13100	104	13000	103	80-120	1	20
Manganese, Total	1020	500	1560	108	1530	102	80-120	2	20
Nickel, Total	8.01	500	520	102	512	101	80-120	2	20
Potassium, Total	4540	10000	15300	108	14800	103	80-120	3	20
Sodium, Total	147000	10000	162000	150	158000	110	80-120	3	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recove	ery	Recovery Limits	RPD		PD mits
Dissolved Metals - Westbook 21-021-F	rough Lab Assoc	iated sample	(s): 25,27	QC Batch ID:	WG42	6595-3 WO	G426595-4	QC Sam	ple: L101187	70-27	Client ID:	GP-10
Aluminum, Dissolved	ND	2000	1950	98		1800	90		80-120	8		20
Arsenic, Dissolved	ND	120	136	113		130	108		80-120	5		20
Calcium, Dissolved	21600	10000	33900	123	Q	30100	85		80-120	12		20
Chromium, Dissolved	ND	200	196	98		181	90		80-120	8		20
Iron, Dissolved	984	1000	2070	109		1850	67		80-120	11		20
Lead, Dissolved	ND	510 .	572	112		538	105		80-120	6		20
Magnesium, Dissolved	2580	10000	13300	107		12100	95		80-120	9		20
Manganese, Dissolved	1020	500	1570	110		1400	76	Q	80-120	11		20
Nickel, Dissolved	7.25	500	521	103		484	95		80-120	7		20
Potassium, Dissolved	4520	10000	15400	109		14100	96		80-120	9		20
Sodium, Dissolved	153000	10000	165000	120		151000	0		80-120	9		20
Dissolved Metals - Westbor 11-064-F	ough Lab Assoc	ated sample	(s): 11,13	QC Batch ID:	WG42	8705-5 WG	6428705-6	QC Samp	ole: L101187	0-13	Client ID:	GP-10
Mercury, Dissolved	ND	1	1.276	128	Q	1.282	128	Q	80-120	0		20
Dissolved Metals - Westbor 080410-F	ough Lab Assoc	ated sample	(s): 21 Q	C Batch ID: WG	642870)6-3 WG42	8706-4 QC	Sample:	L1011870-2	21 Cli	ent ID: DU	JP-
Mercury, Dissolved	ND	1	1.301	130	Q	1,292	129	Q	80-120	4		20

INORGANICS & MISCELLANEOUS



Project Name: SHL TASK 0002

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID: Client ID: L1011870-02

Sample Location:

GP-10-19-029-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 15:48

Date Received:

08/04/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Factor Prepared MDL Analyzed Parameter Result Qualifier Units RL **Analyst** General Chemistry - Westborough Lab Solids, Total Suspended 160 mg/l 5.0 NA 1 08/09/10 17:20 30,2540D DW Dissolved Organic Carbon 4.7 1.0 1.0 08/04/10 23:00 08/11/10 10:34 30,5310C DW mg/l

Project Name: SHL TASK 0002 Lab Number:

L1011870

Project Number: AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-04 GP-10-19-039-U

Date Collected: 08/03/10 16:30

Client ID: Sample Location:

DEVENS, MA

08/04/10

Matrix:

Water

Date Received:

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Solids, Total Suspended	89		mg/l	5.0	NA	1	9	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	5.1		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011870

Project Number: AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-06

Client ID: Sample Location:

GP-10-19-046-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 17:28

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	440		mg/l	5.0	NA	1	4	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	4.9		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number:

L1011870

Project Number: AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-08 GP-10-20-009-U 08/04/10 08:50

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected: Date Received: 08/04/10 Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	1								
Solids, Total Suspended	150		mg/l	5.0	NA	1	14	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	1.2		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number:

L1011870

Project Number: AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-10

Client ID: Sample Location:

GP-10-20-019-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 09:45

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	16		mg/t	5.0	NA	1	1-21	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	1.6		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-12

Client ID: Sample Location: GP-10-11-059-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 16:25

Date Received:

08/04/10

Field Prep:

Not Specified

Dilution Date Date **Analytical** Qualifier Units RL MDL Factor Prepared Analyzed Method Parameter Result Analyst General Chemistry - Westborough Lab 2.0 NA JO Alkalinity, Total 210 mg CaCO3/L 08/09/10 14:26 30,2320B 1 50 NA 10 08/09/10 17:20 30,2540D DW Solids, Total Suspended 13000 mg/l 08/10/10 01:12 30,4500NH3-BH AT Nitrogen, Ammonia 0.0281 0.075 0.017 1 08/05/10 14:10 mg/l 0.02 0.002 08/04/10 22:37 30,4500NO2-B DD Nitrogen, Nitrite ND mg/l 1 ND 0.10 0.10 1 08/09/10 18:00 08/09/10 19:00 30,4500S2-AD AT Sulfide mg/l 7.0 180 20 1 08/06/10 15:28 44,410.4 DW Chemical Oxygen Demand mg/l Dissolved Organic Carbon 1.0 1.0 1 08/11/10 10:34 30,5310C DW 3.1 mg/l 08/04/10 23:00 Anions by Ion Chromatography - Westborough Lab Chloride 25 0.50 0.07 1 08/05/10 14:47 44,300.0 AU mg/l 0.01 Nitrogen, Nitrate 0.04 J 0.05 1 08/05/10 14:47 44,300.0 AU mg/l Sulfate 49 mg/l 1.0 0.12 1 08/13/10 21:58 44,300.0 AU

Project Name: SHL TASK 0002

Lab Number:

L1011870

Project Number: AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-14

Client ID:

GP-10-11-064-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 13:05

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	380	m	g CaCO3/L	2.0	NA	1		08/09/10 14:26	30,2320B	JO
Solids, Total Suspended	55000		mg/l	500	NA	100	Lei	08/09/10 17:20	30,2540D	DW
Nitrogen, Ammonia	1.29		mg/l	0.075	0.017	1	08/05/10 14:10	08/10/10 01:00	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		08/04/10 22:38	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	160		mg/l	20	7.0	1		08/06/10 15:28	44,410,4	DW
Dissolved Organic Carbon	2.8		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW
Anions by Ion Chromatog	graphy - West	borough L	ab							
Chloride	22		mg/l	0.50	0.07	1		08/05/10 15:35	44,300.0	AU
Nitrogen, Nitrate	0.045	J	mg/l	0.05	0.01	T.	.2	08/05/10 15:35	44,300.0	AU
Sulfate	32		mg/l	1.0	0.12	1	1.4	08/13/10 22:46	44,300.0	AU

Project Name: SHL TASK 0002 Lab Number:

L1011870

Project Number:

AC001

Report Date: 09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-16

Client ID: Sample Location: GP-10-20-029-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 10:37

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	180		mg/l	5.0	NA	1		08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	4.2		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-18

Client ID:

GP-10-20-039-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 11:26

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	120		mg/l	5.0	NA	1		08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	4.9		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number:

L1011870

Project Number: AC001

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-20

Client ID:

GP-10-21-011-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 14:32

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	v.								
Solids, Total Suspended	88		mg/l	5.0	NA	1		08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	ND		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

SAMPLE RESULTS

Lab ID:

L1011870-28

Client ID:

GP-10-21-021-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:15

Date Received:

08/04/10

Field Prep:

Parameter	Result (Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab							4		
Solids, Total Suspended	52		mg/l	5.0	NA	1	+	08/09/10 17:20	30,2540D	DW
Dissolved Organic Carbon	1.2		mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011870 09/14/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Qu	alifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab	for sample(s):	12,14 Bat	ch: WG	426097-2				
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	1	08/04/10 22:36	30,4500NO2-B	DD
General Chemistry - Wes	stborough Lab	for sample(s):	12,14 Bat	ch: WG	426308-1				
Nitrogen, Ammonia	ND	mg/l	0.075	0.017	1	08/05/10 14:10	08/10/10 00:45	30,4500NH3-BH	+ AT
Anions by Ion Chromato	graphy - Westb	orough Lab for	sample(s):	12,14	Batch: V	VG426317-1			
Chloride	ND	mg/l	0.50	0.07	1		08/05/10 12:11	44,300 0	AU
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	1.0	08/05/10 12:11	44,300.0	AU
General Chemistry - Wes	stborough Lab	for sample(s):	12,14 Bat	ch: WG	6426358-1				
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	4	08/06/10 15:21	44,410 4	DW
General Chemistry - Wes	stborough Lab	for sample(s):	02,04,06,0	8,10,12	14,16,18,	20,28 Batch:	WG426635-1		
Solids, Total Suspended	ND	mg/l	5.0	NA	1	4	08/09/10 17:20	30,2540D	DW
General Chemistry - Wes	stborough Lab	for sample(s):	12,14 Bat	ch: WG	426677-1				
kalinity, Total	ND	mg CaCC	03/L 2.0	NA	1		08/09/10 14:26	30,2320B	JO
General Chemistry - Wes	stborough Lab	for sample(s):	12,14 Bat	ch: WG	6426784-1				
Sulfide	ND	mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
General Chemistry - Wes	stborough Lab	for sample(s):	02,04,06,0	8,10,12	14,16,18,	20,28 Batch:	WG427152-1		
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/04/10 23:00	08/11/10 10:34	30,5310C	DW
Anions by Ion Chromatog	graphy - Westb	orough Lab for	sample(s):	12,14	Batch: V	VG427657-1			
Sulfate	ND	mg/l	1.0	0.12	1	* CONT. 140.	08/13/10 17:22	44,300.0	AU
		COL EX						0	

SHL TASK 0002

AC001

Project Name: Project Number: Lab Number:

L1011870

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s)	: 12,14	Batch: WG426	6097-1				
Nitrogen, Nitrite	94 2		×-		90-110	.€		20
General Chemistry - Westborough Lab	Associated sample(s)	12,14	Batch: WG426	308-2				
Nitrogen, Ammonia	.96		14		80-120	3		20
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample	e(s): 12,14 Bat	ch: WG4	26317-2			
Chloride	95				90-110			
Nitrogen, Nitrate	92 .		4		90-110	*		
General Chemistry - Westborough Lab	Associated sample(s)	12,14	Batch: WG426	358-2				
Chemical Oxygen Demand	95		4		95-105	4		
General Chemistry - Westborough Lab	Associated sample(s)	: 12,14	Batch WG426	677-2				
Alkalinity, Total	108,		+		80-115	4		4
General Chemistry - Westborough Lab	Associated sample(s)	12,14	Batch: WG426	784-2				
Sulfide	87				75-125	3		
General Chemistry - Westborough Lab	Associated sample(s)	02,04,0	06,08,10,12,14,16	5,18,20,28	Batch: WG427	152-2		
Dissolved Organic Carbon	98		e		90-110	-		

SHL TASK 0002

Project Number: AC001

Project Name:

Lab Number:

L1011870

Report Date:

Parameter	LCS %	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - We	stborough Lab Associated sai	mple(s): 12,14 Batch:	WG427657-2		
Sulfate	100	194	90-110		

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011870

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		overy mits R	PD Qua	RPD Limits
General Chemistry - Westboro	ugh Lab Asso	ciated samp	le(s): 12,14	QC Batch I	ID: WG42	26097-3	QC Sample: L	1011870-12	Client II	D: GP-10)-11-059-L
Nitrogen, Nitrite	ND	0.1	0.10	100		(4)	(+)	85	-115	ā.	20
General Chemistry - Westboro	ugh Lab Asso	ciated samp	le(s): 12,14	QC Batch I	ID: WG42	26308-3	QC Sample: L	1011870-14	Client II	D: GP-10)-11-064-L
Nitrogen, Ammonia	1.29	4	5.24	.99		•	٠	80	-120		20
Anions by Ion Chromatography Client ID: GP-10-11-064-U	y - Westborou	gh Lab Asso	ciated sam	ple(s): 12,14	QC Bat	ch ID: W	G426317-3 WG	426317-4	QC Sampl	e: L1011	870-14
Chloride	22	4	25	75		26	100	40	-151	4	18
Nitrogen, Nitrate	ND	0.4	0.40	100		0.41	102	80	-122	2	15
General Chemistry - Westboro	ugh Lab Asso	ciated samp	le(s): 12,14	QC Batch I	D: WG42	6358-3	QC Sample: L	1011792-02	Client II	D: MS S	ample
Chemical Oxygen Demand	ND	238	240	102		30	R	80	-120	4	20
General Chemistry - Westboro	ugh Lab Asso	ciated samp	le(s): 12,14	QC Batch I	D: WG42	6677-4	QC Sample: L	1011910-01	Client II	D: MS Sa	ample
Alkalinity, Total	26	100	130	106		16		86	-116	-	4
General Chemistry - Westboro	ugh Lab Asso	ciated samp	le(s): 12,14	QC Batch I	D: WG42	6784-3	QC Sample: L	1011870-14	Client II	D: GP-10)-11-064-L
Sulfide	ND	0.24	0.23	96		-	0	75	-125		20
General Chemistry - Westboro Client ID: GP-10-20-009-U	ugh Lab Asso	ciated samp	le(s): 02,04	,06,08,10,12,	14,16,18,	20,28 0	QC Batch ID: Wo	G427152-3	QC Sam	ple: L10	11870-08
Dissolved Organic Carbon	1,2	4	5.0	96		*		79	-120		20
Anions by Ion Chromatography Client ID: GP-10-11-064-U	/ - Westborou	gh Lab Asso	ciated samp	ole(s): 12,14	QC Bate	ch ID: Wo	G427657-3 WG	427657-4	QC Sample	e: L10118	870-14
Sulfate	32	8	39	88		40	100	60	-140	3	20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

ch Quality Control Lab Number: L1011870

Report Date: 09/14/10

Parameter	Nati	ve San	nple D	Suplicate Samp	ple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associate	ted sample(s):	12,14	QC Batch ID:	WG426097-4	QC Sample:	L1011870-14	Client ID:	GP-10-11-064-U
Nitrogen, Nitrite		ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab Associate	ed sample(s):	12,14	QC Batch ID:	WG426308-4	QC Sample:	L1011870-14	Client ID:	GP-10-11-064-U
Nitrogen, Ammonia	*	1.29		1.27	mg/l	2		20
Anions by Ion Chromatography - Westborough L 11-064-U	ab Associated	sampl	e(s): 12,14 C	QC Batch ID: W	VG426317-5	QC Sample: L	1011870-1	4 Client ID: GP-10-
Chloride		22.		22	mg/l	0		18
Nitrogen, Nitrate		0.045J		0.047J	mg/l	NC		15
General Chemistry - Westborough Lab Associat	ed sample(s):	12,14	QC Batch ID:	WG426358-4	QC Sample:	L1011792-02	Client ID:	DUP Sample
Chemical Oxygen Demand	40 K	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab Associat Client ID: GP-10-11-064-U	ed sample(s):	02,04,	06,08,10,12,14,	,16,18,20,28	QC Batch ID:	WG426635-2	QC Samp	ole: L1011870-14
Solids, Total Suspended		55000		48000	mg/l	14		32
General Chemistry - Westborough Lab Associat	ed sample(s):	12,14	QC Batch ID:	WG426677-3	QC Sample:	L1011910-04	Client ID:	DUP Sample
Alkalinity, Total	0.5	33.		31	mg CaCO	3/L 6	Q	4
General Chemistry - Westborough Lab Associat	ed sample(s):	12,14	QC Batch ID:	WG426784-4	QC Sample:	L1011870-14	Client ID:	GP-10-11-064-U
Sulfide	2.1.303/2	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab Associat Client ID: GP-10-20-019-U	ed sample(s):	02,04,	06,08,10,12,14,	,16,18,20,28	QC Batch ID:	WG427152-4	QC Samp	ble: L1011870-10
Dissolved Organic Carbon	- 34	1.6		1.6	mg/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1011870 09/14/10

Project Number: AC001

Project Name:

SHL TASK 0002

Report Date:

Parameter	Nativ	e Sample		Duplicate Sar	mple Units	RPE)	RPD Limits	
Anions by Ion Chromatography - Westborough Lab 11-064-U	Associated	sample(s): 12	2,14	QC Batch ID:	WG427657-5	QC Sample:	L1011870-14	Client ID: GP-10	1-
Sulfate		32.		33	mg/l	3		20	

Serial_No:09141009:18

Project Name: SHL TASK 0002

Lab Number: L1011870 Project Number: AC001 Report Date: 09/14/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on:

Cooler Information Custody Seal

Cooler

В Present/Intact C Present/Intact A Present/Intact Present/Intact D

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011870-01A	Plastic 500ml HNO3 preserved	С	<2	4.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011870-02A	Plastic 1000ml unpreserved	C	6	4.8	Y	Present/Intact	TSS-2540(7)
L1011870-02B	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-02C	Vial H2SO4 preserved split	A	N/A	48	Y	Present/Intact	DOC-5310(28)
L1011870-02D	Plastic 250ml HNO3 preserved	С	<2	4.8	Y	Present/Intact	DOD-AS-6020T(180).DOD-FE- 6020T(180)
L1011870-02X	Amber 250ml unpreserved	A	6	48	Y	Present/Intact	DOC-5310(28)
L1011870-03A	Plastic 500ml HNO3 preserved	С	<2	4.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011870-04A	Plastic 1000ml unpreserved	C	6	48	Y	Present/Intact	TSS-2540(7)
L1011870-04B	Vial H2SO4 preserved split	Α	N/A	48	Y	Present/Intact	DOC-5310(28)
L1011870-04C	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-04D	Plastic 250ml HNO3 preserved	C	<2	4.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011870-04X	Amber 250ml unpreserved	Α	6	4.8	Y	'Present/Intact	DOC-5310(28)
L1011870-05A	Plastic 500ml HNO3 preserved	c	<2	4.8	Υ	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011870-06A	Plastic 1000ml unpreserved	A	6	4.8	Y	Present/Intact	TSS-2540(7)
L1011870-06B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-06C	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-06D	Plastic 250ml HNO3 preserved	A	<2	4.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011870-06X	Amber 250ml unpreserved	C	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-07A	Plastic 500ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011870-07B	Plastic 500ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)

Project Number: AC001

Lab Number: L1011870 **Report Date**: 09/14/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011870-08A	Plastic 1000ml unpreserved	В	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-08B	Vial H2SO4 preserved split	A.	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-08C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-08D	Plastic 250ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011870-08E	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011870-08X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-09A	Plastic 250ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011870-10A	Plastic 1000ml unpreserved	В	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-10B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-10C	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-10D	Plastic 250ml HNO3 preserved	В	<2	2,3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011870-10X	Amber 250ml unpreserved	Α	6	4.8	Υ	Present/Intact	DOC-5310(28)
L1011870-11A	Plastic 250ml HNO3 preserved	Α	<2	4.8	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE- 6020S(180),DOD-MG- 6020S(180),DOD-SB-
				A	× •		6020S(180),DOD-CR- 6020S(180),DOD-MN- 6020S(180),DOD-MN- 6020S(180),DOD-CO- 6020S(180),DOD-AG- 6020S(180),DOD-NA- 6020S(180),DOD-NI- 6020S(180),DOD-NI- 6020S(180),DOD-PB- 6020S(180),DOD-AS- 6020S(180),DOD-CD- 6020S(180),DOD-CD- 6020S(180),DOD-CD- 6020S(180),DOD-CU- 6020S(180),DOD-ZN- 6020S(180),DOD-ZN- 6020S(180),DOD-AL- 6020S(180),DOD-K- 6020S(180),DOD-K- 6020S(180),DOD-SE- 6020S(180),DOD-SE- 6020S(180),DOD-HG-7470S(28)

Project Number: AC001

Lab Number: L1011870 Report Date: 09/14/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011870-12A	Plastic 500ml unpreserved	Α	6	4.8	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1011870-12B	Plastic 250ml unpreserved	C	6	4.8	Y	Present/Intact	NO2-4500NO2(2)
L1011870-12C	Plastic 250ml unpreserved	C	N/A	4.8	Y	Present/Intact	ALK-T-2320(14)
L1011870-12D	Plastic 500ml H2SO4 preserved	Α	<2	4.8	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011870-12E	Plastic 250ml Zn Acetate/NaOH pr	C	>12	4.8	Y	Present/Intact	SULFIDE-4500(7)
L1011870-12F	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	4.8	Y	Present/Intact	SULFIDE-4500(7)
L1011870-12G	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	4.8	Y	Present/Intact	SULFIDE-4500(7)
L1011870-12H	Plastic 1000ml unpreserved	C	6	4.8	Υ	Present/Intact	TSS-2540(7)
L1011870-12J	Vial H2SO4 preserved split	С	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-12K	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-12M	Plastic 250ml HNO3 preserved	A	<2	4,8	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011870-12X	Amber 250ml unpreserved	C	N/A	4.8	Υ	Present/Intact	DOC-5310(28)
L1011870-13A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	6020S(180), DOD-MG- 6020S(180), DOD-SB- 6020S(180), DOD-CR- 6020S(180), DOD-MN- 6020S(180), DOD-TL- 6020S(180), DOD-CO- 6020S(180), DOD-AG- 6020S(180), DOD-CA- 6020S(180), DOD-NA- 6020S(180), DOD-NA- 6020S(180), DOD-NI-
word					A. T.	* - *	6020S(180),DOD-PB- 6020S(180),DOD-V- 6020S(180),DOD-AS- 6020S(180),DOD-CD- 6020S(180),DOD-BE- 6020S(180),DOD-CU- 6020S(180),DOD-ZN- 6020S(180),DOD-AL- 6020S(180),DOD-K- 6020S(180),DOD-SE- 6020S(180),DOD-HG-7470S(28)

Project Number: AC001

Lab Number: L1011870 **Report Date:** 09/14/10

Conta	iner Info	rmation			Temp			
Conta	iner ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
	70-13B	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-AG-6020S(180),DOD-AG-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-NI-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-SE-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-HG-7470S(28)
L10118	370-14A	Plastic 500ml unpreserved	С	6	4.8	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L10118	370-14B	Plastic 250ml unpreserved	В	6	2.3	Y	Present/Intact	NO2-4500NO2(2)
L10118	370-14C	Plastic 250ml unpreserved	В	6	2,3	Y	Present/Intact	ALK-T-2320(14)
L10118	370-14D	Plastic 500ml H2SO4 preserved	C	<2	4.8	Y	Present/Intact	COD-410(28),NH3-4500(28)
L10118	370-14E	Plastic 250ml Zn Acetate/NaOH pr	D	>12	2	Y	Present/Intact	SULFIDE-4500(7)
L10118	370-14F	Plastic 250ml Zn Acetate/NaOH pr	D	>12	2	Y	Present/Inlact	SULFIDE-4500(7)
L10118	370-14G	Plastic 250ml Zn Acetate/NaOH pr	D	>12	2	Y	Present/Intact	SULFIDE-4500(7)
L10118	370-14H	Plastic 1000ml unpreserved	C	6	4.8	Y	Present/Intact	TSS-2540(7)
L10118	370-14J	Vial H2SO4 preserved split	C	6	4.8	Y	Present/Intact	DOC-5310(28)
L10118	370-14K	Vial H2SO4 preserved split	С	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L10118	370-14M	Plastic 250ml HNO3 preserved	С	<2	4.8	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI- 6020T(180),DOD-CA- 6020T(180),DOD-MN- 6020T(180),DOD-AI
		1 - 8 - 3				5. 3.15	3 15 25 2 5/2 -	6020T(180),DOD-AL- 6020T(180),DOD-AS- 6020T(180),DOD-CR- 6020T(180),DOD-MG- 6020T(180),DOD-MG- 6020T(180),DOD-PB- 6020T(180),DOD-PB- 6020T(180)

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Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
L1011870-14N	Plastic 500ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011870-14X	Amber 250ml unpreserved	C	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-15A	Plastic 500ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011870-16A	Plastic 1000ml unpreserved	В	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-16B	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-16C	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-16D	Plastic 250ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011870-16X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-17A	Plastic 500ml HNO3 preserved	В	<2	23	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011870-18A	Plastic 1000ml unpreserved	В	6	2.3	Y	Present/Intact	TSS-2540(7)
L1011870-18B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-18C	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-18D	Plastic 250ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180), DOD-FE- 6020T(180)
L1011870-18X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-19A	Plastic 500ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011870-20A	Plastic 1000ml unpreserved	В	6	2.3	Υ	Present/Intact	TSS-2540(7)
L1011870-20B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	DOC-5310(28)
L1011870-20C	Vial H2SO4 preserved split	Α -	N/A	4.8	Υ.	Present/Intact	DOC-5310(28)
L1011870-20D	Plastic 250ml HNO3 preserved	В	<2	2.3 :	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011870-20X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	DOC-5310(28)

Project Number: AC001

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Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011870-21A	Plastic 250ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-BA-6020S(180), DOD-FE-6020S(180), DOD-MG-6020S(180), DOD-MG-6020S(180), DOD-CR-6020S(180), DOD-CR-6020S(180), DOD-TL-6020S(180), DOD-TL-6020S(180), DOD-AG-6020S(180), DOD-AG-6020S(180), DOD-NA-6020S(180), DOD-NA-6020S(180), DOD-NA-6020S(180), DOD-PB-6020S(180), DOD-PB-6020S(180), DOD-CD-6020S(180), DOD-CD-6020S(180), DOD-CD-6020S(180), DOD-BE-6020S(180), DOD-BE-6020S(180), DOD-CU-6020S(180), DOD-SE-6020S(180), DOD-K-6020S(180), DOD-K-6020S(180), DOD-K-6020S(180), DOD-K-6020S(180), DOD-SE-6020S(180), DOD-SE-6020S(180), DOD-SE-6020S(180), DOD-HG-7470S(28)
L1011870-22A	Plastic 250ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-MG-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011870-23A	Plastic 250ml HNO3 preserved	В	<2	2.3	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011870-24A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-
- A	. 12		4		1 .		6020T(180),DOD-FE- 6020T(180),DOD-PB- 6020T(180)
L1011870-25A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-NI-6020S(180),DOD-NI-6020S(180),DOD-AS-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)

Project Number: AC001

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Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011870-26A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011870-27A	Plastic 250ml HNO3 preserved	D	<2	2	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011870-28A	Plastic 1000ml unpreserved	D	6	2	Y	Present/Intact	TSS-2540(7)
L1011870-28B	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	DOC-5310(28)
L1011870-28C	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	DOC-5310(28)
L1011870-28D	Plastic 250ml HNO3 preserved	D	<2	2	Υ	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011870-28X	Amber 250ml unpreserved	D	6	2	Y	Present/Intact	DOC-5310(28)

Project Name:

SHL TASK 0002

.

Lab Number:

L1011870

Project Number:

AC001

Report Date:

09/14/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

NC —Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not lenitable.

RED. Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD —Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to
assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD).
 Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the
absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank, For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E . Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers

ALPHA

Project Name: SHL TASK 0002 Lab Number: L1011870
Project Number: AC001 Report Date: 09/14/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011870

Report Date:

09/14/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

- 30 Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WPCF, 18th Edition, 1992.
- Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative,

Connecticut Department of Public Health Certificate/Lab ID: PH-0574, NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform - Colilert (SM9223 P/A), E. Coli. - Colilert (SM9223 P/A), HPC - Pour Plate (SM9215B), Fecal Coliform -MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenois), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform - MF mEndo (SM9222B), Total Coliform - MTF (SM9221B), HPC - Pour Plate (SM9215B), Fecal Coliform - MF m-FC (SM9222D), Fecal Coliform - A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barjum, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for; Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ní,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180 1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics) (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307, NELAP Accredited,

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0; SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev 7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065 Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B, Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666, Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited*. *Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7,3,3,2, EPA 7,3,4,2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited. Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2_D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

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WESTBORD, MA	MANSFIELD, MA	Project Inform	ation			Repor	t Info	rmatio	n - Data	Deliv	erables	Bi	illing Information	
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CHAIN	OF CUSTO	DY .	PAGE 2	OF 3	Date F	ec d.in	Lab:	8	JA		D		Al	PH	A Job#	101121)*
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ANALYTICAL REPORT

Lab Number:

L1011879

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/11/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011879-01	GP-10-19-029-U	DEVENS, MA	08/03/10 15:48
L1011879-02	GP-10-19-039-U	DEVENS, MA	08/03/10 16:30
L1011879-03	GP-10-19-046-U	DEVENS, MA	08/03/10 17:28
L1011879-04	GP-10-20-009-U	DEVENS, MA	08/04/10 08:50
L1011879-05	GP-10-20-019-U	DEVENS, MA	08/04/10 09:45
L1011879-06	GP-10-11-059-U	DEVENS, MA	08/03/10 16:25
L1011879-07	GP-10-11-064-U	DEVENS, MA	08/04/10 13:05
L1011879-08	GP-10-20-029-U	DEVENS, MA	08/04/10 10:37
L1011879-09	GP-10-20-039-U	DEVENS, MA	08/04/10 11:26
L1011879-10	GP-10-21-011-U	DEVENS, MA	08/04/10 14:32
L1011879-11	GP-10-21-021-U	DEVENS, MA	08/04/10 15:15

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011879

Report Date:

08/11/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Balch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report contains the Dissolved Inorganic Carbon results only. The results of all other requested analyses will be issued under separate cover.

Sample Receipt

The samples "GP-10-19-029-U" and "GP-10-19-039-U" were received at the laboratory requiring filtration for Dissolved Inorganic Carbon; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

Dissolved Inorganic Carbon

L1011879-01, -02, -03, -05 through -09 and -11 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

Case Narrative (continued)

L1011879-04 and -10 have elevated detection limits due to the dilutions required by the sample matrices. WG426759: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD.

The Filter Blank result is reported from an analysis where the CCB after the sequence failed high, but reanalysis could not be performed due to limited sample volume.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Michelle UK. Uning Michelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 08/11/10

INORGANICS & MISCELLANEOUS



Date Collected:

Project Name: SHL TASK 0002

TASK 0002 Lab Number:

Project Number: AC001 Report Date: 08/11/10

SAMPLE RESULTS

Lab ID: L1011879-01 Client ID: GP-10-19-029-U

Client ID: GP-10-19-029-U Date Received: Sample Location: DEVENS, MA Field Prep:

Matrix: Water

08/04/10

L1011879

Not Specified

08/03/10 15:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	62		mg/l	20	-	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-02

Client ID:

Sample Location:

GP-10-19-039-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 16:30

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	71		mg/l	20	**	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-03

Client ID:

Sample Location:

GP-10-19-046-U DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 17:28

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	85		mg/l	20	=	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011879

Project Number: AC001

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-04

Client ID: Sample Location:

GP-10-20-009-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 08:50

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifler	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	9.8		ma/l	8.0		8	08/04/10 23:00	08/10/10 06:59	30.5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-05 GP-10-20-019-U Date Collected:

08/04/10 09:45

Client ID: Sample Location:

DEVENS, MA

Date Received: Field Prep: 08/04/10 Not Specified

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	37		mg/l	20	**	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID: Client ID: L1011879-06 GP-10-11-059-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/03/10 16:25

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	37		mg/l	20	**	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011879

Project Number: AC001

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-07

Client ID:

GP-10-11-064-U

Sample Location:

DEVENS, MA

Date Collected: Date Received: 08/04/10 13:05

Field Prep:

08/04/10 Not Specified

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	44		mg/l	20	()	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-08

Client ID: Sample Location: GP-10-20-029-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 10:37

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	61		mg/l	20	-	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Serial_No:08111013:53

Project Name: SHL TASK 0002

Lab Number:

L1011879

Project Number: AC001

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-09

Client ID:

GP-10-20-039-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 11:26

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	82		mg/l	20	44	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Serial_No:08111013:53

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-10 GP-10-21-011-U

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 14:32

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	9.1		mg/l	8.0	-	8	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Serial No:08111013:53

Project Name: SHL TASK 0002

Lab Number:

L1011879

Project Number: AC001

Report Date:

08/11/10

SAMPLE RESULTS

Lab ID:

L1011879-11

Client ID: Sample Location: GP-10-21-021-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:15

Date Received:

08/04/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	27		mg/l	20	**	20	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Serial_No:08111013:53

Project Name:

SHL TASK 0002

Lab Number:

L1011879

08/11/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sa	mple(s): 01-11 Bato	h: WG426	6759-1						
Dissolved Inorganic Carbon	ND	mg/l	1.0	-	1	08/04/10 23:00	08/10/10 06:59	30,5310C(M)	DW

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

	LCS		LCSD		%Recovery				
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	RPD Limits	

Associated sample(s): 01-11 Batch: WG426759-2

Dissolved Inorganic Carbon

98

Lab Duplicate Analysis Batch Quality Control

SHL TASK 0002 Batch Quality

Lab Number:

L1011879

Report Date:

08/11/10

Parameter	Nat	ive Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Associated sample(s): 01-11	QC Batch ID: WG426759-3	QC Sample: L1	011879-01 Client ID: 0	GP-10-19-029-U			
Dissolved Inorganic Carbon	5	62	53	mg/l	16		

Project Name:

Project Number:

AC001

Serial_No:08111013:53

Project Name: SHL TASK 0002

Lab Number: L1011879 Project Number: AC001 Report Date: 08/11/10

Sample Receipt and Container Information

YES Were project specific reporting limits specified?

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B Present/Intact C Present/Intact Present/Intact A D Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011879-01A	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-01B	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-01X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Inlact	SPECWC()
L1011879-02A	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-02B	Vial H2SO4 preserved split	A	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-02X	Amber 250ml unpreserved	A	6	4.8	Y	Present/Intact	SPECWC()
L1011879-03A	Vial H2SO4 preserved split	C	N/A	48	Y	Present/Intact	SPECWC()
L1011879-03B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-03X	Amber 250ml unpreserved	С	6	4.8	Y	Present/Intact	SPECWC()
L1011879-04A	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-04B	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-04X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Intact	SPECWC()
L1011879-05A	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-05B	Vial H2SO4 preserved split	Α.	N/A	4.8	· Y	Present/Intact	SPECWC()
L1011879-05X	Amber 250ml unpreserved	Α -	6	4.8	Y	Present/Intact	SPECWC()
L1011879-06A	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-06B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-06X	Amber 250ml unpreserved	Č	6	4.8	Y	Present/Intact	SPECWC()
L1011879-07A	Vial H2SO4 preserved split	C	N/A	48	Y	Present/Intact	SPECWC()
L1011879-07B	Vial H2SO4 preserved split	C	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-07X	Amber 250ml unpreserved	C	6	4.8	Y	Present/Intact	SPECWC()
L1011879-08A	Vial H2SO4 preserved split	A	N/A	4,8	Y	Present/Intact	SPECWC()
L1011879-08B	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()

Project Name: SHL TASK 0002 Lab Number: L1011879

Project Number: AC001 Report Date: 08/11/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011879-08X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Intact	SPECWC()
L1011879-09A	Vial H2SO4 preserved split	A	N/A	4.B	Y	Present/Intact	SPECWC()
L1011879-09B	Vial H2SO4 preserved split	Α	N/A	4.8	Υ	Present/Intact	SPECWC()
L1011879-09X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Intact	SPECWC()
L1011879-10A	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-10B	Vial H2SO4 preserved split	Α	N/A	4.8	Y	Present/Intact	SPECWC()
L1011879-10X	Amber 250ml unpreserved	Α	6	4.8	Y	Present/Intact	SPECWC()
L1011879-11A	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	SPECWC()
L1011879-11B	Vial H2SO4 preserved split	D	N/A	2	Y	Present/Intact	SPECWC()
L1011879-11X	Amber 250ml unpreserved	D	6	2	Y	Present/Intact	SPECWC()

Project Name:

SHL TASK 0002

Lab Number:

L1011879

Project Number: AC001 Report Date:

08/11/10

GLOSSARY

Acronyms

EPA Environmental Protection Agency

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDI includes any adjustments from dilutions, concentrations or moisture content, where applicable,

MS -Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD Matrix Spike Sample Duplicate: Refer to MS

NA Not Applicable.

NC -Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI

RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum

Data Qualifiers

- · Spectra identified as "Aldol Condensation Product".
- -The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable D concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- -The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of H sample collection.
- 1 The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix O spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- Analytical results are from sample re-analysis.

Report Format: Data Usability Report

Serial_No:08111013:53

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011879

 Project Number:
 AC001
 Report Date:
 08/11/10

Data Qualifiers

RE Analytical results are from sample re-extraction.

J : Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011879

Report Date:

08/11/10

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ALPHA

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574, NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform - Colilert (SM9223 P/A), E. Coli. - Colilert (SM9223 P/A), HPC - Pour Plate (SM9215B), Fecal Coliform -

MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenois), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform - MF mEndo (SM9222B), Total Coliform - MTF (SM9221B), HPC - Pour Plate (SM9215B), Fecal Coliform - MF m-FC (SM9222D), Fecal Coliform - A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated

Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0 Organic

Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA.

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba, Be, Ca, Cd, Cr, Cu, Na, Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353 2 for Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihatomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N. SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-06-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, 2540C, 2320B, 245.2.

SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev 7.)

Solid & Chemical Materials (<u>Inorganic Parameters</u>: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065 <u>Organic Parameters</u>: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ QQA-QAM-025 Rev 7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B.

Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B, Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID: 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited*. *Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited. Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2 D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. EPA 8330A: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. EPA 8270C: Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). EPA 625: 4-Chloroaniline. EPA 350.1 for Ammonia in a Soil matrix.

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WESTBORD, MA MANSFIELD, MA	Project Information	0 - 42			Re	port	Infor	matic	on - D	ata D	cliver	bles	Bil	ling Information	
TEL: 508-898-9220 TEL: 508-822-9300 FAX: 508-898-9193 FAX: 508-822-3288	Project Name: 5H2	4		- 4.	1	FAX				AL &	200		os.	ame as Client info PO #:	
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Fax: 508 - 339 3248	Standard DR	JSH (only confi	irmed if pri-irp)	proved!)	238518	es les	2410	- /	Te.CI	TCF (7	able CC	/	/ / /	
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- Interest



ANALYTICAL REPORT

Lab Number:

L1011964

Client:

Sovereign Consulting

905B South Main Street Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/30/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com Project Name: SHL

SHL TASK 0002

Project Number: AC

AC001

Lab Number:

L1011964

Report Date:

08/30/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011964-01	GP-10-21-031-F	DEVENS, MA	08/04/10 15:57
L1011964-02	GP-10-21-031-U	DEVENS, MA	08/04/10 15:57
L1011964-03	GP-10-21-041-F	DEVENS, MA	08/04/10 16:35
L1011964-04	GP-10-21-041-U	DEVENS, MA	08/04/10 16:35
L1011964-05	GP-10-21-051-F	DEVENS, MA	08/04/10 17:30
L1011964-06	GP-10-21-051-U	DEVENS, MA	08/04/10 17:30
L1011964-07	GP-10-21-060-F	DEVENS, MA	08/04/10 18:26
L1011964-08	GP-10-21-060-U	DEVENS, MA	08/04/10 18:26
L1011964-09	GP-10-23-017-F	DEVENS, MA	08/05/10 10:28
L1011964-10	GP-10-23-017-U	DEVENS, MA	08/05/10 10:28
L1011964-11	GP-10-23-027-F	DEVENS, MA	08/05/10 11:17
L1011964-12	GP-10-23-027-U	DEVENS, MA	08/05/10 11:17
L1011964-13	GP-10-23-037-F	DEVENS, MA	08/05/10 12:02
L1011964-14	GP-10-23-037-U	DEVENS, MA	08/05/10 12:02
L1011964-15	GP-10-23-047-F	DEVENS, MA	08/05/10 13:46
L1011964-16	GP-10-23-047-U	DEVENS, MA	08/05/10 13:46
L1011964-17	GP-10-12-044-F	DEVENS, MA	08/05/10 12:00
L1011964-18	GP-10-12-044-U	DEVENS, MA	 08/05/10 12:00
L1011964-19	GP-10-12-054-F	DEVENS, MA	 08/05/10 14:15
L1011964-20	DUP-080510-F	DEVENS, MA	08/05/10 10:28
L1011964-21	DUP-080510-U	DEVENS, MA	08/05/10 10:28
L1011964-22	DUP2-080510-F	DEVENS, MA	08/05/10 14:36
L1011964-23	DUP2-080510-U	DEVENS, MA	08/05/10 14:36
L1011964-24	RB-080510-U	DEVENS, MA	08/05/10 12:15
L1011964-25	RB2-080510-U	DEVENS, MA	08/05/10 15:20
L1011964-26	GP-10-23-057-F	DEVENS, MA	08/05/10 14:36
L1011964-27	GP-10-23-057-U	DEVENS, MA	08/05/10 14:36

Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1011964

Report Date:

08/30/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.1, where applicable.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The Dissolved Inorganic Carbon results will be issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Samples "GP-10-21-031-U", "GP-10-21-041-U", "GP-10-21-051-U" and "GP-10-21-060-U" were received at the laboratory requiring filtration for Dissolved Organic Carbon analysis; however, the samples were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

Case Narrative (continued)

preserved appropriately.

Dissolved Metals

L1011964-01, -03, -05, -07, -11, -15 and -26 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes.

L1011964-17, -19 and -22 have elevated detection limits for all analytes, except Mercury, due to the dilutions required by the high concentrations of target analytes.

The WG426598-3/-4 MS/MSD recoveries for Sodium (40%/50%), performed on L1011964-11, are invalid because the sample concentration is greater than four times the spike amount added.

The WG426598-5 Post Digestion Spike recovery for Sodium was outside the DoD acceptance criteria of 75-125%; therefore, the parent sample (L1011964-11) is qualified with a "J" for this element.

The WG428707-4 MS recovery, performed on L1011964-19, is above the acceptance criteria for Mercury (132%). A post digestion spike was performed with an acceptable recovery of 119%.

Total Metals

L1011964-02, -04, -06, -08, -12, -16, -18, -23 and -27 have elevated detection limits for all analytes due to the dilutions required by the high concentrations of target analytes.

The WG426597-3/-4 MS/MSD recoveries for Sodium (0%/60%), performed on L1011964-12, are invalid because the sample concentration is greater than four times the spike amount added.

Nitrogen, Nitrate

L1011964-17 and -19 were analyzed with the method required holding time exceeded due to instrument failure.

Solids, Total Suspended

L1011964-18 has an elevated detection limit due to the dilution required by the elevated concentration present in the sample.

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001 Report Date:

08/30/10

Case Narrative (continued)

Dissolved Organic Carbon

WG427571: A filter blank was not provided; therefore, a method blank is reported for the batch.

Sulfide

The WG426785-3 MS recovery (67%), performed on L1011964-19, is below the acceptance criteria. This has been attributed to matrix interference.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative

Michelle M. Morris

Date: 08/30/10

METALS

Project Name:SHL TASK 0002Lab Number:L1011964Project Number:AC001Report Date:08/30/10

SAMPLE RESULTS

 Lab ID:
 L1011964-01
 Date Collected:
 08/04/10 15:57

 Client ID:
 GP-10-21-031-F
 Date Received:
 08/05/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 See Narrative

 Matrix:
 Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	3.64		ug/l	2.50	0.565	5	08/08/10 10:1	5 08/12/10 18:20	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1840		ug/l	250	42.0	5	08/08/10 10:1	5 08/12/10 18:20	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

08/30/1

SAMPLE RESULTS

Lab ID: Client ID:

Sample Location:

L1011964-02 GP-10-21-031-U

Matrix:

DEVENS, MA

Water

Date Collected:

08/04/10 15:57

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	stborough L	.ab									
Arsenic, Total	5.05		ug/l	2.50	0.565	5	08/08/10 10:1	5 08/12/10 20:40	EPA 3005A	1,6020A	вм
Iron, Total	3100		ug/l	250	42.0	5	08/08/10 10:1	5 08/12/10 20:40	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-03

Sample Location:

GP-10-21-041-F DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 16:35

Date Received:

08/05/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	349		ug/l	5.00	1.13	10	08/08/10 10:1	5 08/12/10 18:26	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	43700		ug/l	500	84.1	10	08/08/10 10:1	5 08/12/10 18:26	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

Lab ID:

SAMPLE RESULTS

Date Collected:

08/04/10 16:35

Client ID: Sample Location: L1011964-04 GP-10-21-041-U DEVENS, MA

Date Received:

08/05/10

Matrix:

Water

Not Specified

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	322		ug/l	5.00	1.13	10	08/08/10 10:1	5 08/12/10 20:46	EPA 3005A	1,6020A	ВМ
Iron, Total	42500		ug/I	500	84.1	10	08/08/10 10:1	5 08/12/10 20:46	EPA 3005A	1,6020A	вм

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011964

 Project Number:
 AC001
 Report Date:
 08/30/10

SAMPLE RESULTS

 Lab ID:
 L1011964-05
 Date Collected:
 08/04/10 17:30

 Client ID:
 GP-10-21-051-F
 Date Received:
 08/05/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 See Narrative

 Matrix:
 Water

Dilution Prep Analytical Date Date Method Factor Prepared Analyzed Method Qualifier Parameter Result Units RL MDL Analyst Dissolved Metals - Westborough Lab Arsenic, Dissolved 12.3 5.00 10 08/08/10 10:15 08/12/10 18:32 EPA 3005A 1,6020A BM ug/l 1.13 Iron, Dissolved 6320 ug/l 500 84.1 10 08/08/10 10:15 08/12/10 18:32 EPA 3005A 1,6020A BM

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

Lab ID:

SAMPLE RESULTS

L1011964-06

Client ID:

GP-10-21-051-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

Date Received:

08/04/10 17:30

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough l	_ab									
Arsenic, Total	18.7		ug/l	5.00	1.13	10	08/08/10 10:1	5 08/12/10 20:52	EPA 3005A	1,6020A	вм
Iron, Total	11900		ug/l	500	84.1	10	08/08/10 10:1:	5 08/12/10 20:52	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-07

Client ID:

GP-10-21-060-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/04/10 18:26

Date Received:

08/05/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	146		ug/l	5.00	1.13	10	08/08/10 10:1	5 08/12/10 18:38	EPA 3005A	1,6020A	вм
Iron, Dissolved	15300		ug/l	500	84.1	10	08/08/10 10:1:	5 08/12/10 18:38	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-08 GP-10-21-060-U

Sample Location: DEVENS, MA

Matrix:

DEVENS,

Water

Date Collected:

08/04/10 18:26

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	145		ug/l	5.00	1.13	10	08/08/10 10:1	5 08/12/10 20:58	EPA 3005A	1,6020A	вм
Iron, Total	21200		ug/l	500	84.1	10	08/08/10 10:1	5 08/12/10 20:58	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-09 GP-10-23-017-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 10:28

Date Received:

08/05/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	6.6	J	ug/l	10.0	1.91	1	08/08/10 10:15	5 08/12/10 18:45	EPA 3005A	1,6020A	ВМ
Arsenic, Dissolved	0.38	J	ug/l	0.500	0.113	7	08/08/10 10:15	5 08/12/10 18:45	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	9680		ug/l	100	12.6	1	08/08/10 10:15	5 08/12/10 18:45	EPA 3005A	1,6020A	вм
Chromium, Dissolved	0.2	J	ug/l	0.500	0.186	1	08/08/10 10:15	5 08/12/10 18:45	EPA 3005A	1,6020A	вм
Iron, Dissolved	1040		ug/l	50.0	8.41	1	08/08/10 10:15	5 08/12/10 18:45	EPA 3005A	1,6020A	вм
Lead, Dissolved	0.06	J	ug/l	0.500	0.050	1	08/08/10 10:1	5 08/12/10 18:45	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	1450		ug/l	100	4 10	4	08/08/10 10:1	5 08/12/10 18:45	EPA 3005A	1,6020A	BM
Manganese, Dissolved	21.1		ug/l	1.00	0.136	3	08/08/10 10:19	5 08/12/10 18:45	EPA 3005A	1,6020A	вм
Nickel, Dissolved	1.83		ug/l	0.500	0.180	1	08/08/10 10:1	5 08/12/10 18:45	EPA 3005A	1,6020A	вм
Potassium, Dissolved	2130		ug/l	100	18.2	1	08/08/10 10:1	5 08/12/10 18:45	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	65000		ug/l	100	18.2	4	08/08/10 10:1	5 08/12/10 18:45	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

AC001

Lab Number:

L1011964

Project Number:

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-10 GP-10-23-017-U

Client ID: Sample Location: DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 10:28

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough L	ab									
Aluminum, Total	59.8		ug/l	10.0	1.91	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Arsenic, Total	0.520		ug/I	0.500	0.113	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Calcium, Total	9860		ug/l	100	12.6	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Chromium, Total	0.33	J	ug/l	0.500	0.186	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Iron, Total	1110		ug/I	50.0	8.41	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Lead, Total	0.12	J	ug/l	0.500	0.050	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Magnesium, Total	1450		ug/l	100	4.10	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Manganese, Total	23.0		ug/l	1.00	0.136	1	08/08/10 10:15	5 08/12/10 21:04	EPA 3005A	1,6020A	вм
Nickel, Total	1.94		ug/l	0.500	0,180	1	08/08/10 10:1	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Potassium, Total	2260		ug/l	100	18.2	1	08/08/10 10:1	5 08/12/10 21:04	EPA 3005A	1,6020A	ВМ
Sodium, Total	67100		ug/l	100	18.2	1	08/08/10 10:1:	5 08/12/10 21:04	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-11

Sample Location:

GP-10-23-027-F DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 11:17

Date Received:

08/05/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	5.22	J	ug/l	20.0	3.82	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	ВМ
Arsenic, Dissolved	0.6	J	ug/l	1.00	0.226	2	08/08/10 10:15	08/12/10 19:09	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	16300		ug/l	200	25.3	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	ВМ
Chromium, Dissolved	ND		ug/l	1.00	0.372	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	вм
Iron, Dissolved	701		ug/l	100	16.8	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/l	1.00	0.100	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	1640		ug/l	200	8.20	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	172		ug/l	2.00	0.272	2	08/08/10 10:15	5 08/12/10 19.09	EPA 3005A	1,6020A	ВМ
Nickel, Dissolved	2.13		ug/l	1.00	0.360	2	08/08/10 10:18	5 08/12/10 19:09	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	4640		ug/l	200	36.3	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	217000	J	ug/l	200	36.4	2	08/08/10 10:15	5 08/12/10 19:09	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

Sample Location:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-12 GP-10-23-027-U

DEVENS, MA

Matrix:

Sodium, Total

Water

218000

ug/l

200

36.4

Date Collected:

08/05/10 11:17

Date Received:

08/08/10 10:15 08/12/10 21:17 EPA 3005A

08/05/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough l	_ab									
Aluminum, Total	735		ug/l	20.0	3.82	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	ВМ
Arsenic, Total	2.86		ug/l	1.00	0.226	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	вм
Calcium, Total	16200		ug/l	200	25.3	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	вм
Chromium, Total	5.24		ug/l	1.00	0.372	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	вм
Iron, Total	2170		ug/I	100	16.8	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	ВМ
Lead, Total	1.62		ug/l	1.00	0.100	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	вм
Magnesium, Total	1760		ug/l	200	8.20	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	ВМ
Manganese, Total	189		ug/l	2.00	0.272	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	ВМ
Nickel, Total	3.88		ug/l	1.00	0.360	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	BM
Potassium, Total	4670		ug/I	200	36.3	2	08/08/10 10:1	5 08/12/10 21:17	EPA 3005A	1,6020A	ВМ

1,6020A

BM

Project Name: SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID:

Matrix:

L1011964-13

Sample Location:

GP-10-23-037-F DEVENS, MA

Water

Date Collected:

08/05/10 12:02 08/05/10

Date Received: Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals -	Westboro	ugh Lab									
Arsenic, Dissolved	0.28	J	ug/l	0.500	0.113	1	08/08/10 10:1	5 08/12/10 19:33	EPA 3005A	1,6020A	ВМ
Iron, Dissolved	1890		ug/l	50.0	8.41	1	08/08/10 10:1	5 08/12/10 19:33	EPA 3005A	1,6020A	вм

Project Name: SHL TASK 0002

Lab Number:

L1011964

Project Number:

Sample Location:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-14

Client ID:

GP-10-23-037-U DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 12:02

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	estborough L	_ab									
Arsenic, Total	5.38		ug/l	0.500	0.113	1	08/08/10 10:1	5 08/12/10 21:53	EPA 3005A	1,6020A	ВМ
Iron, Total	5400		ug/l	50.0	8.41 ,	1	08/08/10 10:1	5 08/12/10 21:53	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-15

Client ID: Sample Location: GP-10-23-047-F DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 13:46

Date Received:

08/05/10

Field Prep:

See Narrative

Prep Method Dilution Date Date Analytical Method Factor Prepared Analyzed Parameter Result Qualifier Units RL MDL Analyst Dissolved Metals - Westborough Lab Arsenic, Dissolved 666 08/08/10 10:15 08/12/10 19:39 EPA 3005A 1,6020A ВМ ug/l 5.00 1.13 10 Iron, Dissolved 78400 08/08/10 10:15 08/12/10 19:39 EPA 3005A 1,6020A ug/I 500 84.1 10 BM

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

Sample Location:

AC001

Report Date:

08/30/10

Lab ID:

L1011964-16

Client ID:

GP-10-23-047-U DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 13:46

Date Received:

08/05/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	orough L	ab									
Arsenic, Total	610		ug/l	5.00	1.13	10	08/08/10 10:15	5 08/12/10 22:00	EPA 3005A	1,6020A	вм
Iron, Total	78500		ug/l	500	84.1	10	08/08/10 10:15	5 08/12/10 22:00	EPA 3005A	1,6020A	ВМ

SAMPLE RESULTS

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-17 GP-10-12-044-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 12:00

Date Received:

Field Prep:

08/05/10 See Narrative

MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Ana
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Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	ND		ug/l	100	19.1	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Antimony, Dissolved	ND		ug/l	5.00	1.20	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	3880		ug/l	5.00	1.13	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Barium, Dissolved	36.1		ug/l	5.00	0.950	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Beryllium, Dissolved	ND		ug/l	5.00	0.590	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Cadmium, Dissolved	ND		ug/l	5.00	0.590	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	24500		ug/l	1000	126.	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Chromium, Dissolved	ND		ug/l	5.00	1.86	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	ВМ
Cobalt, Dissolved	10.9		ug/i	5.00	0.530	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	ВМ
Copper, Dissolved	ND		ug/l	5.00	1.18	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Iron, Dissolved	83700		ug/l	500	84.1	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/l	5.00	0.500	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	2080		ug/l	1000	41.0	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Manganese, Dissolved	5860		ug/I	10.0	1.36	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Mercury, Dissolved	0.02717	J	ug/l	0.2000	0.0120	1	08/20/10 18:30	0 08/23/10 14:12	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	20.3		ug/I	5.00	1.80	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	4670		ug/l	1000	182	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Selenium, Dissolved	ND		ug/l	10.0	4.06	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	ВМ
Silver, Dissolved	ND		ug/l	5.00	0.850	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	3650		ug/l	1000	182.	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Thallium, Dissolved	ND	12 31	ug/l	5.00	0.310	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм
Vanadium, Dissolved	ND		ug/l	5.00	0.770	10	08/08/10 10:15	08/12/10 19:46	EPA 3005A	1,6020A	BM
Zinc, Dissolved	44.4	J	ug/l	50.0	16.2	10	08/08/10 10:15	5 08/12/10 19:46	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Project Number: AC001 Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-18

Client ID: Sample Location: GP-10-12-044-U DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 12:00

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough La	ab									
Aluminum, Total	20200		ug/l	100	19.1	10	08/08/10 10:1:	5 08/12/10 22:06	EPA 3005A	1,6020A	вм
Arsenic, Total	4320		ug/I	5.00	1.13	10	08/08/10 10:13	5 08/12/10 22:06	EPA 3005A	1,6020A	ВМ
Calcium, Total	33600		ug/l	1000	126	10	08/08/10 10:1	5 08/12/10 22:06	EPA 3005A	1,6020A	вм
Chromium, Total	66.9		ug/l	5.00	1.86	10	08/08/10 10:19	5 08/12/10 22:06	EPA 3005A	1,6020A	вм
Iron, Total	122000		ug/I	500	84.1	10	08/08/10 10:1	5 08/12/10 22:06	EPA 3005A	1,6020A	ВМ
Lead, Total	496		ug/I	5.00	0.500	10	08/08/10 10:1	5 08/12/10 22:06	EPA 3005A	1,6020A	вм
Magnesium, Total	5900		ug/l	1000	41.0	10	08/08/10 10:1	5 08/12/10 22:06	EPA 3005A	1,6020A	вм
Manganese, Total	7180		ug/I	10.0	1.36	10	08/08/10 10:1:	5 08/12/10 22:06	EPA 3005A	1,6020A	вм
Nickel, Total	56.1		ug/l	5.00	1.80	10	08/08/10 10:1:	5 08/12/10 22:06	EPA 3005A	1,6020A	ВМ
Potassium, Total	7630		ug/l	1000	182.	10	08/08/10 10:1	5 08/12/10 22:06	EPA 3005A	1,6020A	ВМ
Sodium, Total	5160		ug/l	1000	182_	10	08/08/10 10:1	5 08/12/10 22:06	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: L1011964-19 Client ID: GP-10-12-054-F

Sample Location: Matrix:

DEVENS, MA

Water

Date Collected: Date Received:

08/05/10 14:15 08/05/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	ND		ug/l	100	19.1	10	08/08/10 10:1:	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Antimony, Dissolved	ND		ug/l	5.00	1,20	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	2850		ug/l	5.00	1.13	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Barium, Dissolved	29.9		ug/i	5 00	0.950	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Beryllium, Dissalved	ND		ug/l	5.00	0.590	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Cadmium, Dissolved	ND		ug/l	5.00	0,590	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Calcium, Dissolved	39500		ug/l	1000	126.	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Chromium, Dissolved	ND		ug/l	5.00	1.86	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Cobalt, Dissolved	4.18	J	ug/l	5.00	0.530	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Copper, Dissolved	ND		ug/l	5.00	1.18	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Iron, Dissolved	74800		ug/l	500	84.1	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/I	5.00	0.500	10	08/08/10 10:1	5 08/12/10 19.52	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	2790		ug/l	1000	41.0	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Manganese, Dissolved	5200		ug/l	10.0	1.36	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Mercury, Dissolved	0.03853	J	ug/l	0.2000	0.0120	1	08/20/10 18:3	0 08/23/10 14:14	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	10.6		ug/l	5.00	1.80	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	7340		ug/l	1000	182.	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Selenium, Dissolved	ND		ug/l	10.0	4.06	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Silver, Dissolved	ND		ug/l	5.00	0.850	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	8450		ug/l	1000	182	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	вм
Thallium, Dissolved	ND		ug/l	- 5:00	0.310	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND		ug/l	5.00	0.770	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ
Zinc, Dissolved	38.2	Ĵ	ug/l	50.0	16.2	10	08/08/10 10:1	5 08/12/10 19:52	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-20

Date Collected:

08/05/10 10:28

Client ID: Sample Location: DUP-080510-F DEVENS, MA

Matrix:

Water

Date Received: 08/05/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	5.6	J	ug/l	10.0	1,91	1	08/08/10 10:13	5 08/12/10 19:58	EPA 3005A	1,6020A	ВМ
Antimony, Dissolved	0.15	J	ug/l	0.500	0.120	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	1.40		ug/l	0 500	0.113	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Barium, Dissolved	13,5		ug/l	0.500	0.095	1	08/08/10 10:18	5 08/12/10 19:58	EPA 3005A	1,6020A	ВМ
Beryllium, Dissolved	ND		ug/I	0.500	0.059	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Calcium, Dissolved	10300		ug/l	100	12.6	1	08/08/10 10:1	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Chromium, Dissolved	0.22	J	ug/l	0.500	0.186	ð	08/08/10 10:1	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Cobalt, Dissolved	0.37	Ĩ	ug/l	0.500	0.053	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Copper, Dissolved	0.49	3	ug/I	0.500	0.118	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Iron, Dissolved	1070		ug/I	50.0	8.41	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Magnesium Dissolved	1530		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	вм
Manganese, Dissolved	21.8		ug/l	1.00	0.136	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1.6020A	ВМ
Mercury, Dissolved	0.1147	J	ug/l	0.2000	0.0120	- 1	08/20/10 18:30	08/23/10 14:20	EPA 7470A	1,7470A	EZ
Nickel, Dissolved	1.87		ug/l	0.500	0.180	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	2300		ug/l	100	18.2	1	08/08/10 10:18	08/12/10 19:58	EPA 3005A	1,6020A	вм
Selenium, Dissolved	ND		ug/l	1.00	0.406	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		ug/I	0.500	0.085	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Sodium, Dissolved	69100	- 20	ug/l	100	18,2	1	08/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм
Thallium, Dissolved	ND .	1.6 - 3	.ug/l	0.500	0.031	1	08/08/10 10:15	08/12/10 19:58	EPA 3005A	1,6020A	вм
Vanadium, Dissolved	0.12	Ĵ	ug/l	0.500	0.077	1	08/08/10 10:18	08/12/10 19:58	EPA 3005A	1,6020A	вм
Zinc, Dissolved	1,95	Ĵ	ug/l	5.00	1.62	1	0B/08/10 10:15	5 08/12/10 19:58	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-21 DUP-080510-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 10:28

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	tborough L	_ab									
Aluminum, Total	49.2		ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	вм
Arsenic, Total	1.45		ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	вм
Calcium, Total	10500		ug/l	100	12.6	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	ВМ
Chromium, Total	0.46	J	ug/l	0,500	0.186	1	08/08/10 10:15	08/12/10 22:12	EPA 3005A	1,6020A	вм
Iron, Total	1180		ug/l	50.0	8.41	1	08/08/10 10:15	5 08/12/10 22:12	EPA 3005A	1,6020A	ВМ
Lead, Total	0.11	J	ug/I	0.500	0.050	1	08/08/10 10:15	5 08/12/10 22:12	EPA 3005A	1,6020A	ВМ
Magnesium, Total	1540		ug/I	100	4.10	1	08/08/10 10:15	5 08/12/10 22:12	EPA 3005A	1,6020A	ВМ
Manganese, Total	23.9		ug/l	1.00	0.136	1	08/08/10 10:15	5 08/12/10 22:12	EPA 3005A	1,6020A	ВМ
Nickel, Total	2.04		ug/l	0,500	0.180	1	08/08/10 10:15	5 08/12/10 22:12	EPA 3005A	1,6020A	ВМ
Potassium, Total	2330		ug/l	100	18.2	1	08/08/10 10:15	5 08/12/10 22:12	EPA 3005A	1,6020A	вм
Sodium, Total	71000		ug/l	100	18.2	1	08/08/10 10:15	5 08/12/10 22:12	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-22

Date Collected:

08/05/10 14:36

Sample Location:

DUP2-080510-F DEVENS, MA

Date Received: 08/05/10
Field Prep: See Narrative

Matrix:

Water

Analytical Dilution Date Date Prep Method Factor Prepared Analyzed Method Qualifier MDL Parameter Result Units RL Analyst Dissolved Metals - Westborough Lab 1,6020A ND 50.0 9.56 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM Aluminum, Dissolved ug/l 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A ND 0.600 5 BM Antimony, Dissolved 2.50 ug/I 1,6020A 2.50 0.565 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM Arsenic, Dissolved 1100 ug/l 2.50 1,6020A Barium, Dissolved 43.8 ug/l 0.475 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A ВМ ND 2.50 0.295 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM Beryllium, Dissolved ug/l 1,6020A ND 0.295 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM Cadmium, Dissolved 2.50 ug/l 86500 500 63.3 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM Calcium, Dissolved ug/l 1,6020A Chromium, Dissolved 0.95 J ug/I 2.50 0.930 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM 27.5 2.50 0.265 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM Cobalt, Dissolved ug/l 1,6020A ND 2.50 0.590 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM Copper, Dissolved ug/l 1,6020A 70000 250 420 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM Iron, Dissolved ug/l 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM Lead, Dissolved ND ug/l 2.50 0.250 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A Magnesium, Dissolved 15600 ug/I 500 20.5 5 ВМ Manganese. Dissolved 3820 ug/I 5 00 0 680 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1.6020A ВМ 0.2000 08/20/10 18:30 08/23/10 14:21 EPA 7470A 1,7470A EZ Mercury, Dissolved 0.07912 ug/l 0.0120 1 Nickel, Dissolved 25 0 ug/l 2.50 0.900 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM 500 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM Potassium, Dissolved 11500 ug/l 90.8 1,6020A Selenium, Dissolved ND ug/l 5.00 2.03 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM Silver, Dissolved ND 2.50 0.425 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM ug/l 37200 500 91.0 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM Sodium, Dissolved ug/l 2.50 0.155 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A 1,6020A BM Thallium, Dissolved ND ug/l 1,6020A ND 2.50 0.385 5 08/08/10 10:15 08/12/10 20:04 EPA 3005A BM Vanadium, Dissolved ug/I

1,6020A

BM

Zinc, Dissolved

32.6

ug/I

25.0

8.12

5

08/08/10 10:15 08/12/10 20:04 EPA 3005A

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-23 DUP2-080510-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 14:36

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough L	_ab									
Aluminum, Total	4180		ug/l	50.0	9.56	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	вм
Arsenic, Total	1160		ug/l	2.50	0.565	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	ВМ
Calcium, Total	90800		ug/l	500	63.3	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	вм
Chromium, Total	45.0		ug/l	2.50	0.930	5	08/08/10 10:15	08/12/10 22:18	EPA 3005A	1,6020A	ВМ
Iron, Total	82000		ug/I	250	42.0	5	08/08/10 10:15	5 08/12/10 22:18	EPA 3005A	1,6020A	вм
Lead, Total	4.25		ug/l	2.50	0.250	5	08/08/10 10:15	5 08/12/10 22:18	EPA 3005A	1,6020A	ВМ
Magnesium, Total	17300		ug/l	500	20.5	5	08/08/10 10:15	5 08/12/10 22:18	EPA 3005A	1,6020A	ВМ
Manganese, Total	4050		ug/l	5.00	0.680	5	08/08/10 10:15	5 08/12/10 22:18	EPA 3005A	1,6020A	вм
Nickel, Total	39.9		ug/l	2.50	0.900	5	08/08/10 10:15	5 08/12/10 22:18	EPA 3005A	1,6020A	ВМ
Potassium, Total	13300		ug/l	500	90.8	5	08/08/10 10:15	5 08/12/10 22:18	EPA 3005A	1,6020A	ВМ
Sodium, Total	38000		ug/l	500	91.0	5	08/08/10 10:15	5 08/12/10 22:18	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-24 RB-080510-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 12:15

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - We	stborough L	_ab									
Aluminum Total	ND		uo/l	10.0	1 91	1	08/08/10 10:1	5 08/12/10 22:22	1 EPA 3005A	1 6020A	BM

Total Metals - Wes	stborough	Lab								
Aluminum, Total	ND		ug/l	10.0	1.91	4	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	вм
Arsenic, Total	0.27	J	ug/l	0.500	0.113	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Calcium, Total	26.4	J	ug/l	100	12,6	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Chromium, Total	0.29	J	ug/l	0.500	0.186	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Iron, Total	15.5	J	ug/I	50.0	8.41	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Lead, Total	ND		ug/I	0.500	0.050	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	вм
Magnesium, Total	ND		ug/l	100	4.10	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Manganese, Total	0.2	J	ug/l	1.00	0.136	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Nickel, Total	ND		ug/l	0.500	0.180	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Potassium, Total	ND		ug/l	100	18.2	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ
Sodium, Total	22 5	J	ug/l	100	18.2	1	08/08/10 10:15 08/12/10 22:24	EPA 3005A	1,6020A	ВМ

Project Name: SH

SHL TASK 0002

TOWN COMMENCE AT

Lab Number:

L1011964

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-25

Client ID: Sample Location: RB2-080510-U DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 15:20

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough l	_ab									
Aluminum, Total	2.2	J	ug/l	10.0	1.91	1	08/08/10 10:1:	5 08/12/10 22:30	EPA 3005A	1,6020A	ВМ
Arsenic, Total	0.13	J	ug/l	0.500	0.113	1	08/08/10 10:1:	5 08/12/10 22:30	EPA 3005A	1,6020A	BM
Calcium, Total	40	J	ug/l	100	12.6	1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	ВМ
Chromium, Total	0.39	j	ug/l	0.500	0.186	1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	BM
Iron, Total	19.3	J	ug/l	50.0	8.41	1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	ВМ
Lead, Total	0.11	J	ug/l	0.500	0.050	ij	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	вм
Magnesium, Total	ND		ug/l	100	4.10	1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	вм
Manganese, Total	ND		ug/l	1.00	0.136	- 1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	ВМ
Nickel, Total	ND		ug/l	0.500	0.180	1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	ВМ
Potassium, Total	ND		ug/l	100	18.2	1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	ВМ
Sodium, Total	30.1	J	ug/I	100	18.2	1	08/08/10 10:1	5 08/12/10 22:30	EPA 3005A	1,6020A	ВМ

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number:

Sample Location:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-26 GP-10-23-057-F

DEVENS, MA

Matrix:

Sodium, Dissolved

Water

36100

ug/l

500

91.0

5

Date Collected:

08/05/10 14:36

Date Received:

08/05/10

Field Prep:

08/08/10 10:15 08/12/10 20:22 EPA 3005A

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - V	Vestboro	ugh Lab									
Aluminum, Dissolved	ND		ug/l	50.0	9.56	5	08/08/10 10:1	5 08/12/10 20:22	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	1070		ug/l	2.50	0.565	5	08/08/10 10:1:	5 08/12/10 20:22	EPA 3005A	1,6020A	вм
Calcium, Dissolved	85000		ug/l	500	63.3	5	08/08/10 10:1	5 08/12/10 20:22	EPA 3005A	1,6020A	вм
Chromium, Dissolved	ND		ug/l	2.50	0.930	5	08/08/10 10:1	5 08/12/10 20:22	EPA 3005A	1,6020A	вм
Iron, Dissolved	68400		ug/l	250	42.0	5	08/08/10 10:1:	5 08/12/10 20:22	EPA 3005A	1,6020A	вм
Lead, Dissolved	ND		ug/l	2.50	0.250	5	08/08/10 10:1:	5 08/12/10 20:22	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved	15400		ug/I	500	20.5	5	08/08/10 10:1	5 08/12/10 20:22	EPA 3005A	1,6020A	вм
Manganese, Dissolved	3730		ug/l	5.00	0 680	5	08/08/10 10:1:	5 08/12/10 20:22	EPA 3005A	1,6020A	ВМ
Nickel, Dissolved	24.4		ug/l	2.50	0.900	5	08/08/10 10:1	5 08/12/10 20:22	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	11300		ug/l	500	90.8	5	08/08/10 10:1	5 08/12/10 20:22	EPA 3005A	1,6020A	ВМ

1,6020A

BM

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1011964-27 GP-10-23-057-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 14:36

Date Received:

08/05/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wes	stborough L	_ab									
Aluminum, Total	2900		ug/l	50.0	9.56	5	08/08/10 10:15	5 08/12/10 22:48	EPA 3005A	1,6020A	ВМ
Arsenic, Total	1060		ug/l	2.50	0.565	5	08/08/10 10:15	5 08/12/10 22:48	EPA 3005A	1,6020A	вм
Calcium, Total	83200		ug/l	500	63.3	5	08/08/10 10:15	5 08/12/10 22:48	EPA 3005A	1,6020A	ВМ
Chromium, Total	32.4		ug/l	2.50	0.930	5	08/08/10 10:15	5 08/12/10 22:48	EPA 3005A	1,6020A	вм
Iron, Total	72200		ug/l	250	42.0	5	08/08/10 10:15	5 08/12/10 22:48	EPA 3005A	1,6020A	вм
Lead, Total	3.15		ug/l	2.50	0.250	5	08/08/10 10:15	5 08/12/10 22:48	EPA 3005A	1,6020A	ВМ
Magnesium, Total	15700		ug/l	500	20.5	5	08/08/10 10:1	5 08/12/10 22:48	EPA 3005A	1,6020A	ВМ
Manganese, Total	3660		ug/l	5.00	0.680	5	08/08/10 10:1	5 08/12/10 22:48	EPA 3005A	1,6020A	вм
Nickel, Total	34.6		ug/l	2.50	0.900	5	08/08/10 10:1	5 08/12/10 22:48	EPA 3005A	1,6020A	вм
Potassium, Total	12000		ug/l	500	90.8	5	08/08/10 10:1	5 08/12/10 22:48	EPA 3005A	1,6020A	ВМ
Sodium, Total	36600		ug/l	500	91.0	5	08/08/10 10:1	5 08/12/10 22:48	EPA 3005A	1,6020A	вм

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

Method Blank Analysis **Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough	Lab fo	or sample(s):	02,04,	06,08,10	,12,14	16,18,21,2	3-25,27 Batch	: WG426597	7-1	
Aluminum, Total	ND		ug/l	10,0	1,91	1	08/08/10 10:15	08/12/10 20:28	1,6020A	ВМ
Arsenic, Total	ND		ug/l	0,500	0.113	1	08/08/10 10:15	08/12/10 20:28	1,6020A	ВМ
Calcium, Total	12.7	Ĵ	ug/l	100	12.6	.1	08/08/10 10:15	08/12/10 20:28	1,6020A	вм
Chromium, Total	ND		ug/l	0,500	0.186	1	08/08/10 10:15	08/12/10 20:28	1,6020A	ВМ
Iron, Total	16.8	Ĵ	ug/l	50.0	8.41	1	08/08/10 10:15	08/12/10 20:28	1,6020A	вм
Lead, Total	ND		ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 20:28	1,6020A	ВМ
Magnesium, Total	ND		ug/l	100	4.10	1	08/08/10 10:15	08/12/10 20:28	1,6020A	вм
Manganese, Total	0.19	J	ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 20:28	1,6020A	ВМ
Nickel, Total	ND		ug/l	0.500	0.180	- 1	08/08/10 10:15	08/12/10 20:28	1,6020A	вм
Polassium, Total	ND		ug/l	100	18.2	(4)	08/08/10 10:15	08/12/10 20:28	1,6020A	вм
Sodium, Total	18.3	J	ug/I	100	18.2	4.	08/08/10 10:15	08/12/10 20:28	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Wes	tborough Lab for san	nple(s): 01	,03,05,0	07,09,1	1,13,15,17	,19-20,22,26	Batch: WG42	6598-1	
Aluminum, Dissolved	ND	ug/l	10.0	1.91	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Antimony, Dissolved	ND	ug/l	0.500	0.120	- 3	08/08/10 10:15	08/12/10 18:08	1,6020A	ВМ
Arsenic, Dissolved	ND	ug/l	0.500	0.113	1	08/08/10 10:15	08/12/10 18;08	1,6020A	вм
Barium, Dissolved	ND	ug/l	0.500.	0.095	. 1	08/08/10 .10:15	08/12/10 18:08	1,6020A	ВМ
Beryllium, Dissolved	ND	ug/l	0.500	0.059	1	08/08/10 10:15	08/12/10 18:08	1,6020A	ВМ
Cadmium, Dissolved	ND	ug/l	0.500	0.059	1	08/08/10 10:15	08/12/10 18:08	1,6020A	ВМ
Calcium, Dissolved	ND	ug/l	100	12.6	1	08/08/10 10:15	08/12/10 18:08	1,6020A	ВМ
Chromium, Dissolved	ND	ug/l	0.500	0.186	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Cobalt, Dissolved	ND	ug/l	0.500	0.053	- 1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Copper, Dissolved	ND	ug/l	0.500	0.118	- 1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Iron, Dissolved	12 J	ug/l	50,0	8 41	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Lead, Dissolved	ND	ug/l	0.500	0.050	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Magnesium, Dissolved	ND	ug/l	100	4.10	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Manganese, Dissolved	ND	ug/l	1.00	0.136	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Nickel, Dissolved	ND	ug/l	0.500	0.180	1.	08/08/10 10:15	08/12/10 18:08	1,6020A	вм

L1011964

Project Name: SHL TASK 0002 Lab Number:

Project Number: AC001 Report Date: 08/30/10

Method Blank Analysis Batch Quality Control

Potassium, Dissolved	ND		ug/l	100	18.2	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Selenium, Dissolved	ND		ug/l	1.00	0.406	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/08/10 10:15	08/12/10 18:08	1,6020A	ВМ
Sodium, Dissolved	43.9	J	ug/l	100	18,2	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм
Thallium, Dissolved	ND		ug/l	0.500	0.031	1	08/08/10 10:15	08/12/10 18:08	1,6020A	ВМ
Vanadium, Dissolved	ND		ug/l	0.500	0.077	1	08/08/10 10:15	08/12/10 18:08	1,6020A	ВМ
Zinc, Dissolved	ND		ug/l	5.00	1.62	1	08/08/10 10:15	08/12/10 18:08	1,6020A	вм

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL M	Dilution DL Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Wes	stborough Lab for sam	ple(s): 17	,19-20,22	Batch: WG42	28707-1			
Mercury, Dissolved	0.06857 J	ug/l	0.2000 0.	0120 1	08/20/10 18:30	08/23/10 14:05	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis Batch Quality Control

Lab Number:

L1011964

Report Date:

08/30/10

Parameter	LCS %Recover	y Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s):	02,04,06,08	,10,12,14,16,18,2	21,23-25,27	Batch: WG426	5597-2		
Aluminum, Total	95				80-120			
Arsenic, Total	98				80-120	ž.		
Calcium, Total	99,		+		80-120	-		
Chromium, Total	94		¥-1		80-120	-		
Iron, Total	106		-		80-120			
Lead, Total	100		+		80-120	2		
Magnesium, Total	101		4		80-120	1		
Manganese, Total	100		4.		80-120	-		
Nickel, Total	101		-		80-120			
Potassium, Total	101		7		80-120	-		
Sodium, Total	103		*		80-120	91		

Project Name:

Project Number:

SHL TASK 0002

AC001

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

Parameter	LCS %Recovery	LCSD %	Recovery	RPD	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01,03,05,07,09,11,13,15,17,19-20,22,2	6 Batch:	WG426598-2	
Aluminum, Dissolved	92		80-120		
Antimony, Dissolved	92	Ų.	80-120	**	
Arsenic, Dissolved	96	÷	80-120	7	
Barium, Dissolved	93	4	80-120	*	
Beryllium, Dissolved	103	1	80-120	1	
Cadmium, Dissolved	105		80-120	11/4	
Calcium, Dissolved	95	#·	80-120	19	
Chromium, Dissolved	92	8	80-120	*	
Cobalt, Dissolved	99 ·	*	80-120	4	
Copper, Dissolved	98	+	80-120	*	
Iron, Dissolved	103		80-120	*	
Lead, Dissolved	97	D.	80-120	4.	
Magnesium, Dissolved	99	8	80-120	2	
Manganese, Dissolved	98		80-120		
Nickel, Dissolved	98	•	80-120	*	
Potassium, Dissolved	97	-	80-120	4	
Selenium, Dissolved	102		80-120	II E	
Silver, Dissolved	92	4)	80-120	Ä.	
Sodium, Dissolved	103	±	80-120		
Thallium, Dissolved	.90	8	80-120	1.0	
Vanadium, Dissolved	94	e e	80-120		

Lab Control Sample Analysis Batch Quality Control

SHL TASK 0002 Batch Quality

Lab Number:

L1011964

Report Date:

08/30/10

Parameter	LCS %Recovery	LCSD %	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01,03,05,07,09,11,13,15,17,19-20,22,26	Batch:	WG426598-2	
Zinc, Dissolved	99	4	80-120	(- -	
Dissolved Metals - Westborough Lab	Associated sample(s):	17,19-20,22 Batch: WG428707-2			
Mercury Dissolved	109		80-120		20

Project Name:

Project Number:

AC001

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

		1.0									
Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD	Qual	RPD Limits
Total Metals - Westborough L1011964-12 Client ID: G	Lab Associated P-10-23-027-U	sample(s):0	2,04,06,08	3,10,12,14,16,1	8,21,23	-25,27	QC Batch ID: Wo	G426597-3 WG42	6597-4	QC Sa	imple:
Aluminum, Total	735	2000	2550	.91		2650	96	80-120	4		20
Arsenic, Total	2.86	120	126	103		129	105	80-120	2		20
Calcium, Total	16200	10000	25700	95		26100	99	80-120	2		20
Chromium, Total	5.24	200	183	89		191	93	80-120	4		20
Iron, Total	2170	1000	3130	96		3240	107	80-120	3		20
Lead, Total	1.62	510.	503	98		522	102	80-120	4		20
Magnesium, Total	1760	10000	11300	95		11700	99	80-120	3		20
Manganese, Total	189	500	659	94		688	100	80-120	4		20
Nickel, Total	3.88	500	482	96		498	99	80-120	3		20
Potassium, Total	4670	10000	14200	95		14800	101	80-120	4		20
Sodium, Total	218000	10000	218000	0		224000	60	80-120	3		20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	y RPD	RPD Limits
Dissolved Metals - Westborou L1011964-11 Client ID: GP	igh Lab Associ -10-23-027-F	ated sample	(s): 01,03,	05,07,09,11,13,15,	17,19-20,22,26	QC Batch ID:	WG426598-3	WG426598-4	QC Sample
Aluminum, Dissolved	ND	2000.	1850	92	1860	93	80-120	1	20
Antimony, Dissolved	ND	500	488	98	482	96	80-120	1.	20
Arsenic, Dissolved	ND	120	127	106	127	106	80-120	0	20
Barium, Dissolved	39.7	2000	1980	97	1950	96	80-120	2	20
Beryllium, Dissolved	ND	50	51.7	103	51.0	102	80-120	1	20
Cadmium, Dissolved	ND	51	54.3	106	53.6	105	80-120	1	20
Calcium, Dissolved	16300	10000	26300	100	26300	100	80-120	0	20
Chromium, Dissolved	ND	200	185	92	186	93	80-120	1	20
Cobalt, Dissolved	ND	500	506	101	502	100	80-120	1	20
Copper, Dissolved	ND	250	250	100	249	100	80-120	0	20
Iron, Dissolved	701	1000 .	1720	102	1710	101	80-120	ī	20
Lead, Dissolved	ND	510	512	100	510	100	80-120	0	20
Magnesium, Dissolved	1640	10000	11400	98	11600	100	80-120	2	20
Manganese, Dissolved	172	500	658	97	666	99	80-120	1	20
Nickel, Dissolved	2 13	500	496	99	496	99	80-120	0	20
Potassium, Dissolved	4640	10000	14400	98	14500	99	80-120	1	20
Selenium, Dissolved	ND	120 .	123	102	120	100	80-120	2	20
Silver, Dissolved	ND	50 -	46.1	92	45.8	92	80-120	1	20
Sodium, Dissolved	217000	1000,0	221000	40	222000	50	80-120	0	20
Thallium, Dissolved	ND	120 "	113	94	112	93	80-120	1	20
Vanadium, Dissolved	ND	500	488	98	487	97	80-120	0	20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	y RPD	RPD Limits
Dissolved Metals - Westboroug L1011964-11 Client ID: GP-1		iated sample(s): 01,03,0	5,07,09,11,13,15,	17,19-20,22,26	QC Batch ID:	WG426598-3 \	WG426598-4	QC Sample
Zinc, Dissolved	ND	500	504	101	498	100	80-120	1	20
Dissolved Metals - Westborougl 054-F	h Lab Associ	iated sample(s): 17,19-2	0,22 QC Batch I	D: WG428707-4	QC Sample	e: L1011964-19	Client ID:	GP-10-12-
Mercury, Dissolved	ND	1-	1.317	132	Ω -	12	80-120	4	20

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1011964

Report Date:

08/30/10

Parameter	Na	ative Sample	Duplicate Sample	Units	RPD	Qual I	RPD Limits
Dissolved Metals - Westborough Lab 054-F	Associated sample(s):	17,19-20,22	QC Batch ID: WG428707-3	QC Sample:	: L1011964-1	9 Client ID	: GP-1 0-12-
Mercury, Dissolved	* *	0.03853J	0.09225J	ug/l	NC		20

Project Name:

Project Number:

SHL TASK 0002

AC001

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-02 GP-10-21-031-U

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:57

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	50		mg/l	5.0	NA	1		08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	3.9		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-04

Client ID:

GP-10-21-041-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

Field Prep:

08/04/10 16:35

Date Received:

08/05/10 Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	130		mg/l	5.0	NA	1	(*)	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	5.2		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-06

Client ID:

GP-10-21-051-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 17:30

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	240		mg/l	5.0	NA	1	9	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	4.7		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-08

Client ID:

GP-10-21-060-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 18:26

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	240		mg/l	5.0	NA	1		08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	4.4		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-10

Client ID: Sample Location: GP-10-23-017-U

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 10:28

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	ND		mg/l	5.0	NA	1		08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	1.9		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-12

Client ID:

GP-10-23-027-U

Sample Location: Matrix:

Water

DEVENS, MA

Date Collected:

08/05/10 11:17

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	24		mg/l	5.0	NA	1	4	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	2.1		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-14

Client ID:

GP-10-23-037-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 12:02

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	95		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	1.1		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-16

Client ID:

GP-10-23-047-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 13:46

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab	· -								
Solids, Total Suspended	200		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	4.4		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name: SHL TASK 0002 Lab Number: Report Date:

L1011964

Project Number: AC001

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-17

Client ID:

GP-10-12-044-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 12:00

Date Received:

08/05/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Alkalinity, Total	230		mg CaCO3/L	2.0	NA	1	*	08/09/10 14:26	30,2320B	JO
Nitrogen, Ammonia	3.60		mg/l	0.075	0.017	1	08/09/10 16:20	08/10/10 02:05	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1	-	08/05/10 23:52	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	13	J	mg/l	20	7.0	1	*	08/06/10 15:25	44,410.4	DW
Dissolved Organic Carbon	4.1		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	3.3		mg/l	0.50	0.07	1	4	08/14/10 00:10	44,300.0	AU
Nitrogen, Nitrate	0.028	J	mg/l	0.05	0.01	1	*	08/11/10 22:28	44,300.0	AU
Sulfate	1.6		mg/l	1.0	0.12	1	*	08/14/10 00:10	44,300.0	AU

Project Name: SHL TASK 0002

ASK 0002 Lab Number:

Project Number: AC001 Report Date: 08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-18

Client ID: Sample Location: GP-10-12-044-U DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 12:00

Date Received:

08/05/10

L1011964

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab									
Solids, Total Suspended	1300		mg/l	50	NA	10	-	08/11/10 12:30	30,2540D	DW

Project Name: SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-19 GP-10-12-054-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 14:15

Date Received:

08/05/10

Field Prep:

See Narrative

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab								
Alkalinity, Total	220	mg CaCO3/L	2.0	NA	1		08/09/10 14:26	30,2320B	JO
Nitrogen, Ammonia	3.14	mg/l	0.075	0.017	4	08/09/10 16:20	08/10/10 02:07	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1		08/05/10 23:52	30,4500NO2-B	DD
Sulfide	ND	mg/l	0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	,	08/06/10 15:25	44,410.4	DW
Dissolved Organic Carbon	4.7	mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW
Anions by Ion Chromatog	raphy - West	borough Lab							
Chloride	7.6	mg/l	0.50	0.07	1	~	08/13/10 22:58	44,300.0	AU
Nitrogen, Nitrate	0.05	mg/l	0.05	0.01	.1		08/11/10 23:16	44,300.0	AU
Sulfate	3.1	mg/l	1.0	0.12	1	\$	08/13/10 22:58	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1011964-27

Client ID:

GP-10-23-057-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 14:36

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	tborough Lab									
Solids, Total Suspended	300		mg/l	5.0	NA	1	-	08/11/10 12:30	30,2540D	DW
Dissolved Organic Carbon	6.0		mg/l	1.0	1.0	1	08/05/10 23:30	08/12/10 07:26	30,5310C	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001

Report Date:

08/30/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	F	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough La	ab for sam	nple(s):	17,19	Ва	tch: WG	426326-2	Pi-			
Nitrogen, Nitrite	ND		mg/l		0.02	0.002	1	12	08/05/10 23:50	30,4500NO2-B	DD
General Chemistry - We	stborough La	ab for sam	nple(s):	17,19	Ва	tch: WG	426358-1				
Chemical Oxygen Demand	ND		mg/l		20	7.0	1	1.4	08/06/10 15:21	44,410,4	DW
General Chemistry - We	stborough La	ab for san	nple(s):	17,19	Ва	tch: WG	6426677-1				
Alkalinity, Total	ND		mg CaC	03/L	2.0	NA	1		08/09/10 14:26	30,2320B	JO
General Chemistry - We	stborough La	ab for sam	nple(s):	17,19	Ва	tch: WG	6426753-1				
Nitrogen, Ammonia	ND		mg/l	0	.075	0.017	1	08/09/10 16:20	08/10/10 01:53	30,4500NH3-BH	AT.
General Chemistry - We	stborough La	ab for san	nple(s):	17,19	Ва	tch: WG	6426785-1				
Sulfide	ND		mg/l		0.10	0.10	1	08/09/10 18:00	08/09/10 19:00	30,4500S2-AD	AT
General Chemistry - We	stborough La	ab for sam	nple(s):	02,04	,06,0	18,10,12,	14,16,18,	27 Batch: W	G427050-1		
Solids, Total Suspended	ND		mg/l		5.0	NA	1		08/11/10 12:30	30,2540D	DW
jeneral Chemistry - We	stborough La	ab for san	nple(s):	02,04	06,0	8,10,12,	14,16-17,	19,27 Batch:	WG427571-1		
Dissolved Organic Carbon	ND		mg/l		1.0	1.0	Ť	08/05/10 23:30	08/12/10 07:26	30.5310C	DW
Anions by Ion Chromato	graphy - We	stborough	Lab for	samp	le(s)	: 17,19	Batch: V	VG427645-1			
Nitrogen, Nitrate	ND		mg/l		0.05	0.01	1	100	08/11/10 18:51	44,300.0	AU
Anions by Ion Chromato	graphy - We	stborough	Lab for	samp	le(s)	: 17,19	Batch: V	VG427658-1			
Chloride	ND		mg/l		0.50	0.07	1	14	08/13/10 17:22	44,300.0	AU
Sulfate	ND		mg/l		1.0	0.12	10	(4)	08/13/10 17:22	44,300.0	AU
									-	17.00	- T

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	17,19	Batch: WG4263	26-1				
Nitrogen, Nitrite	.95 .		~		90-110	(+)		20
General Chemistry - Westborough Lab	Associated sample(s):	17,19	Batch: WG4263	58-2				
Chemical Oxygen Demand	95		+		95-105	10		
General Chemistry - Westborough Lab	Associated sample(s):	17,19	Batch: WG4266	77-2				
Alkalinity, Total	108		4		80-115	-		4
General Chemistry - Westborough Lab	Associated sample(s):	17,19	Batch: WG4267	53-2				
Nitrogen, Ammonia	98		9.		80-120	-		20
General Chemistry - Westborough Lab	Associated sample(s):	17,19	Batch: WG4267	85-2				
Sulfide	87		-		75-125			
General Chemistry - Westborough Lab	Associated sample(s):	02,04,0	06,08,10,12,14,16-	17,19,27	Batch: WG427	571-2		
Dissolved Organic Carbon	96		۵		90-110	1		
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample	e(s): 17,19 Batch	n: WG4	27645-2			
Nitrogen, Nitrate	92		4		90-110	-		

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

08/30/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by fon Chromatography	- Westborough Lab Associated sample	(s): 17,19 Batch:	WG427658-2		
Chloride	95	4	90-110		
Sulfate	100	9	90-110		

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1011964

Report Date:

08/30/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		covery mits RF		RPD Limits
General Chemistry - Westboro	ough Lab Asso	ciated samp	ole(s): 17,19	QC Batch II	D: WG42	26326-3	QC Sample: L	1011964-17	Client ID	: GP-10-12	2-044-F
Nitrogen, Nitrite	ND	0.1	0.10	100		*	(*)	8	5-115 -		20
General Chemistry - Westboro	ough Lab Asso	ociated samp	ole(s): 17,19	QC Batch II	D: WG42	26358-3	QC Sample: L	1011792-02	Client ID	: MS Samp	ole
Chemical Oxygen Demand	ND	238	240	102			*	80	0-120		20
General Chemistry - Westbord	ough Lab Asso	ociated samp	ole(s): 17,19	QC Batch II	D: WG42	26677-4	QC Sample: L	1011910-01	Client ID	: MS Samp	ole
Alkalinity, Total	26	100	130	106			+	86	6-116 -		4
General Chemistry - Westboro	ough Lab Asso	ciated samp	ole(s): 17,19	QC Batch II	D: WG42	26753-3	QC Sample: L	1011964-17	Client ID	: GP-10-12	2-044-F
Nitrogen, Ammonia	3.60	4	7.62	100		1.		80	0-120 -		20
General Chemistry - Westbord	ough Lab Asso	ciated samp	ole(s): 17,19	QC Batch II	D: WG42	26785-3	QC Sample: L	1011964-19	Client ID	: GP-10-12	2-054-F
Sulfide	ND	0.24	0.16	67	Q	*	æ	75	5-125		20
General Chemistry - Westbord Client ID: GP-10-23-017-U	ough Lab Asso	ociated samp	ole(s): 02,04	,06,08,10,12,1	4,16-17	,19,27	QC Batch ID: W	G427571-3	QC Sam	ple: L10119	64-10
Dissolved Organic Carbon	1.9	4	6.0	104				79	9-120 -		20
Anions by Ion Chromatograph Client ID: GP-10-12-044-F	y - Westborou	igh Lab Asso	ociated sam	ple(s): 17,19	QC Bat	ch ID: W	G427645-3 WG	427645-4	QC Sample	: L1011964	-17
Nitrogen, Nitrate	ND	0.4	0.40	100		0.41	102	80)-122	2	15
Anions by Ion Chromatograph Client ID: GP-10-12-044-F	y - Westborou	gh Lab Asso	ociated sam	ple(s): 17,19	QC Bat	ch ID: W	G427658-3 WG	427658-4	QC Sample	: L1011964	-17
Chloride	3,3	4	7,8	112		6.9	90	40)-151 1	2	18
Sulfate	1.6	8	10	105		9.5	99	60)-140	5	20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Quality Control Lab Number: L1011964
Report Date: 08/30/10

Parameter	Nat	Native Sample		uplicate Samp	ole Units	RPD	Qual RPD Limits	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	17,19	QC Batch ID:	WG426326-4	QC Sample:	L1011964-19	Client ID:	GP-10-12-054-F
Nitrogen, Nitrite	121	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	17,19	QC Batch ID;	WG426358-4	QC Sample:	L1011792-02	Client ID:	DUP Sample
Chemical Oxygen Demand		ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	17,19	QC Batch ID:	WG426677-3	QC Sample:	L1011910-04	Client ID:	DUP Sample
Alkalinity, Total	-	33.		31	mg CaCO3	3/L 6	Q	4
General Chemistry - Westborough Lab	Associated sample(s):	17,19	QC Batch ID:	WG426753-4	QC Sample:	L1011964-17	Client ID:	GP-10-12-044-F
Nitrogen, Ammonia		3.60		3.76	mg/l	4		20
General Chemistry - Westborough Lab	Associated sample(s):	17,19	QC Batch ID:	WG426785-4	QC Sample:	L1011964-19	Client ID:	GP-10-12-054-F
Sulfide	-	ND		ND	mg/l	NC		20
General Chemistry - Westborough Lab D: GP-10-12-044-U	Associated sample(s):	02,04,	06,08,10,12,14	.16,18,27 QC	Batch ID: WG	427050-2 Q	C Sample:	L1011964-18 Client
Solids, Total Suspended	*	1300		1400	mg/l	7		32
General Chemistry - Westborough Lab Client ID: GP-10-23-027-U	Associated sample(s):	02,04,	06,08,10,12,14	,16-17,19,27	QC Batch ID:	WG427571-4	QC Samp	ole: L1011964-12
Dissolved Organic Carbon		2.1		2.1	mg/l	O		20
Anions by Ion Chromatography - Westb 12-044-F	orough Lab Associate	d sampl	e(s): 17,19 C	QC Batch ID: W	/G427645-5 (QC Sample: L	1011964-1	7 Client ID: GP-10-
Nitrogen, Nitrate	A 1	0.028J		0.029J	mg/l	NC		15

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1011964

Report Date: 08/30/10

Parameter		Native Sample		Duplicate Sample Units		RPD		RPD Limits	
Anions by Ion Chromatography - Westborough Lab 12-044-F	Associ	ated sample(s):	17,19	QC Batch ID:	WG427658-5	QC Sample:	L1011964-17	Client ID:	GP-10-
Chloride	4	3,3		3.2	mg/l	3		18	
Sulfate		1.6		1.7	mg/l	6		20	

Project Name:

Project Number: AC001

SHL TASK 0002

Serial_No:08301012:47

Project Name: SHL TASK 0002

Project Number: AC001

SK 0002 Lab Number: L1011964

Report Date: 08/30/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

В

Present/Intact

C

Present/Intact

Α

Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011964-01A	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-02A	Plastic 1000ml unpreserved	C	6	3.8	Y	Present/Intact	TSS-2540(7)
L1011964-02B	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-02C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-02D	Plastic 250ml HNO3 preserved	С	<2	3.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011964-02X	Amber 250ml unpreserved	С	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-03A	Plastic 500ml HNO3 preserved	C	<2	3 8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-04A	Plastic 1000ml unpreserved	C	6	3.8	Y	Present/Intact	TSS-2540(7)
L1011964-04B	Vial H2SO4 preserved split	C	N/A	38	Y	Present/Intact	DOC-5310(28)
L1011964-04C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-04D	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011964-04X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-05A	Plastic 500ml HNO3 preserved	C .	<2	3.8	. Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011964-06A	Plastic 1000ml unpreserved	C	6	3.8	Y	Present/Intact	TSS-2540(7)
L1011964-06B	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-06C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-06D	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011964-06X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-07A	Plastic 500ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS- 6020S(180)
L1011964-08A	Plastic 1000ml unpreserved	C	6	3,8	Y	Present/Intact	TSS-2540(7)
L1011964-08B	· Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)

Project Number: AC001

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011964-08C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-08D	Plastic 250ml HNO3 preserved	С	<2	3.8	Υ	Present/Intact	DOD-AS-6020T(180), DOD-FE-6020T(180)
L1011964-08X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-09A	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180)
L1011964-10A	Plastic 1000ml unpreserved	Α	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-10B	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-10C	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-10D	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011964-10X	Amber 250ml unpreserved	В	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-11A	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011964-11B	Plastic 250ml HNO3 preserved .	В	<2	3,9	Υ.	Present/Intact	DOD-FE-6020S(180), DOD-MG-6020S(180), DOD-CR-6020S(180), DOD-MN-6020S(180), DOD-CA-6020S(180), DOD-NA-6020S(180), DOD-NI-6020S(180), DOD-PB-6020S(180), DOD-AS-6020S(180), DOD-AL-6020S(180), DOD-K-6020S(180)
L1011964-12A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-12B	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-12C	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)

Project Number: AC001

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011964-12D	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011964-12E	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-CR-6020T(180),DOD-CR-6020T(180),DOD-MG-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011964-12X	Amber 250ml unpreserved	В	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-13A	Plastic 500ml HNO3 preserved	.A:	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-14A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-14B	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-14C	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-14D	Plastic 250ml HNO3 preserved	Α	<2	3	Y	Present/Intacl	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011964-14X	Amber 250ml unpreserved	В	6	3 9	Y	Present/Intact	DOC-5310(28)
L1011964-15A	Plastic 500ml HNO3 preserved	Α	<2	3	Y	Present/Intact	DOD-FE-6020S(180),DOD-AS-6020S(180)
L1011964-16A	Plastic 1000ml unpreserved	Α	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-16B	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
Ļ1011964-16Ç	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-16D	Plastic 250ml HNO3 preserved	Α	<2	3	Y	Present/Intact ,	DOD-AS-6020T(180),DOD-FE- 6020T(180)
L1011964-16X	Amber 250ml unpreserved	В	6	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-17A	Plastic 1000ml unpreserved	Α	6	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1011964-17B	Plastic 250ml unpreserved	В	6	3.9	Y	Present/Intact	NO2-4500NO2(2)
L1011964-17C	Plastic 250ml unpreserved	В	N/A	3.9	Y	Present/Intact	ALK-T-2320(14)
L1011964-17D	Plastic 500ml H2SO4 preserved	Α	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011964-17E	Plastic 250ml Zn Acetate/NaOH pr	В	>12	3.9	Y	Present/Intact	SULFIDE-4500(7)
L1011964-17F	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-17G	Plastic 250ml Zn Acetate/NaOH pr	В	>12	3.9	Y	Present/Intact	SULFIDE-4500(7)
L1011964-17J	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)

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Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
L1011964-17K	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	DOC-5310(28)
L1011964-17M	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-TL-6020S(180),DOD-TL-6020S(180),DOD-CA-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-PB-6020S(180),DOD-PB-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CN-6020S(180),DOD-CN-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011964-17X	Amber 250ml unpreserved	В	6	3,9	Y	Present/Intact	DOC-5310(28)
L1011964-18A	Plastic 1000ml unpreserved	A	6	3	Y	Present/Intact	TSS-2540(7)
L1011964-18B	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-MG-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011964-19A	Plastic 1000ml unpreserved	A	6	3	Υ	Present/Intact	SO4-300(28), CL-300(28), NO3-300(2)
L1011964-19B	Plastic 250ml unpreserved	Α	6	3	Y	Present/Intact	NO2-4500NO2(2)
L1011964-19C	Plastic 250ml unpreserved	В	N/A	3.9	Y	Present/Intact	ALK-T-2320(14)
L1011964-19D	Plastic 500ml H2SO4 preserved	· A	<2	- 3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1011964-19E	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-19F	Plastic 250ml Zn Acetate/NaOH pr	A	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-19G	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1011964-19J	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-19K	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)

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Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011964-19M	Plastic 500ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-TL-6020S(180),DOD-TL-6020S(180),DOD-CA-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CN-6020S(180),DOD-CN-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-SC-6020S(180),DOD-HG-7470S(28)
L1011964-19X	Amber 250ml unpreserved	C	6	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-20A	Plastic 250ml HNO3 preserved	C	<2	3.8	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-CD-6020S(180),DOD-AG-6020S(180),DOD-AG-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-AL-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180
= 1 41 (2	A		10.00			- "	6020S(180),DOD-HG-7470S(28)
L1011964-21A	Plastic 500ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)

Project Number: AC001

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011964-22A	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-SB-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NA-6020S(180),DOD-PB-6020S(180),DOD-PB-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CD-6020S(180),DOD-CN-6020S(180),DOD-ZN-6020S(180),DOD-ZN-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-HG-7470S(28)
L1011964-23A	Plastic 500ml HNO3 preserved	В	<2	3.9	Υ	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011964-24A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),
L1011964-25A	Plastic 500ml HNO3 preserved	Α	<2	. 3	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)

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Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011964-26A	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-CR-6020S(180),DOD-MN-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AL-6020S(180),DOD-AL-6020S(180),DOD-K-6020S(180)
L1011964-27A	Plastic 1000ml unpreserved	В	6	3.9	Y	Present/Intact	TSS-2540(7)
L1011964-27B	Vial H2SO4 preserved split	С	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-27C	Vial H2SO4 preserved split	C	N/A	3.8	Y	Present/Intact	DOC-5310(28)
L1011964-27D	Plastic 250ml HNO3 preserved	В	<2	3.9	Y	Present/Intact	DOD-NA-6020T(180),DOD-NI-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-AL-6020T(180),DOD-AS-6020T(180),DOD-K-6020T(180),DOD-MG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1011964-27X	Amber 250ml unpreserved	С	6	3.8	Y	Present/Intact	DOC-5310(28)

Project Name:

SHL TASK 0002

Lab Number:

L1011964

Project Number: AC001 Report Date:

08/30/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD · Laboratory Control Sample Duplicate: Refer to LCS.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD Matrix Spike Sample Duplicate: Refer to MS.

NA -Not Applicable.

NC -Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI Not Ignitable.

RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report,

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- Spectra identified as "Aldol Condensation Product".
- -The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated B field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable D concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value 1 has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix 0 spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.

Report Formal:

DU Report with "J" Qualifiers



Serial_No:08301012:47

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1011964

 Project Number:
 AC001
 Report Date:
 08/30/10

Data Qualifiers

RE Analytical results are from sample re-extraction.

 Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Serial_No:08301012:47

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011964

Report Date:

08/30/10

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.1, issued April 22, 2009

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.

For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate.

Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color. pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease, Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters. PCBs, PCBs in Oil, Organichlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B,

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorqanic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935, NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev 7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited*. *Non-Potable Water* (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065, NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited*. *Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

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Fax: 508+33	9 - 3248	च Standar	a o	RUSH	and and I com	monandi	⊃.A	es E	₹,No	Are (CT RÇ	P (R	easona	ple C	onfide	nca F	rotocols) Required?		
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-22	DUP2-0 80516-F		8/5/10	1436	GW	JAR.									(1	- TAL MO	hols	1
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ANALYTICAL REPORT

Lab Number:

L1011970

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Phil McBain

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/12/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1011970

Report Date:

08/12/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1011970-01	GP-10-21-031-U	DEVENS, MA	08/04/10 15:57
L1011970-02	GP-10-21-041-U	DEVENS, MA	08/04/10 16:35
L1011970-03	GP-10-21-051-U	DEVENS, MA	08/04/10 17:30
L1011970-04	GP-10-21-060-U	DEVENS, MA	08/04/10 18:26
L1011970-05	GP-10-23-017-U	DEVENS, MA	08/05/10 10:28
L1011970-06	GP-10-23-027-U	DEVENS, MA	08/05/10 11:17
L1011970-07	GP-10-23-037-U	DEVENS, MA	08/05/10 12:02
L1011970-08	GP-10-23-047-U	DEVENS, MA	08/05/10 13:46
L1011970-09	GP-10-12-044-F	DEVENS, MA	08/05/10 12:00
L1011970-10	GP-10-12-054-F	DEVENS, MA	08/05/10 14:15
L1011970-11	GP-10-23-057-U	DEVENS, MA	08/05/10 14:36

Project Name:

SHL TASK 0002

Lab Number:

L1011970 08/12/10

Project Number:

AC001

Report Date:

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report contains the Dissolved Inorganic Carbon results only. The results of all other requested analyses will be issued under separate cover.

Sample Receipt

The samples were received at the laboratory requiring filtration for Dissolved Inorganic Carbon; however, "GP-10-21-031-U", "GP-10-21-041-U", "GP-10-21-051-U" and "GP-01-21-060-U" were received beyond the recommended 24 hour holding time required for filtration. The samples were filtered and preserved appropriately.

Dissolved Inorganic Carbon

L1011970-01 through -11 have elevated detection limits due to the dilutions required by the elevated

Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1011970

Report Date:

08/12/10

Case Narrative (continued)

concentrations present in the samples.

WG426975: An LCS and a Laboratory Duplicate were performed in lieu of an MS/MSD.

The Filter Blank result is reported from an analysis where the CCB before the sequence failed high, but reanalysis could not be performed due to limited sample volume.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Usabeth of Simus Elizabeth Simmons

Authorized Signature:

Title: Technical Director/Representative

Date: 08/12/10

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number:

L1011970

Project Number: AC001

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-01

Client ID: Sample Location: GP-10-21-031-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 15:57

Date Received:

08/05/10

Field Prep:

Not Specified

Dilution Date Date Analytical Factor Prepared Analyzed Method Qualifier Units RL MDL Analyst Parameter Result **General Chemistry** Dissolved Inorganic Carbon 8.0 8 08/05/10 23:30 08/10/10 14:40 30,5310C(M) DW 65 mg/l

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011970

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-02

Client ID: Sample Location: GP-10-21-041-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 16:35

Date Received:

08/05/10

Field Prep:

Not Specified

Prep: Not Sp

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	79		mg/l	8.0	-	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011970

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID: Client ID:

Matrix:

L1011970-03 GP-10-21-051-U

Sample Location:

: DEVENS, MA Water Date Collected:

08/04/10 17:30

Date Received:

08/05/10

Field Prep:

Not Specified

Dilution Analytical Method Date Date Factor Prepared Analyzed Qualifier Units MDL Parameter RL Result Analyst **General Chemistry** Dissolved Inorganic Carbon 100 mg/l 20 20 08/05/10 23:30 08/10/10 14:40 30,5310C(M) DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011970

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-04

Client ID:

Sample Location:

GP-10-21-060-U DEVENS, MA

Matrix:

Water

Date Collected:

08/04/10 18:26

Date Received:

08/05/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	84		ma/l	20	-	20	08/05/10 23:30	08/10/10 14:40	30.5310C(M)	DW

Project Name: SHL TASK 0002

SHE TASK 000.

Lab Number:

L1011970

Project Number: AC001 Report Date:

e:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-05

Client ID:

GP-10-23-017-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/05/10 10:28

Date Received:

08/05/10

Field Prep:

Not Specified

Prep: Not Spe

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	22		mg/l	8.0	**	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011970

08/12/10

Project Number: AC001

Report Date:

SAMPLE RESULTS

Lab ID:

L1011970-06

Client ID:

GP-10-23-027-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/05/10 11:17

Date Received:

08/05/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	20		mg/l	8.0		8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

Report Date: Project Number: AC001 08/12/10

SAMPLE RESULTS

Lab ID: L1011970-07 GP-10-23-037-U Client ID: Sample Location: DEVENS, MA

Matrix: Water Date Collected: 08/05/10 12:02 Date Received: 08/05/10 Field Prep:

Not Specified

L1011970

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry Dissolved Inorganic Carbon	26		mg/l	8.0	-	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1011970

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-08

Client ID:

GP-10-23-047-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/05/10 13:46

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	52		mg/l	8.0	**	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name:

SHL TASK 0002

Lab Number:

L1011970

Project Number: AC001

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-09

Client ID: Sample Location: GP-10-12-044-F

Matrix:

DEVENS, MA

Water

Date Collected:

08/05/10 12:00

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	72		mg/l	8.0	**	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011970

Project Number: AC001

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-10

Client ID:

GP-10-12-054-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 14:15

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	66		mg/l	8.0	177	8	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002

Lab Number:

L1011970

Project Number: AC001

Report Date:

08/12/10

SAMPLE RESULTS

Lab ID:

L1011970-11

Client ID: Sample Location: GP-10-23-057-U DEVENS, MA

Matrix:

Water

Date Collected:

08/05/10 14:36

Date Received:

08/05/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry										
Dissolved Inorganic Carbon	87		mg/l	20	**	20	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW

Project Name: SHL TASK 0002 Lab Number:

L1011970

08/12/10

Project Number: AC001

Report Date:

Method Blank Analysis Batch Quality Control

Parameter	Result Qua	lifier U	nits	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sar	nple(s): 01-11	Batch:	WG426	6975-1						
Dissolved Inorganic Carbon	ND		mg/l	1.0	4.5	1	08/05/10 23:30	08/10/10 14:40	30,5310C(M)	DW



Lab Control Sample Analysis
Batch Quality Control

SHL TASK 0002 Batch Quality Con

Lab Number: L1011970

Project Number: AC001 Report Date:

oort Date: 08/12/10

	LCS		LCSD		%Recovery			
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	RPD Limits

Associated sample(s): 01-11 Batch: WG426975-2

Project Name:

Dissolved Inorganic Carbon

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1011970

Report Date:

08/12/10

Parameter	· Nat	ive Sample	Duplicate Sam	ple Units	RPD	Qual	RPD Limits
Associated sample(s): 01-11	QC Batch ID: WG426975-3	QC Sample:	L1011970-06 Client II	D: GP-10-23-027-U			
Dissolved Inorganic Carbon		20	15	mg/l	29		

Project Name:

Project Number: AC001

SHL TASK 0002

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011970 Report Date: 08/12/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B Present/Intact
C Present/Intact
A Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011970-01A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-01B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-01X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-02A	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-02B	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-02X	Amber 250ml unpreserved	В	6	3.9	Y	Present/Intact	SPECWC()
L1011970-03A	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-03B	Vial H2SO4 preserved split	В	N/A	39	Y	Present/Intact	SPECWC()
L1011970-03X	Amber 250ml unpreserved	В	6	39	Y	Present/Intact	SPECWC()
L1011970-04A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-04B	Vial H2SO4 preserved split	C	N/A	39	Y	Present/Intact	SPECWC()
L1011970-04X	Amber 250ml unpreserved	С	6	3.9	Y	Present/Intact	SPECWC()
L1011970-05A	Vial H2SO4 preserved split	С	N/A	39	Y	Present/Intact	SPECWC()
L1011970-05B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-05X	Amber 250ml unpreserved	C	6	3.9	Υ.,	Present/Intact	SPECWC()
L1011970-06A	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-06B	Vial H2SQ4 preserved split	В	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-06X	Amber 250ml unpreserved	В	6	3.9	Y	Present/Intact	SPECWC()
L1011970-07A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-07B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-07X	Amber 250ml unpreserved	C	6	3,9	Y	Present/Intact	SPECWC()
L1011970-08A	Vial H2SO4 preserved split	В	N/A	39	Y	Present/Intact	SPECWC()
L1011970-08B	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-08X	Amber 250ml unpreserved	В	6	3.9	Y	Present/Intact	SPECWC()

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1011970 Report Date: 08/12/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1011970-09A	Vial H2SO4 preserved split	С	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-09B	Vial H2SO4 preserved split	C	N/A	3,9	Y	Present/Intact	SPECWC()
L1011970-09X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-10A	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-10B	Vial H2SO4 preserved split	C	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-10X	Amber 250ml unpreserved	C	6	3.9	Y	Present/Intact	SPECWC()
L1011970-11A	Vial H2SO4 preserved split	В	N/A	3.9	Y	Present/Intact	SPECWC()
L1011970-11B	Vial H2SO4 preserved split	В	N/A	3.9	Υ	Present/Intact	SPECWC()
L1011970-11X	Amber 250ml unpreserved	В	6	3.9	Y	Present/Intact	SPECWC()

Project Name:

SHL TASK 0002

Lab Number:

L1011970

Project Number:

AC001

Report Date:

08/12/10

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

 Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as
estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL
includes any adjustments from dilutions, concentrations or moisture content, where applicable.

 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA Not Applicable.

 Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI -Not Ignitable.

Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration.
 The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD).
 Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.

Report Format: Data Usability Report

ΔLPHA

Project Name: SHL TASK 0002 Lab Number: L1011970
Project Number: AC001 Report Date: 08/12/10

Data Qualifiers

RE Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the reporting limit (RL) for the sample.

Report Format:

Data Usability Report

Project Name:

SHL TASK 0002

Lab Number:

L1011970

Project Number:

AC001

Report Date:

08/12/10

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition, 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

DUPHA

Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate, Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270), Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organichlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Microbiology Parameters', Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin. Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity, Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T. 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0, Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500Nd3-B, 450

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,TI)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-B,E, 5220D, EPA 410.4, SM 5210B, SM4500P-B,E, SM4500P-B

5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic

Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B, Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B, Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015 Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B, Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. <u>Organic Parameters</u>: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. NELAP Accredited. Non-Potable Water (<u>Organic Parameters</u>: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters. 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NY-DOH*. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited*. *Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2_D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B**: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A**: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C**: Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625**: 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

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