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 1 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



Attachment D

Attachment D



ANALYTICAL REPORT

Lab Number:

L1007633

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:

06/16/10

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:

L1007633

Report Date:

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1007633-01	SP-10-07-029	DEVENS, MA	05/21/10 09:30
L1007633-02	SP-10-07-041	DEVENS, MA	05/21/10 10:10
L1007633-03	SP-10-07-053	DEVENS, MA	05/21/10 10:30
L1007633-04	SDUP-052110	DEVENS, MA	05/21/10 09:30
L1007633-05	RB-052110-0	DEVENS, MA	05/21/10 11:25

SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

Report Date:

06/16/10

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.

Total Metals

L1007633-03 has elevated detection limits for all analytes, with the exception of Mercury, due to the dilution required by target analyte spectral interferences encountered during analysis.

The WG415741-3/-4 MS/MSD recoveries for Iron (0%/0%), performed on L1007633-01, are invalid because the sample concentration is greater than four times the spike amount added.

The WG415741-3/-4 MS/MSD recoveries, performed on L1007633-01, are below the acceptance criteria for

SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

Report Date:

06/16/10

Case Narrative (continued)

Antimony (77%/77%) and Magnesium (MSD at 63%). A post digestion spike was performed with an acceptable recovery of 97% for Antimony and 83% for Magnesium. The results for the parent sample (L1007633-01) should be qualified as "UJ" for Antimony and "J" for Magnesium.

The WG415741-3/-4 MS/MSD RPDs, associated with L1007633-01, are above the acceptance criteria for Calcium (21%) and Magnesium (27%). The results of the associated sample are reported. The results for the parent sample (L1007633-01) should be qualified as "J" for Calcium.

The WG415741-6 Post Digestion Spike recovery for Silver was outside the DoD acceptance criteria of 75-125%; therefore, the results for the parent sample (L1007633-01) should be qualified as "UJ".

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.

Auchelle M. Morris Michelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 06/16/10

METALS

SHL TASK 0002

Lab Number:

L1007633

Project Number:

AC001

Report Date:

Date Collected:

06/16/10

SAMPLE RESULTS

Lab ID: Client ID: L1007633-01

SP-10-07-029 DEVENS, MA

Date Received:

05/21/10 09:30 05/21/10

Sample Location:

Field Prep:

Not Specified

Matrix:	Soil										
Percent Solids:	83%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough L	≟ab									
Aluminum, Total	2800		mg/kg	4.8	1.4	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Antimony, Total	ND		mg/kg	2.41	0.381	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	AI
Arsenic, Total	5.61		mg/kg	0.241	0.097	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Barium, Total	14.2		mg/kg	0.482	0.092	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Beryllium, Total	0.183	J	mg/kg	0.241	0.030	4	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Cadmium, Total	ND		mg/kg	0.241	0.039	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Calcium, Total	640	J	mg/kg	4.8	1.4	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Chromium, Total	4.7		mg/kg	0.48	0.06	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Cobalt, Total	2.10		mg/kg	0.965	0.145	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Copper, Total	3.69		mg/kg	0.482	0.150	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Iron, Total	4400		mg/kg	2.4	0.80	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Lead, Total	2.10		mg/kg	0.482	0.092	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	AI
Magnesium, Total	900	J	mg/kg	4.8	1.9	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Manganese, Total	47.7		mg/kg	0.482	0.112	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Mercury, Total	ND		mg/kg	0.08	0.003	1	06/02/10 15:00	0 06/03/10 14:36	EPA 7471A	1,7471A	EZ
Nickel, Total	5.60		mg/kg	1.20	0.154	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Potassium, Total	690		mg/kg	120	43.	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Selenium, Total	ND		mg/kg	0.482	0.169	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Silver, Total	ND		mg/kg	0.482	0.092	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Sodium, Total	48	J	mg/kg	96	27.	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Thallium, Total	ND.		mg/kg	0.965	0.262	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	AJ .
Vanadium, Total	5.33		mg/kg	0.482	0.058	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al
Zinc, Total	14.2		mg/kg	2.41	0.227	1	06/02/10 18:30	0 06/07/10 10:39	EPA 3050B	1,6010B	Al

SHL TASK 0002

Lab Number:

L1007633

Project Number:

AC001

Report Date:

06/16/10

SAMPLE RESULTS

Lab ID:

L1007633-02

Client ID: Sample Location: SP-10-07-041

Matrix:

Soil

DEVENS, MA

Date Collected: Date Received:

06/02/10 18:30 06/07/10 10:52 EPA 3050B

05/21/10 10:10 05/21/10

Field Prep:

Not Specified

10.000.00	7 750										
Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	5900		mg/kg	4.4	1.3	j	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Antimony, Total	0.469	J	mg/kg	2.19	0.346	1	06/02/10 18:30	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Arsenic, Total	12.2		mg/kg	0.219	0.088	1	06/02/10 18:30	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Barium, Total	19.3		mg/kg	0.438	0.083	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Beryllium, Total	0.298		mg/kg	0.219	0.027	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Cadmium, Total	0.0613		mg/kg	0.219	0.035	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Calcium, Total	1400		mg/kg	4.4	1.3	Ť	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Chromium, Total	15		mg/kg	0.44	0.06	4	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Cobalt, Total	4.15		mg/kg	0.876	0.131	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Copper, Total	9.80		mg/kg	0.438	0.136	1	06/02/10 18:30	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Iron, Total	9100		mg/kg	2.2	0.73	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	At
Lead, Total	5.36		mg/kg	0.438	0.083	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Magnesium, Total	3100		mg/kg	4.4	1.7	1	06/02/10 18:30	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Manganese, Total	129		mg/kg	0.438	0.102	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Mercury, Total	ND		mg/kg	0.08	0.003	1	06/02/10 15:0	0 06/03/10 14:45	EPA 7471A	1,7471A	EZ
Nickel, Total	16.2		mg/kg	1,10	0.140	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Potassium, Total	1400		mg/kg	110	39.	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Selenium, Total	0.175	J	mg/kg	0.438	0.153	3	06/02/10 18:30	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Silver, Total	ND		mg/kg	0.438	0.083	1	06/02/10 18:30	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Sodium, Total	120		mg/kg	88	24.	1	06/02/10 18:3	0 06/07/10 10:52	EPA 3050B	1,6010B	Al
Thallium, Total	ND	6 -	mg/kg	0.876	0.238	1 :	06/02/10 18:30	0 06/07/10 10:52	EPA 3050B	1,6010B	- Al
Vanadium, Total	10.1	- 0 × °	mg/kg	0.438	0.053	1	06/02/10 18:30	0 06/07/10 10:52	ÈPA 3050B	1,6010B	Ài
	4.0										

1,6010B

Zinc, Total

28.8

mg/kg

2.19

0.206

Project Name: SHL TASK 0002 Lab Number: L1007633

Project Number: AC001 Report Date: 06/16/10

SAMPLE RESULTS

Lab ID: L1007633-03 Date Collected: 05/21/10 10:30 Client ID: SP-10-07-053 Date Received: 05/21/10 Sample Location: DEVENS, MA Field Prep: Not Specified Matrix: Soil

Percent Solids: 99% Dilution Date Date Prep Analytical Method Factor Prepared Analyzed Method **Parameter** Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 30000 40 12. mg/kg 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al Antimony, Total ND mg/kg 20.2 3.18 10 1,6010B 06/02/10 18:30 06/07/10 10:55 EPA 3050B Al Arsenic, Total 32.4 2.02 0.806 mg/kg 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al 74.6 Barium, Total 0.766 mg/kg 4.03 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al

Beryllium, Total 1.01 J mg/kg 2.02 0.250 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al Cadmium, Total ND mg/kg 2.02 0.322 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al Calcium, Total 25000 40 12. mg/kg 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al Chromium, Total 68 4.0 0.52 mg/kg 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Cobalt, Total 21.2 8.06 1.21 10 mg/kg 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al Copper, Total 29.6 4.03 1.25 10 mg/kg 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Iron, Total 41000 6.7 mg/kg 20 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Lead, Total 29.3 mg/kg 4.03 0.766 10 1,6010B 06/02/10 18:30 06/07/10 10:55 EPA 3050B AI 21000 Magnesium, Total 40 16. 10 mg/kg 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Ai 740 10 Manganese, Total 4.03 0.935 mg/kg 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al Mercury, Total ND 0.07 0.002 1 mg/kg 06/02/10 15:00 06/03/10 14:47 EPA 7471A 1.7471A EZ Nickel, Total 101 mg/kg 10.1 1.29 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Potassium, Total 11000 1000 360 10 mg/kg 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Selenium, Total mg/kg 1.45 J 4.03 1.41 10 1,6010B 06/02/10 18:30 06/07/10 10:55 EPA 3050B ΑI Silver, Total ND mg/kg 4.03 0.766 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Sodium, Total 510 J mg/kg 810 220 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Thallium, Total ND mg/kg 8.06 2.19 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI Vanadium, Total 49.0 4:03 0.484 mg/kg 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B AI. Zinc, Total 109 mg/kg 20.2 1.89 10 06/02/10 18:30 06/07/10 10:55 EPA 3050B 1,6010B Al

SHL TASK 0002

Lab Number:

L1007633

Project Number:

AC001

Report Date:

06/16/10

SAMPLE RESULTS

Lab ID:

L1007633-04

Client ID: Sample Location:

SDUP-052110 DEVENS, MA

Matrix:

Soil

Date Collected:

05/21/10 09:30

Date Received:

06/02/10 18:30 06/07/10 10:58 EPA 3050B

06/02/10 18:30 06/07/10 10:58 EPA 3050B

05/21/10

Field Prep:

Not Specified

mann.	0011										
Percent Solids:	84%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough L	_ab									
Aluminum, Total	2500		mg/kg	4.5	1.3	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Antimony, Total	ND		mg/kg	2.26	0.357	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Arsenic, Total	5.15		mg/kg	0.226	0.091	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Barium, Total	12.0		mg/kg	0.452	0.086	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Beryllium, Total	0.172	J	mg/kg	0.226	0.028	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Cadmium, Total	ND		mg/kg	0,226	0.036	3	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Calcium, Total	700		mg/kg	4.5	1.3	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Chromium, Total	4.0		mg/kg	0.45	0.06	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Cobalt, Total	1.92		mg/kg	0.905	0.136	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Copper, Total	3.60		mg/kg	0.452	0.140	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	AI
Iron, Total	4000		mg/kg	2.3	0.75	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Lead, Total	2.22		mg/kg	0.452	0.086	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Magnesium, Total	750		mg/kg	4.5	1.7	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Manganese, Total	42.3		mg/kg	0.452	0.105	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	AI
Mercury, Total	ND		mg/kg	0.09	0.003	1	06/02/10 15:0	0 06/03/10 14:49	EPA 7471A	1,7471A	EZ
Nickel, Total	5.11		mg/kg	1.13	0.145	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Potassium, Total	570		mg/kg	110	40.	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Selenium, Total	ND		mg/kg	0.452	0.158	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	AI
Silver, Total	ND		mg/kg	0.452	0.086	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Sodium, Total	45	J	mg/kg	90	25.	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	Al
Thallium, Total	ND .		mg/kg	0.905	0.246	1	06/02/10 18:3	0 06/07/10 10:58	EPA 3050B	1,6010B	AI.

0.452

2.26

mg/kg

mg/kg

0.054

0.212

1

1,6010B

1,6010B

AI

Al

Vanadium, Total

Zinc, Total

4.57

13.6

SHL TASK 0002

SIL INSK UU

Lab Number:

L1007633

Project Number:

AC001

Report Date:

06/16/10

SAMPLE RESULTS

Lab ID: Client ID: L1007633-05

Sample Location:

RB-052110-0 DEVENS, MA

Matrix:

Water

Date Collected:

05/21/10 11:25

Date Received:

05/21/10

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	ND		ug/l	100	30.	1	06/01/10 15:50	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Antimony, Total	ND		ug/l	50.0	7.90	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Arsenic, Total	ND		ug/l	5.00	2.00	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Barium, Total	ND		ug/l	10.0	1.90	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Beryllium, Total	ND		ug/l	5.00	0.620	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Cadmium, Total	ND		ug/l	5.00	0.800	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Calcium, Total	35	J	ug/l	100	29.	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,60108	Al
Chromium, Total	ND		ug/l	10	1.3	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Cobalt, Total	ND		ug/l	20.0	3.00	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Copper, Total	ND		ug/l	10.0	3.10	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Iron, Total	ND		ug/l	50.	17.	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Lead, Total	ND		ug/l	10.0	1.90	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	AI
Magnesium, Total	ND		ug/i	100	39.	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Ai
Manganese, Total	ND		ug/l	10.0	2,32	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Mercury, Total	ND		ug/l	0.2000	0.0120	1	06/02/10 17:5	5 06/03/10 12:23	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		ug/l	25.0	3.20	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Potassium, Total	ND		ug/l	2500	880	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Selenium, Total	ND		ug/l	10.0	3.50	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Silver, Total	ND		ug/l	7.00	1.90	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	AI
Sodium, Total	ND		ug/l	2000	550	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al
Thallium, Total	ND.	2.1	'ug/l	20.0	5.43	"1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	A
Vanadium, Total	ND	. *W	ug/l	10.0	1.20	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al'
Zinc, Total	ND		ug/l	50.0	4.70	1	06/01/10 15:5	0 06/07/10 09:57	EPA 3005A	1,6010B	Al

SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

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06/16/10

Method Blank Analysis Batch Quality Control

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westboroug	h Lab for s	sample(s)	: 05 Ba	tch: W	G41550	4-1				
Aluminum, Total	ND		ug/l	100	30.	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Antimony, Total	ND		ug/l	50.0	7.90	1	06/01/10 15:50	06/07/10 09:51	1,6010B	AI
Arsenic, Total	ND		ug/l	5.00	2.00	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Barium, Total	ND		ug/l	10.0	1.90	1	06/01/10 15:50	06/07/10 09:51	1,6010B	AI
Beryllium, Total	ND		ug/l	5.00	0.620	-1	06/01/10 15:50	06/07/10 09:51	1,6010B	AL
Cadmium, Total	ND		ug/l	5.00	0.800	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Calcium, Total	ND		ug/l	100	29.	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Chromium, Total	ND		ug/l	10	1.3	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Cobalt, Total	ND		ug/l	20.0	3.00	1	06/01/10 15:50	06/07/10 09:51	1,6010B	AI
Copper, Total	ND		ug/l	10.0	3.10	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Iron, Total	ND		ug/l	50	17.	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Lead, Total	ND		ug/l	10.0	1.90	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Magnesium, Total	ND		ug/l	100	39.	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Manganese, Total	ND		ug/l	10.0	2.32	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Nickel, Total	ND		ug/l	25.0	3.20	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Potassium, Total	ND		ug/l	2500	880	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Selenium, Total	ND		ug/l	10.0	3,50	1	06/01/10 15:50	06/07/10 09:51	1,6010B	AL
Silver, Total	ND		ug/I	7.00	1 90	1	06/01/10 15:50	06/07/10 09:51	1,6010B	AL
Sodium, Total	ND		ug/l	2000	550	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Thallium, Total	ND		ug/l	20.0	5.43	1	06/01/10 15:50	06/07/10 09:51	1,6010B	- Al
Vanadium, Total	ND		ug/l	10.0	1.20	1	06/01/10 15:50	06/07/10 09:51	1,6010B	Al
Zinc, Total	10.3	J	ug/l	50.0	4.70	1	06/01/10 15:50	06/07/10 09:51	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

					Dilution	Date	Date	Analytica	
Parameter	Result Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Analyst
Total Metals - Westborou	ugh Lab for sample(s):	01-04	Batch:	WG41	5741-1				
Aluminum, Total	ND	mg/kg	4.0	1.2	1	06/02/10 18:30	06/07/10 10:33	1,6010B	AI
Antimony, Total	ND	mg/kg	2.00	0.316	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Arsenic, Total	ND	mg/kg	0.200	0.080	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Barium, Total	ND	mg/kg	0.400	0.076	1	06/02/10 18:30	06/07/10 10:33	1,6010B	At .

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Project Number: AC001

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Method Blank Analysis Batch Quality Control

Beryllium, Total	ND		mg/kg	0.200	0.025	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Cadmium, Total	ND		mg/kg	0.200	0.032	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Calcium, Total	ND		mg/kg	4.0	1.2	1	06/02/10 18:30	06/07/10 10:33	1,6010B	AI
Chromium, Total	ND		mg/kg	0.40	0.05	4	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Cobalt, Total	ND		mg/kg	0.800	0.120	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Copper, Total	ND		mg/kg	0.400	0.124	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Iron, Total	ND		mg/kg	2.0	0.66	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Lead, Total	0.076	J	mg/kg	0.400	0.076	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Magnesium, Total	ND		mg/kg	4.0	1.5	9	06/02/10 18:30	06/07/10 10:33	1,60108	Al
Manganese, Total	ND		mg/kg	0.400	0.093	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Nickel, Total	ND		mg/kg	1.00	0.128	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Potassium, Total	ND		mg/kg	100	35.	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Selenium, Total	ND		mg/kg	0.400	0.140	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Silver, Total	ND		mg/kg	0.400	0.076	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Sodium, Total	ND		mg/kg	80	22.	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Thallium, Total	ND		mg/kg	0.800	0.217	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Vanadium, Total	ND		mg/kg	0.400	0.048	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al
Zinc, Total	ND		mg/kg	2.00	0.188	1	06/02/10 18:30	06/07/10 10:33	1,6010B	Al

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough	Lab fo	or sample(s):	01-04	Batch;	WG41	5810-1	48 1174 AV	2-4-20-00-00	, justice 11-40	- ×//- = -
Mercury, Total	ND		mg/kg	0.08	. 0.003	. 1	06/02/10 15:00	.06/03/10 14:33	3. 1,7.471A	EZ

Prep Information

Digestion Method: EPA 7471A

					Dilution	Date	Date	Analytica	
Parameter	Result Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Analyst
Total Metals - Westboroug	h Lab for sample(s)): 05 Ba	tch: W	G41582	22-1				
Mercury, Total	ND	ug/l	0.2000	0.0120	1	06/02/10 17:55	06/03/10 12:19	1,7470A	EZ

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Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1007633 Report Date:

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 05	Batch:	WG415504-2					
Aluminum, Total	90				80-120	÷,		
Antimony, Total	101				80-120			
Arsenic, Total	106				80-120	•		
Barium, Total	94 *.		3.		80-120			
Beryllium, Total	97				80-120	-		
Cadmium, Total	107		¥		80-120			
Calcium, Total	92		· ·		80-120			
Chromium, Total	95				80-120	-		
Cobalt, Total	96				80-120			
Copper, Total	.95		1		80-120	4		
Iron, Total	92		(9)		80-120	2		
Lead, Total	100		91		80-120			
Magnesium, Total	95				80-120			
Manganese, Total	94				80-120	-		
Nickel, Total	96		30		80-120			
Potassium, Total	96 🖟				80-120	2		
Selenium, Total	109				80-120	9		
Silver, Total	94				80-120			
Sodium, Total	96				80-120	+		
Thallium, Total	102				80-120			
Vanadium, Total	95		-		80-120			

Lab Number:

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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab A	ssociated sample(s): 05 Bate	ch: WG415504-2			
Zinc, Total	98		80-120	-	

Project Name:

Project Number:

SHL TASK 0002

AC001

SHL TASK 0002 Batch Quality Co

Lab Number:

L1007633

Report Date:

06/16/10

Project Name: Project Number:

AC001

Aluminum, Total	Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Antimony, Total 98 80-120 - Arsenic, Total 102 80-120 - Barium, Total 100 80-120 - Beryllium, Total 105 80-120 - Cadmium, Total 96 80-120 - Chromium, Total 94 80-120 - Cobalt, Total 98 80-120 - Copper, Total 98 80-120 - Iron, Total 106 80-120 - Lead, Total 99 80-120 - Magnesium, Total 99 80-120 - Mickel, Total 98 80-120 - Potassium, Total 98 80-120 - Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thailium, Total 98 80-120 -	Total Metals - Westborough Lab	Associated sample(s): 01-04	Batch: WG415741-2			
Antimony, Total 98	Aluminum, Total	96	4	80-120		
Barium, Total 160 80-120 - Beryllium, Total 302 80-120 - Cadmium, Total 105 80-120 - Calcium, Total 96 80-120 - Chromium, Total 94 80-120 - Cobalt, Total 98 80-120 - Copper, Total 98 80-120 - Iron, Total 106 80-120 - Lead, Total 99 80-120 - Magnesium, Total 90 80-120 - Mickel, Total 99 80-120 - Potassium, Total 98 80-120 - Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Solium, Total 101 80-120 - Thallium, Total 98 80-120 -	Antimony, Total	98	1.90	80-120		
Beryllium, Total 105 80-120 - Cadmium, Total 105 80-120 - Calcium, Total 96 80-120 - Chromium, Total 94 80-120 - Cobalt, Total 98 80-120 - Copper, Total 98 80-120 - Iron, Total 106 80-120 - Lead, Total 99 80-120 - Magnesium, Total 90 80-120 - Manganese, Total 99 80-120 - Nickel, Total 95 80-120 - Potassium, Total 98 80-120 - Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Arsenic, Total	102		80-120	4	
Beryllium, Total 402 80-120 - Cadmium, Total 105 80-120 - Calcium, Total 96 80-120 - Chromlum, Total 94 80-120 - Cobalt, Total 96 80-120 - Copper, Total 98 80-120 - Iron, Total 99 80-120 - Lead, Total 99 80-120 - Magnesium, Total 99 80-120 - Mickel, Total 95 80-120 - Potassium, Total 98 80-120 - Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Barium, Total	100	1.4	80-120	4	
Calcium, Total 96 80-120 - Chromium, Total 94 80-120 - Cobalt, Total 96 80-120 - Copper, Total 98 80-120 - Iron, Total 106 80-120 - Lead, Total 99 80-120 - Magnesium, Total 90 80-120 - Manganese, Total 99 80-120 - Nickel, Total 95 80-120 - Potassium, Total 98 80-120 - Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Beryllium, Total			80-120	-	
Chromium, Total -94 - 80-120 - Cobalt, Total .96 - 80-120 - Copper, Total 98 - 80-120 - Iron, Total 106 - 80-120 - Lead, Total .99 - 80-120 - Magnesium, Total .99 - 80-120 - Manganese, Total .95 - 80-120 - Nickel, Total .95 - 80-120 - Potassium, Total .98 - 80-120 - Selenium, Total .02 - 80-120 - Sodium, Total .02 - 80-120 - Sodium, Total .01 - 80-120 - Thallium, Total .96 - 80-120 -	Cadmium, Total	105		80-120		
Cobalt, Total .96 - 80-120 - Copper, Total 98 - 80-120 - Iron, Total 106 - 80-120 - Lead, Total 99 - 80-120 - Magnesium, Total 99 - 80-120 - Manganese, Total 99 - 80-120 - Nickel, Total 95 - 80-120 - Potassium, Total 98 - 80-120 - Selenium, Total 102 - 80-120 - Sodium, Total 102 - 80-120 - Sodium, Total 101 - 80-120 - Thallium, Total 96 - 80-120 -	Calcium, Total	96 🛊		80-120	*	
Cobalt, Total .96 80-120 - Copper, Total 98 - 80-120 - Iron, Total 106 - 80-120 - Lead, Total 99 - 80-120 - Magnesium, Total 90 - 80-120 - Manganese, Total 99 - 80-120 - Nickel, Total 95 - 80-120 - Potassium, Total 98 - 80-120 - Selenium, Total 102 - 80-120 - Sodium, Total 101 - 80-120 - Thallium, Total 96 - 80-120 -	Chromium, Total	-94		80-120	2	
Iron, Total 106 - 80-120 - Lead, Total 99 - 80-120 - Magnesium, Total 90 - 80-120 - Manganese, Total 99 - 80-120 - Nickel, Total 95 - 80-120 - Potassium, Total 98 - 80-120 - Selenium, Total 102 - 80-120 - Soliver, Total 101 - 80-120 - Sodium, Total 101 - 80-120 - Thallium, Total 96 - 80-120 -	Cobalt, Total			80-120		
Lead, Total 98 - 80-120 - Magnesium, Total 90 - 80-120 - Manganese, Total 99 - 80-120 - Nickel, Total 95 - 80-120 - Potassium, Total 98 - 80-120 - Selenium, Total 102 - 80-120 - Silver, Total 102 - 80-120 - Sodium, Total 101 - 80-120 - Thallium, Total 96 - 80-120 -	Copper, Total	98	3.	80-120	4.	
Lead, Total 99 - 80-120 - Magnesium, Total 90 - 80-120 - Manganese, Total 99 - 80-120 - Nickel, Total 95 - 80-120 - Potassium, Total 98 - 80-120 - Selenium, Total 102 - 80-120 - Sodium, Total 101 - 80-120 - Thallium, Total 96 - 80-120 -	Iron, Total	106	4	80-120	•	
Magnesium, Total 90 80-120 - Manganese, Total 99 80-120 - Nickel, Total 95 80-120 - Potassium, Total 98 80-120 - Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Lead, Total		4	80-120	.5	
Manganese, Total 99 - 80-120 - Nickel, Total 95 - 80-120 - Potassium, Total 98 - 80-120 - Selenium, Total 102 - 80-120 - Silver, Total 102 - 80-120 - Sodium, Total 101 - 80-120 - Thallium, Total 96 - 80-120 -	Magnesium, Total	The state of the s	4	80-120		
Potassium, Total 98 80-120 - Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Manganese, Total		4	80-120	9	
Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Nickel, Total	95		80-120	1	
Selenium, Total 102 80-120 - Silver, Total 102 80-120 - Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Potassium, Total	98 ~_	9.	80-120		
Silver, Total 102 - 80-120 - Sodium, Total 101 - 80-120 - Thallium, Total 96 - 80-120 -	Selenium, Total			80-120		
Sodium, Total 101 80-120 - Thallium, Total 96 80-120 -	Silver, Total			80-120	*	
	Sodium, Total		€.	80-120	*	
Vanadium, Total 97 80-120 -	Thallium, Total	96	6:	80-120		
	Vanadium, Total	97	14.	80-120	ě.	

Project Name:

SHL TASK 0002

Project Number: AC001

Quality Control Lab Number:

L1007633

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab	Associated sample(s) 01-04	Batch: WG415741-2			
Zinc, Total	95		80-120	9	
Total Metals - Weştborough Lab	Associated sample(s): 01-04	Batch: WG415810-2			
Mercury, Total	107	2	80-120		20
Total Metals - Westborough Lab	Associated sample(s): 05 Ba	atch: WG415822-2			
Mercury, Total	104	1-3	80-120		20

Project Name:

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Project Number:

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	Native Sample	MS Added	MS Found	MS %Recovery Qu		SD und	MSD %Recovery	Qual	Recovery Limits	RPD (Qual	RPD Limits
Total Metals - Westborough Lab A	ssociated	sample(s): 05	QC Ba	atch ID: WG415504-	4 Q	C Sam	ple: L1007633-0	5 Cli	ent ID: RB-	052110-	-0	
Aluminum, Total	ND	2000	1900	95					80-120			20
Antimony, Total	ND	500	516	103		-			80-120	4.		20
Arsenic, Total	ND	120	129	108			+		80-120	8		20
Barium, Total	ND	2000	1930	96		1	4		80-120	2		20
Beryllium, Total	ND	50	49.7	99		4			80-120	20		20
Cadmium, Total	ND	51.	56.0	110					80-120			20
Calcium, Total	ND	10000	9500	95		-	30		80-120			20
Chromium, Total	ND	200	190	95		*			80-120	(4)		20
Cobalt, Total	ND	500	493	99					80-120	*		20
Copper, Total	ND	250	242	97		~	÷		80-120	4		20
Iron, Total	ND	1000	950	95		~	9.1		80-120	(9)		20
Lead, Total	ND	510	527	103		2.	4.1		80-120	-		20
Magnesium, Total	ND	10000	9700	97		*	(40)		80-120			20
Manganese, Total	ND	500	484	97					80-120			20
Nickel, Total	ND	500.	490	98		8	4		80-120	7		20
Potassium, Total	ND	10000	9800	98		-2	180		80-120	*		20
Selenium, Total	ND	120	133	111			+		80-120	+		20
Silver, Total	ND	50	47,7	95		-	4		80-120			20
Sodium, Total	ND	10000	9800	98		4	8		80-120	5		20
Thallium, Total	ND	120	122	102			*		80-120	-		20
Vanadium, Total	ND	500	488	98	-	3	2		80-120			20

Project Name:

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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough	Lab Associated	sample(s): 05	QC Ba	atch ID: WG415504-4	QC Sam	pie: L1007633-05	Client ID: RB	-052110-0	
Zinc, Total	ND	500°	504	101			80-120	÷	20

Project Name:

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Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recover	у	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab 029	o Associated	sample(s): 0	11-04 QC	Batch ID: WG	415741-3	WG41574	14 QCS	ample: L	1007633-01	Client ID	: SP-10-07
Aluminum, Total	2800	96.3	2900	104		2900	106		80-120	2	20
Antimony, Total	ND	24.1	18.5	77	Q	18.2	77	Q	80-120	0	20
Arsenic, Total	5.61	5.78	11.8	107		11.6	105		80-120	2	20
Barium, Total	14.2	96.3	105	94		105	96		80-120	2	20
Beryllium, Total	ND	2.41	2.50	104		2.52	106		80-120	2	20
Cadmium, Total	ND	2.46	2.52	103		2.50	104		80-120	1	20
Calcium, Total	640	482	1100	96		1200	118		80-120	21	20
Chromium, Total	4.7	9.63	14	96		13	88		80-120	9	20
Cobalt, Total	2.10	24.1	24.5	93		24.3	94		80-120	1	20
Copper, Total	3.69	12	15.2	96		15.1	96		80-120	0	20
Iron, Total	4400	48.2	4400	0	Q	4300	0	Q	80-120	NC	20
Lead, Total	2.10	24.6	25.2	94		24.9	94		80-120	0	20
Magnesium, Total	900	482	1300	83		1200	63	Q	80-120	27 0	20
Manganese, Total	47.7	24.1	69.0	88		69.6	92		80-120	4	20
Nickel, Total	5.60	24.1	27.5	91		27.3	92		80-120	1	20
Potassium, Total	690	482	1100	85		1100	86		80-120	1	20
Selenium, Total	ND	5.78	5.75	100		5.69	100		80-120	0	20
Silver, Total	ND	14.4	14.6	101		14.3	101		80-120	0	20
Sodium, Total	ND	482	510	106		510	108		80-120	2	20
Thallium, Total	ND	5.78	4.97	86		4.85	85		80-120	1	20
Vanadium, Total	5.33	24.1	28.2	95		27.4	93		80-120	2	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1007633

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recover	Recovery y Limits	RPD	RPD Limits
Total Metals - Westborough L 029	ab Associated	sample(s): 01	-04 Q0	C Batch ID: WG41574	1-3 WG4157	41-4 QC S	Sample: L1007633-01	Client ID:	SP-10-07
Zinc, Total	14.2	24.1	35.9	90	36.4	94	80-120	4	20
Total Metals - Westborough L 029	ab Associated	sample(s): 01	-04 Q0	C Batch ID: WG41581	0-3 WG4158	10-4 QC S	Sample: L1007633-01	Client ID:	SP-10-07
Mercury, Total	ND	0.17	0.18	106	0.22	112	80-120	6	20
Total Metals - Westborough L	ab Associated	sample(s): 05	QC B	atch ID: WG415822-4	QC Sampl	e: L100763	3-05 Client ID: RB-	052110-0	
Mercury, Total	ND	1.	1.084	108	+		80-120		20

Lab Duplicate Analysis Batch Quality Control

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

Report Date:

Parameter	N	ative Sample	Duplicate S	Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 05	QC Batch ID:	WG415504-3 QC	Sample: I	1007633-05	Client ID:	RB-05211	0-0
Aluminum, Total		ND	ND		ug/l	NC		20
Antimony, Total		ND	ND		ug/l	NC		20
Arsenic, Total	2.0	ND	ND		ug/l	NC		20
Barium, Total		ND	ND		ug/l	NC		20
Beryllium, Total	* *	ND	ND		ug/l	NC		20
Cadmium, Total	7.5	ND	ND		ug/l	NC		20
Calcium, Total		35J	ND		ug/l	NC		20
Chromium, Total	X .1	ND	ND		ug/l	NC		20
Cobalt, Total	A	ND	ND		ug/l	NC		20
Copper, Total	4	ND	ND		ug/l	NC		20
Iron, Total		ND	ND		ug/l	NC		20
Lead, Total		ND	ND		ug/l	NC		20
Magnesium, Total	*1	ND	ND		ug/I	NC		20
Manganese, Total	1	ND	ND		ug/I	NC		20
Nickel, Total		ND	ND		ug/l	NC		20
Potassium, Total	4	ND	ND		ug/I	NC		20
Selenium, Total	1	ND	ND		ug/l	NC		20
Silver, Total		ND	ND		ug/l	NC		20
Sodium, Total	· ·	ND	ND		ug/I	NC		20

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1007633

Report Date:

06/16/10

Parameter	£ £	Native Sample	Duplic	ate Sample	Units	RPD	RP	D Limits
Total Metals - Westborough Lab	Associated sample(s): 05	QC Batch ID:	WG415504-3	QC Sample:	L1007633-05	Client ID:	RB-052110-0	
Thallium, Total	ř.,	ND		ND	ug/l	NC		20
Vanadium, Total		ND		ND	ug/l	NC		20
Zinc, Total	4	ND		ND	ug/l	NC		20
Total Metals - Westborough Lab	Associated sample(s): 05	QC Batch ID:	WG415822-3	QC Sample:	L1007633-05	Client ID:	RB-052110-0	
Mercury, Total		ND		ND	ua/l	NC		20

Project Name:

Project Number:

SHL TASK 0002

AC001

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

Report Date:

06/16/10

SAMPLE RESULTS

Lab ID:

L1007633-01

Client ID:

SP-10-07-029 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

05/21/10 09:30

Date Received:

05/21/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.010		%	0.010	0.010	1		05/27/10 09:00	1,9060	NR
Total Organic Carbon (Rep2)	0.011		%	0.010	0.010	1		05/27/10 09:00	1,9060	NR
General Chemistry - West	borough Lab	1								
Solids, Total	83		%	0.10	NA	1		05/28/10 09:20	30,2540G	TL

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

Report Date:

06/16/10

SAMPLE RESULTS

Lab ID:

L1007633-02

Client ID: Sample Location: DEVENS, MA

SP-10-07-041

Matrix:

Soil

Date Collected:

05/21/10 10:10

Date Received:

05/21/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.012		%	0.010	0.010	1		05/27/10 09:00	1,9060	NR
Total Organic Carbon (Rep2)	0.020		%	0.010	0.010	1	-	05/27/10 09:00	1,9060	NR
General Chemistry - West	borough Lab	h								
Solids, Total	91		%	0.10	NA	1		05/28/10 09:20	30,2540G	TL

Project Name: SHL TASK 0002

Lab Number:

L1007633

Project Number: AC001

AC001

Report Date:

06/16/10

SAMPLE RESULTS

Lab ID:

L1007633-03

Date Collected:

05/21/10 10:30

Client ID:

SP-10-07-053

Date Received:

05/21/10

Sample Location:

DEVENS, MA

Field Prep:

Not Specified

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.032		%	0.010	0.010	1		05/27/10 09:00	1,9060	NR
Total Organic Carbon (Rep2)	0.032		%	0.010	0.010	1	-	05/27/10 09:00	1,9060	NR
General Chemistry - West	borough Lab	ì								
Solids, Total	99		%	0.10	NA	1	•	05/28/10 09:20	30,2540G	TL

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1007633

Report Date:

06/16/10

SAMPLE RESULTS

Lab ID:

L1007633-04

Client ID: Sample Location:

SDUP-052110 DEVENS, MA

Matrix:

Soil

Date Collected:

05/21/10 09:30

05/21/10

Date Received: Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.012		%	0.010	0.010	1	+	05/27/10 09:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1	18.	05/27/10 09:00	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	84		%	0.10	NA	1	360	05/28/10 09:20	30,2540G	TL

Project Name: SHL TASK 0002

TASK 0002 Lab Number: L1007633

Project Number: AC001 Report Date: 06/16/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - M	ansfield Lab for samp	ole(s): 01-	-04 Bate	ch: WG	414817-1				
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		05/27/10 09:00	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1		05/27/10 09:00	1,9060	NR

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1007633

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		ecovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mans	field Lab Assoc	ciated sample	e(s): 01-04	QC Batch ID	: WG41	4817-4	QC Sample: L1	007633-0	1 Clien	t ID: S	P-10-0	7-029
Total Organic Carbon (Rep1)	0.010	0.66	0.647	96		-	-		75-125			25
Total Organic Carbon (Rep2)	0.011	0.51	0.513	99		-	-		75-125			25

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1007633

Report Date:

06/16/10

Parameter	Na	tive Sar	nple	Duplicate Samp	ole Units	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab	Associated sample(s):	01-04	QC Batch ID:	WG414817-3	QC Sample:	L1007633-01	Client ID:	SP-10-07-029
Total Organic Carbon (Rep1)		0.010		0.011	%	10		25
Total Organic Carbon (Rep2)		0.011		0.012	%	9		25
General Chemistry - Westborough Lab	Associated sample(s)	: 01-04	QC Batch ID	: WG415070-1	QC Sample	: L1007633-01	Client ID	: SP-10-07-029
Solids, Total		83		83	%	0		20

Project Name:

Project Number: AC001

SHL TASK 0002

SHL TASK 0002

Lab Number:

L1007633

Project Number:

AC001

Report Date:

06/16/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG414817-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	113		75-125
Total Organic Carbon (Rep2)	96		75-125



Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1007633 Report Date: 06/16/10

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(*)
L1007633-01A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	BE-TI(180),DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),AS-TI(180),BA-TI(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),AG-TI(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),NI-TI(180),TL-TI(180),TS(7),CU-TI(180),DOD-SE-6010T(180),PB-TI(180),SB-TI(180),SE-TI(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),FE-TI(180),MN-
20.3	- 1 , 41	9.4.6	4 × 1		H .	40	TI(180),MS/MSD(),CA- TI(180),CD-TI(180),DOD-BE-
4 , ₹1 = 1	8 8	** or at			- +0		6010T(180),DOD-CR- 6010T(180),K-TI(180),NA- TI(180)

Project Name: SHL TASK 0002

Project Number: AC001

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1007633-01B	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	BE-TI(180),DOD-AS- 6010T(180),DOD-CA- 6010T(180),DOD-FE- 6010T(180),DOD-MG- 6010T(180),AS-TI(180),BA- TI(180),DOD-AG- 6010T(180),AG-TI(180),DOD-BA- 6010T(180),AG-TI(180),DOD-CU- 6010T(180),AG-TI(180),CR- TI(180),DOD-CD- 6010T(180),DOD-HG- 7471(28),DOD-NA- 6010T(180),NI-TI(180),TL- TI(180),TS(7),CU-TI(180),DOD-SE-6010T(180),PB-TI(180),SB- TI(180),SE-TI(180),ZN- TI(180),CO-TI(180),DOD-MN- 6010T(180),DOD-NI- 6010T(180),DOD-PB- 6010T(180),DOD-BB- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-CC- 6010T(180),DOD-CC- 6010T(180),DOD-CC- 6010T(180),DOD-CC- 6010T(180),DOD-CC- 6010T(180),DOD-CC- 6010T(180),DOD-CC- 6010T(180),DOD-CC- 6010T(180),DOD-CR-
L1007633-01C	Amber 250ml unpreserved	Α	N/A	3	Y	Present/Intact	A2-10C-9060-2REPS(28)
L1007633-01D	Amber 250ml unpreserved	Α	N/A	3	Υ	Present/Intact	A2-TOC-9060-2REPS(28)

Serial_No:06161022:04

Project Name: SHL TASK 0002

Project Number: AC001

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1007633-02A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	BE-TI(180),DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),AS-TI(180),BA-TI(180),DOD-AG-6010T(180),AG-TI(180),DOD-BA-6010T(180),AG-TI(180),CR-TI(180),DOD-CU-6010T(180),AC-TI(180),CR-TI(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-71(180),TS(7),CU-TI(180),CD-TI(180),CS-TI(180),CO-TI(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),CO-TI(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CD-TI(180),DOD-CD-TI(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),CD-TI(180),NA-TI(180),K-TI(180),NA-TI(180)
L1007633-02B	Amber 250ml unpreserved	Α	N/A	3	Y	Present/Intact	A2-TOC-9060-2REPS(28)



Serial_No:06161022:04

Project Name: SHL TASK 0002

Project Number: AC001

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1007633-03A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	BE-TI(180),DOD-AS- 6010T(180),DOD-CA- 6010T(180),DOD-FE- 6010T(180),DOD-MG- 6010T(180),AS-TI(180),BA- TI(180),DOD-AG- 6010T(180),AG-TI(180),DOD-BA-6010T(180),AG-TI(180),DOD-BA-6010T(180),DOD-CU- 6010T(180),AL-TI(180),CR- TI(180),DOD-CD- 6010T(180),DOD-HG- 7471(28),DOD-NA- 6010T(180),NI-TI(180),TL- TI(180),TS(7),CU-TI(180),DOD- SE-6010T(180),PB-TI(180),SB- TI(180),SE-TI(180),CN- TI(180),CO-TI(180),DOD-MN- 6010T(180),DOD-NI- 6010T(180),DOD-NI- 6010T(180),DOD-SB- 6010T(180),DOD-SB- 6010T(180),DOD-SB- 6010T(180),DOD-AL- 6010T(180),DOD-AL- 6010T(180),DOD-CO-
							6010T(180),DOD-V- 6010T(180),DOD-ZN- 6010T(180),FE-TI(180),HG- T(28),MG-TI(180),MN- TI(180),CA-TI(180),CD- TI(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180),K-TI(180),NA- TI(180)
L1007633-03B	Amber 250ml unpreserved	Α	N/A	3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

SHL TASK 0002

Project Number: AC001

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1007633-04A	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	BE-TI(180),DOD-AS- 6010T(180),DOD-CA- 6010T(180),DOD-FE- 6010T(180),DOD-MG- 6010T(180),AS-TI(180),BA- TI(180),DOD-AG- 6010T(180),AG-TI(180),DOD-BA- 6010T(180),AG-TI(180),DOD-CU- 6010T(180),AL-TI(180),CR- TI(180),DOD-CD- 6010T(180),DOD-HG- 7471(28),DOD-NA- 6010T(180),DOD-TL- 6010T(180),NI-TI(180),TL- TI(180),TS(7),CU-TI(180),DOD- SE-6010T(180),PB-TI(180),SB- TI(180),CO-TI(180),DOD-MN- 6010T(180),DOD-NI- 6010T(180),DOD-PB- 6010T(180),DOD-PB- 6010T(180),DOD-SB- 6010T(180),DOD-SB- 6010T(180),DOD-CO- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-ZN- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CR- 6010T(180),DOD-CR- 6010T(180),DOD-CR- 6010T(180),CD-TI(180),NA- TI(180)
L1007633-04B	Amber 250ml unpreserved	A	N/A	3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Serial_No:06161022:04

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1007633 **Report Date**: 06/16/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pН	deg C	Pres	Seal	Analysis(*)
L1007633-05A	Plastic 250ml HNO3 preserved	A	<2	3	Y	Present/Intact	BE-TI(180),DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),AS-TI(180),BA-TI(180),DOD-AG-6010T(180),AG-TI(180),DOD-BA-6010T(180),AG-TI(180),DOD-BA-6010T(180),AG-TI(180),CR-TI(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),NI-TI(180),TL-TI(180),CU-TI(180),DOD-SE-6010T(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),CD-TI(180),NA-

Container Comments

L1007633-05A



SHL TASK 0002

Lab Number:

L1007633

Project Number:

AC001

Report Date:

06/16/10

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.
- 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.
- 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

ALPHA

L1007633

Lab Number:

Project Name: SHL TASK 0002

Project Number: AC001 Report Date: 06/16/10

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: L1007633 **Project Number:** AC001 Report Date: 06/16/10

REFERENCES

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.



Certificate/Approval Program Summary

Last revised May 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: 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-T. (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, Cadmlum, 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-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 (<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, 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 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.)

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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.)

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.)

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.

Certificate/Approval Program Summary

Last revised June 1, 2010 - Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090, NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270.

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (<u>Inorganic Parameters</u>: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 3005A,3020, 6020, 245.1, 245.7, 1631E, 7470A, 7474, 9014, 120.1, 9050A, 180.1, SM4500H-B, 2320B, 2510B, 2540D,9040. Organic Parameters: EPA 3510C, 5030B, 9010B, 624, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

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	pecific Requirements/Comm dicate In Sample Specific Comments				e performed	m=0	3	1-5	3	100	7 /	1	/	/	1	11	100	1	Done Not neede	d	
(Note: All CAM met	thods for inorganic analyses require M	S every 20 soil	samples)	Lie e	1	497 1997		Metil	/	Metal	1	/	1/	1	//	1	11	- 0	Lab to do		9
		11			1-		1/5	1	01	1/	11	//	1	1	1	/	11		Lab to do	3	d
ALPHA Lab D \(\) Lab Use Only)	Sample ID	-	Colle Date	Time	Sample Matrix	Sampler's Initials	VF	1	7,5	7 /	//	/	/	1	11	//	/ .5		specific Co		4
7633,1	SP-10-07-029	2	5/24/10	0930	50.1	PV	×	×				-			1		M	sln	SD		1
2	SP-10-07-041		5/24/10	1010	Soil	PV	×	×										-			1
- 3	58-10-07-053	18	SIZILID	1030	Soil	PV	X	×													1
4			5/21/10	2	Soil	21	X	×					1								
1	PB-052110-0	-	Skillo		GW	PV	160	DAN	X			164									7
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S YOUR P	or CT RCP?	Relinquis	bed By:	9.6	-	e/Time	-		Re	celved	Ву:	_			Date/1		star	rt until Sar	iy ambigu submitted	ties are re	sol
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Дерна		CUSTODY	PAGEOF	- Date Rec'd in L	HERE STATES	THE RESERVE THE PERSON NAMED IN	LPHAJob#: L100 7 633
WESTBORO, MA TEL: 508-898-9220	TEL: 500 000 0000	Project Information	Section 200		mation - Data D	The second second	illing Information
FAX: 508-898-9193 Client Informatio	FAX: 508-822-3288	roject Name: SHL-Ta	520002	FAX LI ADEx	Add'l Delive		Same as Client info PO#:
A STATE OF THE PARTY		roject Location: Dever	SMA	Regulatory Re	equirements/Re	port Limits	
Solureis	n Consulting Inc P	roject #: A Coo	-	State /Fed Prog	ram Both	Criteria	See CAPP
odress: 985 3	som want st.	ALPHA Quote #:	Missain	MA MCP PRES	The second secon		EASONABLE CONFIDENCE PROTO
	18010 FIM, CIB	Turn-Around Time		XYes D No	Are MCP Anal	ytical Methods Requ	uired?
Phone: 508-7		801/2000	SEYes □ No □ Yes SENo			this SDG? (If yes see note in Comments) nce Protocols) Required?	
2002	39 - 3248	only confirmed if pre-approved!)	Far Salay 7	Ale CT NOT (I	/ / / /	rice Flotocois) Required?	
mail: PINCE		Date Due: All others norma	Time: ZALYC.	8/2	1///	1///	/ / SAMPLE HANDLING
If MS is required , ind	pecific Requirements/Comment dicate in Sample Specific Comments which nods for inorganic analyses require MS even	ts/Detection Limits: th samples and what tests MS to	be performed.	TOC MATERIES			Filtration Done Shot needed Lab to do Preservation
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Sampler' Matrix Initials	A PA			Lab to do (Please specify below) Sample Specific Comments
7633.1	57-10-07-029	5/21/10 0930	Soil PV	* * /			MSMSD
2	SP-10-07-041	5/21/10/010	Soil PV	* *			
3	58-10-07-053	5/21/10 103		XXII		8	
y.	SDUD-052110	5/21/10 0930	-	XX			
50.06	PB-052110-0	5/21/10/1125	GW PV	\$(280 X			
- 2	10 052110-0	OPINO NEO					
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			Continue	110			
PLEASE ANSWER	R QUESTIONS ABOVE	Container Type Preservative	11/17		2	Please print clearly legibly and con pletely. Samples (antinot be lidged in and turneround time clock will not start until any ambiguities are lesso.	
IC VOLID D	ROJECT	Relinquisted By:	Date/Time	1	ceived,By:	Date/Tim	in and turnaround time clock will no e start until any ambiguities are resol
		right the population Dy.					
	r CT RCP?	Henr	5/21/10/1100	Owton	Hert	5/21/201	All samples submitted are subject t



ANALYTICAL REPORT

Lab Number:

L1012496

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:

08/31/10

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:

L1012496

Report Date:

08/31/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1012496-01	SP-10-15-001	DEVENS, MA	08/12/10 10:30
L1012496-02	SP-10-15-004	DEVENS, MA	08/12/10 10:33
L1012496-03	SP-10-15-005	DEVENS, MA	08/12/10 10:35
L1012496-04	SP-10-15-010	DEVENS, MA	08/12/10 10:37
L1012496-05	SP-10-15-015	DEVENS, MA	08/12/10 10:40
L1012496-06	SP-10-15-017	DEVENS, MA	08/12/10 10:42
L1012496-07	SP-10-15-018	DEVENS, MA	08/12/10 10:45
L1012496-08	SP-10-15-020	DEVENS, MA	08/12/10 10:48
L1012496-09	SP-10-15-025	DEVENS, MA	08/12/10 10:50
L1012496-10	SP-10-15-028	DEVENS, MA	08/12/10 10:53
L1012496-11	SP-10-15-030	DEVENS, MA	08/12/10 10:55
L1012496-12	SP-10-15-035	DEVENS, MA	08/12/10 10:57
L1012496-13	SP-10-15-040	DEVENS, MA	08/12/10 11:00
L1012496-14	SP-10-15-055	DEVENS, MA	08/12/10 11:03
L1012496-15	SDUP6-081210	DEVENS, MA	08/12/10 10:50
L1012496-16	SDUP7-081210	DEVENS, MA	08/12/10 10:55
L1012496-17	RB2-081210-U	DEVENS, MA	08/12/10 11:15

Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1012496

Report Date:

08/31/10

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 replaces the report issued on August 25, 2010. The report has been amended to correct the MDL for Mercury.

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.

Total Metals

L1012496-07 has elevated detection limits for analytes, except Mercury, due to the dilution required by target analyte spectral interferences encountered during analysis.

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

001

Report Date:

08/31/10

Case Narrative (continued)

The WG427872-4 MS recovery, performed on L1012496-17, is above the acceptance criteria for Mercury (138%). A post digestion spike was performed with an acceptable recovery of 111%.

The WG427885-3/-4 MS/MSD recoveries for Aluminum (196%/0%), Arsenic (0%/0%) and Iron (0%/0%), performed on L1012496-11, are invalid because the sample concentrations are greater than four times the spike amount added.

The WG427885-3/-4 MS/MSD recoveries, performed on L1012496-11, are below the acceptance criteria for Antimony (74%/74%), Chromium (MSD at 78%), Magnesium (MSD at 58%) and Manganese (MSD at 58%). A post digestion spike was performed with acceptable recoveries of Antimony (103%), Chromium (96%), Magnesium (76%) and Manganese (92%). L1012496-11 is qualified as "J" for Chromium, Magnesium and Manganese.

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.

wholly M. James Michelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 08/31/10

ALPHA

METALS

L1012496

Project Name: SHL TASK 0002 Lab Number: **Project Number:** AC001

Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: L1012496-01 Client ID: SP-10-15-001 Sample Location: DEVENS, MA

Matrix: Soil Date Collected: 08/12/10 10:30 Date Received: 08/12/10 Field Prep: Not Specified

Percent Solids:	99%					Dilution	Date	B-4-	P ATE OF	Amelutical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough l	≟ab									
Aluminum, Total	3700		mg/kg	4.0	1.2	4	08/16/10 18:30	0 08/18/10 14:36	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.0	0.17	4	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Arsenic, Total	8.6		mg/kg	0.40	0.08	4	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Barium, Total	10		mg/kg	0.40	0.05	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,60108	MG
Beryllium, Total	0.34		mg/kg	0.20	0.01	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/16/10 18:30	0 08/18/10 14:36	EPA 3050B	1,6010B	MG
Calcium, Total	420		mg/kg	4.0	0.72	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Chromium, Total	6.8		mg/kg	0.40	0.04	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Cobalt, Total	2.7		mg/kg	0.80	0.14	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Copper, Total	5.9		mg/kg	0.40	0.04	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Iron, Total	5900		mg/kg	2,0	0.71	1	08/16/10 18:30	0 08/18/10 14:36	EPA 3050B	1,6010B	MG
Lead, Total	5.7		mg/kg	2.0	0.05	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Magnesium, Total	1400		mg/kg	4.0	0.46	1	08/16/10 18:30	0 08/18/10 14:36	EPA 3050B	1,6010B	MC
Manganese, Total	110		mg/kg	0.40	0.02	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 13:22	EPA 7471A	1,7471A	EZ
Nickel, Total	7.1		mg/kg	1.0	0.06	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Potassium, Total	470		mg/kg	100	35.	1	08/16/10 18:30	0 08/18/10 14:36	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.80	0.11	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Silver, Total	0.1	J	mg/kg	0.40	0.02	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	80	22.	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.80	0.24	. 1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Vanadium, Total	6.0	W	mg/kg	0.40	0.10	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG
Zinc, Total	13		mg/kg	2.0	0.06	1	08/16/10 18:30	08/18/10 14:36	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012496-02

SP-10-15-004 DEVENS, MA

08/12/10 10:33

Sample Location:

Percent Solids:

Soil

Date Collected: Date Received:

08/12/10

Matrix:

96%

Field Prep:

Not Specified

Parameter	Result	(

Percent Solids:	96%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	5500		mg/kg	4.2	1.2	1	08/16/10 18:30	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Antimony, Total	0.66	J	mg/kg	2.1	0.18	1	08/16/10 18:30	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Arsenic, Total	17		mg/kg	0.42	80.0	1	08/16/10 18:30	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Barium, Total	25		mg/kg	0.42	0.05	1	08/16/10 18:30	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Beryllium, Total	0.49		mg/kg	0.21	0.01	1	08/16/10 18:30	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Cadmium, Total	0.70		mg/kg	0.42	0.03	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Calcium, Total	930		mg/kg	4.2	0.75	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Chromium, Total	16		mg/kg	0.42	0.05	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Cobalt, Total	2.9		mg/kg	0.83	0.15	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Copper, Total	24		mg/kg	0.42	0.05	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Iron, Total	9400		mg/kg	2.1	0.74	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Lead, Total	110		mg/kg	2.1	0.05	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Magnesium, Total	2100		mg/kg	4.2	0.48	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Manganese, Total	120		mg/kg	0.42	0.02	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Mercury, Total	0.33		mg/kg	0.09	0.02	1	08/16/10 14:3	6 08/17/10 13:24	EPA 7471A	1,7471A	EZ
Nickel, Total	12		mg/kg	1.0	0.07	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Potassium, Total	810		mg/kg	100	37.	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Selenium, Total	0.19	J	mg/kg	0.83	0.12	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Silver, Total	1.3		mg/kg	0.42	0.03	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Sodium, Total	95		mg/kg	83	23.	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.83	0.25	1	08/16/10 18:3	0 08/18/10 14:42	'EPA 3050B'	1,6010B	MG
Vanadium, Total	12		mg/kg	0.42	0.10	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG
Zinc, Total	83		mg/kg	2.1	0.07	1	08/16/10 18:3	0 08/18/10 14:42	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012496

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012496-03
 Date Collected:
 08/12/10 10:35

 Client ID:
 SP-10-15-005
 Date Received:
 08/12/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Soil

Percent Solids: 98% Dilution Analytical Date Date Prep Parameter Factor Prepared Analyzed Method Method Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 4300 mg/kg 4.1 1.2 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Antimony, Total 0.47 J mg/kg 2.0 0.18 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Arsenic, Total 12 mg/kg 0.41 0.08 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Barium, Total 20 mg/kg 0.41 0.05 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1 1,6010B MG Beryllium, Total 0.34 mg/kg 0.20 0.01 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Cadmium, Total J 0.24 mg/kg 0.41 0.03 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1.6010B MG Calcium, Total 2700 mg/kg 4.1 0.74 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Chromium, Total 9.7 mg/kg 0.41 0.05 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Cobalt, Total 2.6 mg/kg 0.82 0.15 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Copper, Total 10 mg/kg 0.41 0.05 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Iron, Total 11000 mg/kg 2.0 0.73 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1 1,6010B MG Lead, Total 39 mg/kg 2.0 0.05 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Magnesium, Total 1600 mg/kg 4.1 0.48 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B ML Manganese, Total 230 mg/kg 0.41 0.02 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Mercury, Total 0.049 J mg/kg 0.07 0.01 1 08/16/10 14:36 08/17/10 13:29 EPA 7471A 1,7471A EZ Nickel, Total 9.3 1.0 mg/kg 0.07 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Potassium, Total 550 100 mg/kg 36. 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Selenium, Total 0.16 J mg/kg 0.82 0.11 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Silver, Total 0.71 mg/kg 0.41 0.03 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Sodium, Total 85 mg/kg 82 23. 1 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Thallium, Total ND mg/kg 0.82 0.25 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Vanadium, Total 8.8 mg/kg 0.41 0.10 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG Zinc, Total 55 mg/kg 2.0 0.07 08/16/10 18:30 08/18/10 14:47 EPA 3050B 1,6010B MG

SHL TASK 0002

Lab Number:

L1012496

Project Number:

Percent Solids:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-04

Client ID: Sample Location: SP-10-15-010 DEVENS, MA

Matrix:

Soil

83%

Date Collected:

08/12/10 10:37

Date Received: Field Prep:

08/12/10

Not Specified

eid Piep.	Not Specified

	Parameter Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
	Total Metals - West	borough L	ab									
	Aluminum, Total	4300		mg/kg	4.9	1.4	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Antimony, Total	0.35	J	mg/kg	2.5	0.21	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Arsenic, Total	11		mg/kg	0.49	0.10	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Barium, Total	16		mg/kg	0.49	0.06	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Beryllium, Total	0.27		mg/kg	0.25	0.02	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Cadmium, Total	0.14	J	mg/kg	0.49	0.04	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Calcium, Total	920		mg/kg	4.9	0.89	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Chromium, Total	11		mg/kg	0.49	0.05	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Cobalt, Total	2.7		mg/kg	0.98	0.18	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Copper, Total	8.2		mg/kg	0.49	0.05	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Iron, Total	8100		mg/kg	2.5	0.88	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Lead, Total	21		mg/kg	2.5	0.06	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Magnesium, Total	1800		mg/kg	4.9	0.57	i	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Manganese, Total	100		mg/kg	0.49	0.02	i i	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Mercury, Total	0.037	J	mg/kg	0.09	0.02	1	08/16/10 14:36	08/17/10 13:31	EPA 7471A	1,7471A	EZ
	Nickel, Total	11		mg/kg	1.2	0.08	Ť	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Potassium, Total	410		mg/kg	120	44	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Selenium, Total	0.16	J	mg/kg	0.98	0.14	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Silver, Total	12		mg/kg	0.49	0.03	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Sodium, Total	100		mg/kg	98	27.	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Thallium, Total	ND		mg/kg	0.98	0.30	1	08/16/10 18:30	08/18/10 15:15	EPÁ 3050B	1,6010B	MG'
8	Vanadium, Total	6.2	., 8	mg/kg	0.49	0.12	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG
	Zinc, Total	53		mg/kg	2.5	0.08	1	08/16/10 18:30	08/18/10 15:15	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID:

L1012496-05 SP-10-15-015

DEVENS, MA

Sample Location:

Soil

Date Collected:

08/12/10 10:40

Date Received: Field Prep:

08/12/10 Not Specified

Matrix: Percent Solids: 80%

Dilution Date Date Prep Analytical Factor Prepared Analyzed Method Method Parameter Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 3800 mg/kg 5.1 1.5 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Antimony, Total 0.41 J mg/kg 2.5 0.22 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Arsenic, Total 8.9 mg/kg 0.51 0.10 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Barium, Total 12 mg/kg 0.51 0.06 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Beryllium, Total 0.24 J mg/kg 0.25 0.02 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Cadmium, Total ND mg/kg 0.51 0.04 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Calcium, Total 830 mg/kg 5.1 0.92 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Chromium, Total 11 mg/kg 0.51 0.06 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Cobalt, Total 2.4 1.0 0.18 1 mg/kg 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Copper, Total 7.1 mg/kg 0.51 0.06 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Iron, Total 7000 mg/kg 2.5 0.90 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Lead, Total 12 mg/kg 2.5 0.07 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Magnesium, Total 1600 mg/kg 5.1 0.59 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MC 81 Manganese, Total 0.51 0.02 1 mg/kg 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Mercury, Total ND 0.08 0.02 1 mg/kg 08/16/10 14:36 08/17/10 13:33 EPA 7471A 1,7471A EZ Nickel, Total 9.6 1.3 0.08 1 mg/kg 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Potassium, Total 330 mg/kg 130 45 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Selenium, Total 0.17 J 1.0 0.14 1 mg/kg 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG Silver, Total 1.1 0.51 0.03 1 mg/kg 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG 120 Sodium, Total mg/kg 100 28. 1 08/16/10 18:30 08/18/10 15:21 EPA 3050B 1,6010B MG

1,6010B

1.6010B

1,6010B

MG

MG

MG

Thallium, Total

Zinc, Total

Vanadium, Total

ND

5.6

140

mg/kg

mg/kg

mg/kg

1.0

0.51

2.5

0.30

0.13

0.08

1

1

08/16/10 18:30 08/18/10 15:21 EPA 3050B

08/16/10 18:30 08/18/10 15:21 EPA 3050B

08/16/10 18:30 08/18/10 15:21 EPA 3050B

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012496-06 SP-10-15-017

Sample Location:

DEVENS, MA

Matrix:

Soil

Field Prep:

Date Collected:

08/16/10 18:30 08/18/10 15:26 EPA 3050B

08/12/10 10:42

Date Received:

08/12/10 Not Specified

Percent Solids:	93%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	Lab									
Aluminum, Total	4300		mg/kg	4.3	1.3	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Antimony, Total	0.64	J	mg/kg	2.2	0.18	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Arsenic, Total	6.2		mg/kg	0.43	0.09	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Barium, Total	41		mg/kg	0.43	0.05	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Beryllium, Total	0.30		mg/kg	0.22	0.01	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Cadmium, Total	0.26	J	mg/kg	0.43	0.03	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Calcium, Total	790		mg/kg	4.3	0.78	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Chromium, Total	8.4		mg/kg	0.43	0.05	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Cobalt, Total	2.1		mg/kg	0.86	0.16	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Copper, Total	11		mg/kg	0.43	0.05	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Iron, Total	12000		mg/kg	2.2	0.77	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Lead, Total	38		mg/kg	2.2	0.06	1	08/16/10 18:30	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Magnesium, Total	1400		mg/kg	4.3	0.50	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Manganese, Total	130		mg/kg	0.43	0.02	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Mercury, Total	0.17		mg/kg	0.09	0.02	1	08/16/10 14:30	6 08/17/10 13:35	EPA 7471A	1,7471A	EZ
Nickel, Total	9.0		mg/kg	1.1	0.07	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Potassium, Total	420		mg/kg	110	38.	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Selenium, Total	0.33	J	mg/kg	0.86	0.12	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Silver, Total	0.32	J	mg/kg	0.43	0.03	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Sodium, Total	100		mg/kg	86	24.	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.86	0.26	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG
Vanadium, Total	10	*	mg/kg	0.43	0.11	1	08/16/10 18:3	0 08/18/10 15:26	EPA 3050B	1,6010B	MG

2.2

mg/kg

0.07

1,6010B

MG

Zinc, Total

86

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-07

Client ID:

SP-10-15-018

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:45

Date Received:

08/12/10

Field Prep:

Not Specified

Percent Solids:	65%					Dilution	Date	Date	Davis .	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Prep Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	9300		mg/kg	30	9.0	5	08/16/10 18:30	0 08/20/10 13:24	EPA 3050B	1,6010B	MG
Antimony, Total	11	J	mg/kg	15	1.3	5	08/16/10 18:30	0 08/20/10 13:24	EPA 3050B	1,6010B	MG
Arsenic Total	25		ma/ka	3.0	0.61	5	00/16/10 10/2	0.00/20/40 42.24	EDA 2050B	1 60100	110

										75.45 V 254 A V 2
Total Metals - Wes	stborough La	b								
Aluminum, Total	9300		mg/kg	30	9.0	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Antimony, Total	11	J	mg/kg	15	1.3	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Arsenic, Total	25		mg/kg	3.0	0.61	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Barium, Total	120		mg/kg	3.0	0.37	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Beryllium, Total	ND		mg/kg	1.5	0.09	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	3.0	0.24	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Calcium, Total	9000		mg/kg	30	5.5	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Chromium, Total	69		mg/kg	3.0	0.34	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Cobalt, Total	14		mg/kg	6.1	1.1	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Copper, Total	310		mg/kg	3.0	0.34	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Iron, Total	140000		mg/kg	15	5.4	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Lead, Total	1200		mg/kg	15	0.40	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Magnesium, Total	600		mg/kg	30	3.5	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MC
Manganese, Total	1100		mg/kg	3.0	0.12	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Mercury, Total	0.44		mg/kg	0.12	0.03	1	08/16/10 14:36 08/17/10 13:37	EPA 7471A	1,7471A	EZ
Nickel, Total	75		mg/kg	7.6	0.49	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Potassium, Total	380	J	mg/kg	760	270	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Selenium, Total	2.9	J	mg/kg	6.1	0.85	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Silver, Total	1.2	J	mg/kg	3.0	0.18	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Sodium, Total	940	3-10	mg/kg	610	170	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Thallium, Total	ND .		mg/kg	6.1	1.8	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Vanadium, Total	6.4		mg/kg	3.0	0.76	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG
Zinc, Total	1000		mg/kg	15	0.49	5	08/16/10 18:30 08/20/10 13:24	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012496-08

SP-10-15-020

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:48

Date Received:

08/12/10

Field Prep:

Not Specified

Percent Solids:	88%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	ab									
Aluminum, Total	6000		mg/kg	4.5	1.3	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Antimony, Total	5.9		mg/kg	2.3	0.20	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Arsenic, Total	17		mg/kg	0.45	0.09	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Barium, Total	38		mg/kg	0.45	0.05	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Beryllium, Total	0.46		mg/kg	0.23	0.01	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Cadmium, Total	0.14	J	mg/kg	0.45	0.04	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Calcium, Total	3000		mg/kg	4.5	0.82	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Chromium, Total	14		mg/kg	0.45	0.05	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Cobalt, Total	3.8		mg/kg	0.91	0.16	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Copper, Total	14		mg/kg	0.45	0.05	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Iron, Total	9900		mg/kg	2.3	0.81	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Lead, Total	220		mg/kg	2,3	0.06	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Magnesium, Total	1800		mg/kg	4.5	0.53	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Manganese, Total	110		mg/kg	0.45	0.02	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Mercury, Total	0.067	J	mg/kg	0.09	0.02	1	08/16/10 14:36	08/17/10 13:38	EPA 7471A	1,7471A	EZ
Nickel, Total	12		mg/kg	1.1	0.07	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Potassium, Total	530		mg/kg	110	40,	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Selenium, Total	0.39	J	mg/kg	0.91	0.13	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Silver, Total	3.0		mg/kg	0.45	0.03	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Sodium, Total	93		mg/kg	91	25.	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.91	0.27	. 1.	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG.
Vanadium, Total	17		mg/kg	0.45	0.11	1	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG
Zinc, Total	110		mg/kg	2.3	0.07_	3	08/16/10 18:30	08/18/10 16:53	EPA 3050B	1,6010B	MG

L1012496

Project Number: AC001 Lab Number:

Project Number: AC001

Project Number: AC001

Project Number: AC001 Report Date: 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012496-09
 Date Collected:
 08/12/10 10:50

 Client ID:
 SP-10-15-025
 Date Received:
 08/12/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Soil

Percent Solids: 76% Dilution Date Date Prep Analytical Factor Prepared Analyzed Method Method Parameter Qualifier Result Units RL MDL Analyst Total Metals - Westborough Lab 4900 Aluminum, Total 1.5 1 mg/kg 5,2 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG 4.0 Antimony, Total 2.6 0.22 1 mg/kg 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Arsenic, Total 16 mg/kg 0.52 0.10 1 1,6010B 08/16/10 18:30 08/18/10 15:45 EPA 3050B MG Barium, Total 170 mg/kg 0.52 0.06 1 1,6010B 08/16/10 18:30 08/18/10 15:45 EPA 3050B MG Beryllium, Total 0.35 0.26 0.02 1 mg/kg 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Cadmium, Total 0.27 J 0.52 0.04 mg/kg 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Calcium, Total 4500 mg/kg 5.2 0.94 1 1,6010B 08/16/10 18:30 08/18/10 15:45 EPA 3050B MG Chromium, Total 35 0.52 0.06 1 mg/kg 1,6010B 08/16/10 18:30 08/18/10 15:45 EPA 3050B MG Cobalt, Total 4.5 1.0 0.19 1 mg/kg 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Copper, Total 38 mg/kg 0.52 0.06 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Iron, Total 24000 mg/kg 2.6 0.92 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Lead, Total 260 mg/kg 2.6 0.07 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Magnesium, Total 1900 mg/kg 52 0.60 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,60108 MC Manganese, Total 240 0.52 mg/kg 0.02 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Mercury, Total 0.32 0.09 0.02 mg/kg 1 08/16/10 14:36 08/17/10 13:44 EPA 7471A 1,7471A EZ Nickel, Total 20 0.08 mg/kg 1.3 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Potassium, Total 480 mg/kg 130 46. 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Selenium, Total 0.46 J mg/kg 1.0 0.14 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Silver, Total 0.80 0.52 0.03 1 mg/kg 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Sodium, Total 210 mg/kg 100 29. 1 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG Thallium, Total 08/16/10 18:30 08/18/10 15:45 EPA 3050B ND mg/kg 1.0 0.31 1 1,6010B MG Vanadium, Total 37 mg/kg 0.52 0.13 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1 1,6010B MG Zinc, Total 220 mg/kg 2.6 0.08 08/16/10 18:30 08/18/10 15:45 EPA 3050B 1,6010B MG

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-10

Client ID:

SP-10-15-028 DEVENS, MA

Sample Location:

Matrix:

Soil

Date Collected:

08/16/10 18:30 08/18/10 15:51 EPA 3050B

08/16/10 18:30 08/18/10 15:51 EPA 3050B

08/12/10 10:53

Date Received:

08/12/10

Field Prep:

Not Specified

11154411741											
Percent Solids:	80%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough l	_ab									
Aluminum, Total	4800		mg/kg	4.8	1.4	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.4	0.20	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Arsenic, Total	7.9		mg/kg	0.48	0.10	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Barium, Total	12		mg/kg	0.48	0.06	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Beryllium, Total	0.27		mg/kg	0.24	0.01	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.48	0.04	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Calcium, Total	340		mg/kg	4.8	0.87	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Chromium, Total	10		mg/kg	0.48	0.05	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Cobalt, Total	1.5		mg/kg	0.96	0.17	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Copper, Total	3.7		mg/kg	0.48	0.05	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Iron, Total	5800		mg/kg	2.4	0.85	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Lead, Total	5.3		mg/kg	24	0.06	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Magnesium, Total	2000		mg/kg	4.8	0.56	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Manganese, Total	58		mg/kg	0.48	0.02	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/16/10 14:36	6 08/17/10 13:46	EPA 7471A	1,7471A	EZ
Nickel, Total	6.3		mg/kg	1.2	0.08	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Potassium, Total	320		mg/kg	120	42	-1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.96	0.13	10	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Silver, Total	0.037	J	mg/kg	0.48	0.03	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Sodium, Total	27	J	mg/kg	96	26.	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg*	0.96	0.29	1	08/16/10 18:30	0 08/18/10 15:51	EPA 3050B	1,6010B	MG

0.48

2.4

mg/kg

mg/kg

0.12

0.08

1,6010B

1,6010B

MG

MG

Vanadium, Total

Zinc, Total

8.5

11

Project Name: SHL TASK 0002 Lab Number: L1012496 **Project Number:** AC001 Report Date:

08/31/10

08/12/10 10:55

SAMPLE RESULTS

Lab ID: L1012496-11 Client ID: SP-10-15-030

Sample Location: DEVENS, MA

Matrix: Soil Percent Solids 790/

Date Receiv	/ed;	08/12/	/10	
Field Prep:		Not S	pecified	
		-	Charles Control	

Date Collected:

Percent Solids:	U	78%					Dilution	Date	Date	Prep	Analytical	
Parameter	R	lesult	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Wes	stboro	ough L	.ab									
Aluminum, Total	3	600		mg/kg	5.2	1.5	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Antimony, Total	0	.71	J	mg/kg	2.6	0.22	1	08/16/10 18:30	08/18/10 14:14	EPA 3050B	1,6010B	MG
Arsenic, Total	3	9		mg/kg	0.52	0.10	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Barium, Total	7	.6		mg/kg	0.52	0.06	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Beryllium, Total	0	.32		mg/kg	0.26	0.02	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Cadmium, Total	N	ID		mg/kg	0.52	0.04	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Calcium, Total	3	90		mg/kg	5.2	0.94	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Chromium, Total	7	.0	J	mg/kg	0.52	0.06	.1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Cobalt, Total	2	.3		mg/kg	1.0	0.19	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Copper, Total	5	.6		mg/kg	0.52	0.06	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Iron, Total	7	800		mg/kg	2.6	0.93	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Lead, Total	5	.8		mg/kg	2.6	0.07	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Magnesium, Total	1	400	J	mg/kg	5.2	0.61	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MC
Manganese, Total	6	4	J	mg/kg	0.52	0.02	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Mercury, Total	N	ID		mg/kg	0.09	0.02	1	08/16/10 14:36	6 08/17/10 13:48	EPA 7471A	1,7471A	EZ
Nickel, Total	7	.8		mg/kg	1.3	0.08	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Potassium, Total	3	60		mg/kg	130	46.	.1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Selenium, Total	0	.27	J	mg/kg	1.0	0.15	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Silver, Total	0	.15	J	mg/kg	0.52	0.03	1	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Sodium, Total	5	1	J	mg/kg	100	29.	1	08/16/10 18:30	08/18/10 14:14	EPA 3050B	1,6010B	MG
Thallium, Total	N	ID	2 0	mg/kg	1.0	0.31	1	"08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Vanadium, Total	5	.6		mg/kg	0.52	0.13	10	08/16/10 18:30	0 08/18/10 14:14	EPA 3050B	1,6010B	MG
Zinc, Total	1	3		mg/kg	2.6	80.0	1	08/16/10 18:30	08/18/10 14:14	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002 Lab Number: **Project Number:** AC001

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012496-12 SP-10-15-035

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:57

Date Received: Field Prep:

08/12/10

Not Specified

Percent Solids:	81%					Dilution	Date	Date	Dies	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Prep Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	2900		mg/kg	4.9	1.4	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.4	0.21	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Arsenic, Total	15		mg/kg	0.49	0.10	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Barium, Total	6.4		mg/kg	0.49	0.06	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Beryllium, Total	0.23	J	mg/kg	0.24	0.02	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.49	0.04	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Calcium, Total	540		mg/kg	4.9	0.89	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Chromium, Total	5.9		mg/kg	0.49	0.05	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Cobalt, Total	2.0		mg/kg	0.98	0.18	1	08/16/10 18:30	0 08/18/10 15:56	EPA 3050B	1,6010B	MG
Copper, Total	5.0		mg/kg	0.49	0.05	1	08/16/10 18:30	0 08/18/10 15:56	EPA 3050B	1,6010B	MG
Iron, Total	5100		mg/kg	2.4	0.87	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Lead, Total	4.6		mg/kg	2.4	0.06	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	4.9	0.57	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Manganese, Total	62		mg/kg	0.49	0.02	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/16/10 14:36	6 08/17/10 13:53	EPA 7471A	1,7471A	EZ
Nickel, Total	6.6		mg/kg	1.2	0.08	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Potassium, Total	300		mg/kg	120	43.	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.98	0.14	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Silver, Total	0.034	J	mg/kg	0.49	0.03	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Sodium, Total	55	J	mg/kg	98	27.	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.98	0.29	1 -	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Vanadium, Total	4.4		mg/kg	0.49	0.12	4	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG
Zinc, Total	9.5		mg/kg	2.4	80.0	1	08/16/10 18:30	08/18/10 15:56	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-13

Client ID: Sample Location: SP-10-15-040

Matrix:

Soil

DEVENS, MA

Date Collected:

08/12/10 11:00

Date Received:

08/12/10

Field Prep: Not Specified

Percent Solids:	77%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough L	_ab									
Aluminum, Total	2700		mg/kg	5.2	1.5	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Antimony, Total	0.27	J	mg/kg	2.6	0,22	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Arsenic, Total	15		mg/kg	0.52	0.10	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Barium, Total	5.8		mg/kg	0.52	0.06	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Beryllium, Total	0.2	J	mg/kg	0.26	0.02	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.52	0.04	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Calcium, Total	450		mg/kg	5.2	0.94	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Chromium, Total	5.4		mg/kg	0.52	0.06	1	08/16/10 18:30	0 08/18/10 16:02	EPA 3050B	1,6010B	MG
Cobalt, Total	1.6		mg/kg	1.0	0.18	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,60108	MG
Copper, Total	4.1		mg/kg	0.52	0.06	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Iron, Total	6300		mg/kg	2.6	0.92	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Lead, Total	4.8		mg/kg	2.6	0.07	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,60108	MG
Magnesium, Total	1200		mg/kg	5.2	0.60	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MC
Manganese, Total	310		mg/kg	0.52	0.02	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.11	0.02	1	08/16/10 14:36	6 08/17/10 13:55	EPA 7471A	1,7471A	EZ
Nickel, Total	5.9		mg/kg	1,3	0.08	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Potassium, Total	270		mg/kg	130	46.	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	1.0	0.14	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Silver, Total	0.033	J	mg/kg	0.52	0.03	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Sodium, Total	41	J	mg/kg	100	28.	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	1.0	0.31	1.	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG
Vanadium, Total	4.0	100	mg/kg	0.52	0.13	1	08/16/10 18:30	0 08/18/10 16:02	EPA 3050B	1,60108	MG
Zinc, Total	9.7		mg/kg	2.6	0.08	1	08/16/10 18:30	08/18/10 16:02	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012496-14 SP-10-15-055

Sample Location:

DEVENS, MA

Matrix:

Soil

91%

Date Collected:

08/12/10 11:03 08/12/10

Date Received:

Field Prep: Not Specified

THICALL DATE	00,,										
Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	Lab									
Aluminum, Total	3600		mg/kg	4.4	1,3	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Antimony, Total	0.26	J	mg/kg	2.2	0.19	1	08/16/10 18:3	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Arsenic, Total	58		mg/kg	0.44	0.09	-1	08/16/10 18:3	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Barium, Total	14		mg/kg	0.44	0.05	1	08/16/10 18:3	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Beryllium, Total	0.78		mg/kg	0.22	0.01	1	08/16/10 18:3	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Cadmium, Total	0.19	J	mg/kg	0.44	0.04	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Calcium, Total	1500		mg/kg	4.4	0.80	1	08/16/10 18:3	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Chromium, Total	4.4		mg/kg	0.44	0.05	1	08/16/10 18:3	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Cobalt, Total	1.6		mg/kg	0.88	0.16	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Copper, Total	4.3		mg/kg	0.44	0.05	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Iron, Total	4100		mg/kg	2.2	0.78	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Lead, Total	21		mg/kg	2.2	0.06	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Magnesium, Total	590		mg/kg	4.4	0.51	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Manganese, Total	680		mg/kg	0.44	0.02	3	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:30	6 08/17/10 13:57	EPA 7471A	1,7471A	EZ
Nickel, Total	2.5		mg/kg	1.1	0.07	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Potassium, Total	1200		mg/kg	110	39.	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.88	0.12	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Silver, Total	1.2		mg/kg	0.44	0.03	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Sodium, Total	220		mg/kg	88	24.	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Thallium, Total .	ND.		mg/kg	0.88	0.26	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG.
Vanadium, Total	2.2	O~ 3	mg/kg	0.44	0.11	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG
Zinc, Total	48		mg/kg	2.2	0.07	1	08/16/10 18:30	0 08/18/10 16:07	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-15

Client ID:

SDUP6-081210

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Received:

Date Collected:

08/12/10 10:50

Field Prep:

08/12/10

Not Specified

Matrix.	2011										
Percent Solids:	76%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough L	ab.									
Aluminum, Total	5800		mg/kg	5.3	1.6	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Antimony, Total	2.5	J	mg/kg	2.6	0.23	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Arsenic, Total	18		mg/kg	0.53	0.10	4	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Barium, Total	140		mg/kg	0.53	0.06	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Beryllium, Total	0.54		mg/kg	0.26	0.02	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Cadmium, Total	0.26	J	mg/kg	0.53	0.04	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Calcium, Total	5600		mg/kg	5.3	0.95	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Chromium, Total	36		mg/kg	0.53	0.06	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Cobalt, Total	6.1		mg/kg	1.0	0.19	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Copper, Total	41		mg/kg	0.53	0.06	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Iron, Total	23000		mg/kg	2.6	0.94	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Lead, Total	390		mg/kg	2.6	0.07	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Magnesium, Total	2600		mg/kg	5.3	0.61	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MC
Manganese, Total	240		mg/kg	0.53	0.02	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Mercury, Total	0.15		mg/kg	0.09	0.02	1	08/16/10 14:30	6 08/17/10 13:58	EPA 7471A	1,7471A	EZ
Nickel, Total	23		mg/kg	1.3	0.08	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Potassium, Total	930		mg/kg	130	47	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Selenium, Total	0.44	J	mg/kg	1.0	0.15	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Silver, Total	0.72		mg/kg	0.53	0.03	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Sodium, Total	210		mg/kg	100	29.	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Thallium, Total	NÖ	*44	mg/kg	1.0	. 0.32	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG
Vanadium, Total	30	3	mg/kg	0.53	0.13	1	08/16/10 18:30	08/18/10 16:37	EPA 3050B	1,6010B	MG
Zinc, Total	380		mg/kg	2.6	0.08	1	08/16/10 18:30	0 08/18/10 16:37	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Date Collected:

08/12/10 10:55

Client ID: Sample Location:

L1012496-16 SDUP7-081210 DEVENS, MA

Date Received:

08/12/10

Matrix:

Lab ID:

Soil

Field	Prep:

Not Specified

Percent Solids:

80%

Percent Solids:	80%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	3000		mg/kg	5.0	1.5	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Antimony, Total	0.25	J	mg/kg	2.5	0.22	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Arsenic, Total	22		mg/kg	0.50	0.10	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Barium, Total	7.0		mg/kg	0.50	0.06	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Beryllium, Total	0.29		mg/kg	0.25	0.02	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.50	0.04	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Calcium, Total	490		mg/kg	5.0	0.91	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Chromium, Total	5.0		mg/kg	0.50	0.06	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Cobalt, Total	1.9		mg/kg	1.0	0.18	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Copper, Total	4.4		mg/kg	0.50	0.06	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Iron, Total	5600		mg/kg	2.5	0.89	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Lead, Total	4.6		mg/kg	2.5	0.07	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Magnesium, Total	1100		mg/kg	5.0	0.58	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Manganese, Total	50		mg/kg	0.50	0.02	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 14:00	EPA 7471A	1,7471A	EZ
Nickel, Total	6.3		mg/kg	1.2	0.08	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Potassium, Total	350		mg/kg	120	44.	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,60108	MG
Selenium, Total	ND		mg/kg	1.0	0.14	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Silver, Total	0.074	J	mg/kg	0,50	0.03	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Sodium, Total	40	J	mg/kg	100	28.	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Thallium, Total	ND	. 0	mg/kg	1.0	0.30	.1	08/16/10 18:31	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Vanadium, Total	4.6		mg/kg	0.50	0.12	1	08/16/10 18:30	0 08/18/10 16:42	EPA 3050B	1,6010B	MG
Zinc, Total	11		mg/kg	2.5	0.08	1	08/16/10 18:30	08/18/10 16:42	EPA 3050B	1,6010B	MG

Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-17

Client ID:

RB2-081210-U

Sample Location: Matrix:

DEVENS, MA Water

Date Collected:

08/12/10 11:15

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Wesi	tborough l	.ab									
Aluminum, Total	ND		ug/l	10.0	1.91	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Antimony, Total	0.43	J	ug/l	0.500	0.120	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Arsenic, Total	0.14	J	ug/l	0.500	0,113	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Barium, Total	0,14	J	ug/l	0.500	0.095	- 1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Beryllium, Total	ND		ug/l	0.500	0.059	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Cadmium, Total	ND		ug/l	0.500	0.059	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Calcium, Total	28.3	J	ug/l	100	12.6	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	ВМ
Chromium, Total	0.2	J	ug/l	0.500	0.186	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	ВМ
Cobalt, Total	ND		ug/l	0.500	0.053	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	ВМ
Copper, Total	0.14	J	ug/l	0.500	0.118	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Iron, Total	ND		ug/l	50.0	8.41	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	ВМ
Lead, Total	ND		ug/l	0.500	0.050	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	ВМ
Magnesium, Total	ND		ug/l	100	4.10	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	BN
Manganese, Total	ND		ug/l	1.00	0.136	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	BM
Mercury, Total	0.05228	J	ug/l	0.2000	0.0120	1	08/16/10 17:31	1 08/17/10 11:23	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		ug/l	0.500	0.180	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Potassium, Total	ND		ug/l	100	18.2	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	ВМ
Selenium, Total	ND		ug/l	1.00	0.406	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Silver, Total	ND		ug/l	0.500	0.085	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Sodium, Total	142		ug/I	100	18.2	i	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	вм
Thallium, Total	ND	1. *	ug/l	0:500	0.031	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		ug/l	0.500	0.077	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1,6020A	ВМ
Zinc, Total	ND		ug/l	5.00	1.62	1	08/14/10 14:45	5 08/19/10 02:35	EPA 3005A	1.6020A	ВМ

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westbo	orough Lab fo	r sample(s)	: 17 Ba	tch: W	342770	1-1				
Aluminum, Total	ND		ug/l	10.0	1.91	1	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ
Antimony, Total	ND		ug/l	0.500	0.120	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Arsenic, Total	0.13	J	ug/l	0.500	0.113	1	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ
Barium, Total	ND		ug/l	0.500	0.095	1	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ
Beryllium, Total	ND		ug/l	0.500	0.059	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Cadmium, Total	ND		ug/l	0.500	0.059	1	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ
Calcium, Total	ND		ug/l	100	12.6	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Chromium, Total	ND		ug/l	0.500	0.186	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Cobalt, Total	ND		ug/l	0.500	0.053	1	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ
Copper, Total	0.12	J	ug/l	0.500	0.118	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Iron, Total	ND		ug/l	50.0	8.41	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Lead, Total	ND		ug/l	0.500	0.050	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Magnesium, Total	ND		ug/l	100	4.10	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Manganese, Total	ND		ug/l	1.00	0 136	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Nickel, Total	ND		ug/l	0.500	0.180	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Potassium, Total	30.4	J	ug/l	100	18.2	1	08/14/10 14:45	08/19/10 01:28	1.6020A	вм
Selenium, Total	ND		ug/l	1.00	0.406	3	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ
Silver, Total	0.24	J	ug/l	0.500	0.085	1	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ
Sodium, Total	ND		ug/l	100	18.2	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Thallium, Total	ND		ug/l	0.500	0.031	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Vanadium, Total	ND		ug/l	0.500	0.077	1	08/14/10 14:45	08/19/10 01:28	1,6020A	вм
Zinc, Total	ND		ug/l	5.00	1.62	1	08/14/10 14:45	08/19/10 01:28	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Westbor	ough Lab for sample(s)	: 01-16	Batch:	WG42	7860-1				
Mercury, Total	ND	mg/kg	80.0	0.02	1	08/16/10 14:36	08/17/10 13:26	1,7471A	EZ

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Westboroug	gh Lab for sample(s): 17 Ba	tch: W	342787	72-1				
Mercury, Total	ND	ug/l	0.2000	0.0120	1	08/16/10 17:31	08/17/10 11:20	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Westborou	gh Lab fo	or sample(s):	01-16	Batch:	WG42	7885-1					
Aluminum, Total	ND		mg/kg	4.0	1.2	9	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Antimony, Total	0.22	J	mg/kg	20	0.17	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Barium, Total	ND		mg/kg	0.40	0.05	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Beryllium, Total	ND		mg/kg	0.20	0.01	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Calcium, Total	ND		mg/kg	4.0	0.72	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Chromium, Total	ND		mg/kg	0.40	0.04	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Cobalt, Total	ND		mg/kg	0.80	0.14	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Copper, Total ·	ND :	PERS BY	mg/kg	0.40	0.04	1	08/16/10 18:30	08/18/10:13:58	1,6010B	MG	
Iron, Total	ND '		mg/kg	2.0	0.71	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Lead, Total	ND		mg/kg	2.0	0.05	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Magnesium, Total	ND		mg/kg	4.0	0.46	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Manganese, Total	ND		mg/kg	0.40	0.02	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Nickel Total	ND		mg/kg	1.0	0.06	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Potassium, Total	ND		mg/kg	100	35.	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Selenium, Total	ND		mg/kg	0.80	0.11	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Silver, Total	0.081	J	mg/kg	0.40	0.02	1	08/16/10 18:30	08/18/10 13:58	1,60108	MG	
Sodium, Total	24	J	mg/kg	80	22.	1	08/16/10 18:30	08/18/10 13:58	1,60108	MG	
Thallium, Total	ND		mg/kg	0.80	0.24	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	
Vanadium, Total	ND		mg/kg	0.40	0.10	1	08/16/10 18:30	08/18/10 13:58	1,6010B	MG	



Project Name: SHL TASK 0002 Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Zinc, Total

ND

mg/kg

2.0 0.06 08/16/10 18:30 08/18/10 13:58 1,6010B

MG

Prep Information

Digestion Method: EPA 3050B

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 17	Batch:	WG427701-2					
Aluminum, Total	91		(4)		80-120			
Antimony, Total	97		4		80-120	-		
Arsenic, Total	98		1.4		80-120			
Barium, Total	96		1,2		80-120	4		
Beryllium, Total	102		14		80-120	-		
Cadmium, Total	107		~		80-120	*		
Calcium, Total	104				80-120	19		
Chromium, Total	94		0.40		80-120			
Cobalt, Total	100		4		80-120			
Copper, Total	101				80-120	*		
Iron, Total	103		2		80-120			
Lead, Total	100		141		80-120			
Magnesium, Total	98				80-120			
Manganese, Total	100		1.64		80-120			
Nickel, Total	100				80-120			
Potassium, Total	99				80-120			
Selenium, Total	102				80-120	*		
Silver, Total	96		1.4.1		80-120	*		
Sodium, Total	105				80-120			
Thallium, Total	93				80-120	- 2		
Vanadium, Total	98		4.5		80-120			

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Asso	ociated sample(s): 17 Ba	tch: WG427701-2			
Zinc, Total	102	•	80-120	- 6	
Total Metals - Westborough Lab Asso	ociated sample(s) 01-16	Batch: WG427860-2			
Mercury, Total	1114	÷	80-120		20
Total Metals - Westborough Lab Asso	ociated sample(s): 17 Bar	tch: WG427872-2			
Mercury, Total	112	4	80-120		20

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

arameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
otal Metals - Westborough La	b Associated sample(s): 01-16	Batch: WG427885-2			
Aluminum, Total	95		80-120		
Antimony, Total	99	49	80-120	1.4.1	
Arsenic, Total	103		80-120	4	
Barium, Total	97 🖫	1.4	80-120		
Beryllium, Total	104	1.6	80-120		
Cadmium, Total	102-	a	80-120	-	
Calcium, Total	94 *	/w	80-120		
Chromium, Total	.97		80-120	1.5	
Cobalt, Total	94	1.0	80-120	1.4	
Copper, Total	98		80-120		
Iron, Total	116	*	80-120	2	
Lead, Total	97	(a)	80-120		
Magnesium, Total	97		80-120		
Manganese, Total	99		80-120	4	
Nickel, Total	94	30	80-120		
Potassium, Total	87	*	80-120	40	
Selenium, Total	97	140	80-120	÷.	
Silver, Total	107	*	75-120		
Sodium, Total	102	(8)	80-120	41	
Thallium, Total	97 .		80-120	4.	
Vanadium, Total	99 .	· ·	80-120		

Lab Number:

L1012496

Report Date:

08/31/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab A	ssociated sample(s): 01-16	Batch: WG427885-2			
Zinc, Total	94		80-120		

Project Name:

Project Number:

SHL TASK 0002

AC001

Project Name:

SHL TASK 0002

= 2.

Project Number:

AC001

Lab Number:

L1012496

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery Qual	MSD Found	MSD %Recovery Qua	Recovery al Limits	RPD Qual	RPD Limits
Total Metals - Westborough	Lab Associated	sample(s): 17	QC Ba	atch ID: WG427701-4	QC Sam	ple: L1012496-17	Client ID: RB	2-081210-U	
Aluminum, Total	ND	2000 .	1800	90	1.0		80-120	1.	20
Antimony, Total	ND	500	456	91		,	80-120		20
Arsenic, Total	ND	120	113	94	-	4	80-120	(4)	20
Barium, Total	ND	2000	1830	92	39		80-120		20
Beryllium, Total	ND	50	49.1	98	(4)	4.	80-120	1/4	20
Cadmium, Total	ND	51.*	51.6	101			80-120	1.0	20
Calcium, Total	ND	10000	10200	102		9-	80-120		20
Chromium, Total	ND	200	186	93	(2)	2	80-120		20
Cobalt, Total	ND	500	502	100	-	19	80-120		20
Copper, Total	ND	250	253	101		191	80-120	0	20
Iron, Total	ND	1000	1020	102	4	.2	80-120		20
Lead, Total	ND	510	497	97	-	-	80-120	.9.	20
Magnesium, Total	ND	10000	9850	98	12	0	80-120	181	20
Manganese, Total	ND	500	497	99			80-120		20
Nickel, Total	ND	500	493	99			80-120	0.50	20
Potassium, Total	ND	10000	9780	98		4	80-120	(4)	20
Selenium, Total	ND	120	117	98		59	80-120	40	20
Silver, Total	ND	50	45.2	90			80-120		20
Sodium, Total	142	10000	10300	102	1,4	2	80-120		20
Thallium, Total	ND	120	108	90	*	3	80-120	121	20
Vanadium, Total	ND	500	487	97	*	-	80-120	TORT	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012496

Report Date:

Parameter	Native Sample	MS. Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough La	ab Associated	sample(s): 17	QC Ba	atch ID: WG427701-4	QC Sam	ple: L1012496-17	Client ID: RB2	2-081210-U	
Zinc, Total	ND	500	493	99	4		80-120	4	20
Total Metals - Westborough La	ab Associated	sample(s): 01	-16 QC	Batch ID: WG427860)-3 WG427	860-4 QC Sampl	e: L1012496-11	Client ID:	SP-10-15
Mercury, Total	ND	0.202	0.19	94	0.19	98	80-120	0	20
Total Metals - Westborough La	ab Associated	sample(s): 17	QC Ba	atch ID: WG427872-4	QC Sam	ple: L1012496-17	Client ID: RB2	2-081210-U	
Mercury, Total	ND	1	1,383	138 Q		4.	80-120	10	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012496

Report Date:

Parameter	Native Sample	MS - Added	MS Found	MS %Recovery		MSD Found		SD covery		Recovery Limits	RPD	RPD Limits
Total Metals - Westborough L 030	ab Associated	sample(s): 0	1-16 QC	Batch ID: WG4	127885-	3 WG42788	85-4	QC Samp	le: L	.1012496-11	Client ID:	SP-10-15
Aluminum, Total	3600	102	3800	196		3400		0		80-120	11	20
Antimony, Total	ND	25.5	19	74	Q	19		74	Q	80-120	0	20
Arsenic, Total	39	6.12	39	0		36		0		80-120	8	20
Barium, Total	7.6	102	100	90		100	19	90		80-120	0	20
Beryllium, Total	0.32	2.55	2.9	101		2.9	1	01		80-120	0	20
Cadmium, Total	ND	2.6	2.5	96		2.5	19	96		80-120	0	20
Calcium, Total	390	510	830	86		920	1	03		80-120	10	20
Chromium, Total	7.0	10.2	16	88		15		78	Q	80-120	6	20
Cobalt, Total	2.3	25.5	26	93		26	P	92		80-120	0	20
Copper, Total	5.6	12.7	18	97		17	U	89		80-120	6	20
Iron, Total	7800	51	6900	0		6300		0		80-120	9	20
Lead, Total	5.8	26	30	93		30	19	93		80-120	0	20
Magnesium, Total	1400	510	2000	118		1700	1	58	Q	80-120	16	20
Manganese, Total	64	25.5	89	98		79	19	58	Q	80-120	12	20
Nickel, Total	7.8	25.5	31	91		30	1,8	37		80-120	3	20
Potassium, Total	360	510	840	94		850	18	96		80-120	1	20
Selenium, Total	ND	6.12	6.0	98		6.2	1	01		80-120	3	20
Silver, Total	ND	15.3	16.	104		16	1	04		75-120	0	20
Sodium, Total	ND	510	570	112		580	1	13		80-120	2	20
Thallium, Total	ND	6.12-	5.5	90		5.7		93		80-120	4	20
Vanadium, Total	5.6	25.5	30	96		29	19	91		80-120	3	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012496

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found %	MSD Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westboroug 030	gh Lab Associated	sample(s):	01-16 Q0	Batch ID: WG4278	385-3 WG427885-	4. QC Sampl	e: L1012496-11	Client ID:	SP-10-15
Zinc, Total	13	25.5	36	90	35	86	80-120	3	20

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1012496

Report Date:

Project Name:	SHL TASK 0002		Batch Qu
Project Number:	AC001		
		4	
4 5 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			

Parameter	, N	ative Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sam	ple(s): 17	QC Batch ID:	WG427701-3 QC Sample:	L1012496-17	Client ID:	RB2-0812	210-U
Aluminum, Total		ND	ND	ug/l	NC		20
Antimony, Total	2 1	0.43J	3.25J	ug/l	NC		20
Arsenic, Total		0.14J	0.12J	ug/l	NC		20
Barium, Total	8	0.14J	0.12J	ug/l	NC		20
Beryllium, Total	-9	ND	ND	ug/l	NC		20
Cadmium, Total	1	ND	ND	ug/i	NC		20
Calcium, Total	- 2	28.3J	20.1J	ug/l	NC		20
Chromium, Total		0.2J	0.2J	ug/l	NC		20
Cobalt, Total	4	ND	ND	ug/l	NC		20
Copper, Total	4, 3	0.14J	0.19J	ug/l	NC		20
Iron, Total	: :	ND	ND	ug/l	NC		20
Lead, Total	5 24	ND	ND	ug/l	NC		20
Magnesium, Total		ND	ND	ug/l	NC		20
Manganese, Total	4.	ND	ND	ug/l	NC		20
Nickel, Total		ND	ND	ug/l	NC		20
Potassium, Total	20	ND	ND	ug/l	NC		20
Selenium, Total		ND	ND	ug/I	NC		20
Silver, Total		ND	ND	ug/l	NC		20
Sodium, Total		142.	134	ug/l	6		20

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1012496

SHL TASK 0002

AC001

Report Date:

08/31/10

Parameter		Native Sample	Duplic	ate Sample	Units	RPD	RPD	Limits
Total Metals - Westborough Lab	Associated sample(s): 17	7 QC Batch ID:	WG427701-3	QC Sample:	L1012496-17	Client ID:	RB2-081210-U	
Thallium, Total	#	ND		ND	ug/l	NC		20
Vanadium, Total	45.	ND		ND	ug/l	NC		20
Zinc, Total		ND		ND	ug/l	NC		20
Total Metals - Westborough Lab	Associated sample(s): 17	7 QC Batch ID:	WG427872-3	QC Sample:	L1012496-17	Client ID:	RB2-081210-U	
Mercury, Total		0.05228J	0	06709J	ug/l	NC		20

Project Name:

Project Number:

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-01

Client ID:

SP-10-15-001 Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:30

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.034		%	0.010	0.010	1	*	08/20/10 07:48	1,9060	NR
Total Organic Carbon (Rep2)	0.027		%	0.010	0.010	1	2	08/20/10 07:48	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	99		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name:

SHL TASK 0002

Project Number: AC001

Sample Location:

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-02

Client ID:

SP-10-15-004 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:33

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	1.50		%	0.010	0.010	1		08/20/10 07:48	1,9060	NR
Total Organic Carbon (Rep2)	1.81		%	0.010	0.010	1		08/20/10 07:48	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	96		%	0.10	NA	1	1.5	08/13/10 15:40	30,2540G	AC

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-03

Client ID:

SP-10-15-005

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:35

Date Received:

08/12/10

Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.742		%	0.010	0.010	1		08/20/10 07:48	1,9060	NR
Total Organic Carbon (Rep2)	0.618		%	0.010	0.010	1	~	08/20/10 07:48	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	98		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-04

Client ID:

SP-10-15-010 Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:37

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	1.24		%	0.010	0.010	1	2	08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	1,53		%	0.010	0.010	1	+	08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	83		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012496 Project Number: AC001 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: L1012496-05 SP-10-15-015 Client ID:

DEVENS, MA Sample Location:

Matrix: Soil Date Collected:

08/12/10 10:40

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.341		%	0.010	0.010	1	1.5	08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	0.499		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab	,								
Solids, Total	80		%	0.10	NA	1	- 4	08/13/10 15:40	30,2540G	AC

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-06

Client ID:

Sample Location:

SP-10-15-017 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:42

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	1.52		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	2.45		%	0.010	0.010	1	*	08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab	1								
Solids, Total	93		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-07

Client ID: Sample Location: SP-10-15-018 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:45

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	9.38		%	0.010	0.010	1	*	08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	7.54		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	65		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-08

Client ID:

SP-10-15-020

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:48

Date Received:

08/12/10

Field Prep:

Not Specified

Analytical Method Dilution Date Date Factor Prepared Analyzed Parameter Result Qualifier Units RL MDL Analyst Total Organic Carbon - Mansfield Lab Total Organic Carbon (Rep1) 4.47 % 0.010 0.010 08/21/10 06:20 1,9060 NR Total Organic Carbon (Rep2) 7.27 % 0.010 0.010 08/21/10 06:20 1,9060 NR General Chemistry - Westborough Lab Solids, Total 88 0.10 NA 08/13/10 15:40 30,2540G AC

Project Name:

SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-09

Client ID:

SP-10-15-025

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:50

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	5.45		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	4.80		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	76		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-10

Client ID:

SP-10-15-028

Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:53

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.473		%	0.010	0.010	1	4	08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	0.358		%	0.010	0.010	1	(*),	08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	80		%	0.10	NA	1	+	08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002 Lab Number:

L1012496

Project Number: AC001

Report Date: 08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-11

Client ID:

SP-10-15-030 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 10:55

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.188		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	0.038		%	0.010	0.010	1	+	08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	78		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-12

Client ID:

SP-10-15-035

Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:57

Date Received:

08/12/10

Field Prep:

Date epared	Date Analyzed	Analytical Method	A
cparca	Allalyzeu	Metrou	Analy

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.111		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	0.074		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab	i								
Solids, Total	81		%	0.10	NA	1	-	08/13/10 15:40	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-13

Client ID:

SP-10-15-040 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 11:00

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.056		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	0.026		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	77		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-14

Client ID:

SP-10-15-055 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 11:03

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.039		%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	0.027		%	0.010	0.010	1	*	08/21/10 06:20	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	91		%	0.10	NA	1	-	08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-15

Client ID:

SDUP6-081210

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:50

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifler	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab	- V								
Solids, Total	76		%	0.10	NA	1		08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012496

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012496-16

Client ID: Sample Location:

SDUP7-081210 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:55

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	80		%	0.10	NA	1	12	08/13/10 15:40	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab for sar	nple(s): 04-	-14 Bato	ch: WG	427740-1				
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1		08/21/10 06:20	1,9060	NR
Total Organic Carbon - Ma	ansfield Lab for sar	nple(s): 01-	-03 Bato	ch: WG	429019-1				
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		08/20/10 07:48	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1		08/20/10 07:48	1,9060	NR

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1012496

Report Date:

08/31/10

Parameter	1	Native Sa	mple	Duplicate Samp	le Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample	(s): 01-16	QC Batch II	D: WG427588-1	QC Sample:	L1012496-01	Client ID:	SP-10-15-001
Solids, Total		99		99	%	0		20

Project Name:

Project Number: AC001

SHL TASK 0002

Project Name:

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG427740-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	119		75-125
Total Organic Carbon (Rep2)	111		75-125

Project Name:

SHL TASK 0002

Lab Number:

L1012496

Project Number: AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG429019-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	103		75-125
Total Organic Carbon (Rep2)	116		75-125

Project Name: SHL TASK 0002

Lab Number: L1012496 Project Number: AC001 Report Date: 08/31/10

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 Information Temp **Container ID** deg C **Container Type** Cooler Pres Seal Analysis(*) pH L1012496-01A Amber 250ml unpreserved DOD-AS-6010T(180), DOD-CA-N/A 4.4 Present/Intact 6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180), DOD-K-6010T(180), DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180), DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180), DOD-PB-6010T(180), DOD-SB-6010T(180), DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180), DOD-ZN-6010T(180), DOD-BE-6010T(180), DOD-CR-6010T(180) L1012496-01X Glass 100ml unpreserved split N/A Present/Intact A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012496 Report Date: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	pН	deg C	Pres	Seal	Analysis(*)
L1012496-02A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012496-02X	Glass 100ml unpreserved split	Α	N/A	4.4	Υ	Present/Intact	A2-TOC-9060-2REPS(28)
L1012496-03A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-
2 6 12	1 4 5 7 7 12 1	103				it is a	6010T(180),DOD-V-
$\gamma^{-\frac{n}{2}} = \kappa_{n-1}$	+ 1/2 + 2/4"	* > - × /#•	1.,		41	1. * .	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012496-03X	Glass 100ml unpreserved split	Α	N/A	4.4	Υ	Present/Intact	A2-TOC-9060-2REPS(28)

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1012496

Report Date: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012496-04A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012496-04X	Glass 100ml unpreserved split	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012496-05A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NB-6010T(180),DOD-NB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-
							6010T(180),DOD-BE-
							6010T(180);DOD-CR- 6010T(180)
L1012496-05X	Glass 100ml unpreserved split	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012496 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012496-06A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CN-6010T(180),DOD-SB-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012496-06X	Glass 100ml unpreserved split	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012496-07A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-MG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-PB-6010T(180),DOD-B-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
\$ 000 p.c.	· in the second	100		3	0	$\hat{x}_{i} = \hat{x}_{i} - \hat{y}_{i} - \hat{y}_{i} + \hat{y}_{i}$	6010T(180),DOD-ZN-
A	· v Free Circs	n ve			•	104	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012496-07X	Glass 100ml unpreserved split	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1012496 **Report Date:** 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012496-08A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012496-08X	Glass 100ml unpreserved split	A	N/A	4.4	Υ	Present/Intact	A2-TOC-9060-2REPS(28)
L1012496-09A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
The state of		10 China	1 4	14.4	- 1	8 1 4 W	6010T(180),DOD-ZN- 6010T(180),DOD-BE-
	* 1	* * * *	76	1 (0.1)			6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012496-09X	Glass 100ml unpreserved split	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012496 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pН	deg C	Pres	Seal	Analysis(*)
L1012496-10A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-SB-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012496-10X	Glass 100ml unpreserved split	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012496-11A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG 6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-HG-7471(28),DOD-NA-6010T(180),TS(7),DOD-SE-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MI-6010T(180),DOD-MI-6010T(180),DOD-PB-6010T(180),DOD-BB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
F . (2)	1.542 0 1	2.0		4.	40× 3	9	6010T(180),DOD-ZN-
1, 1, 1	n on the second	*	3	- /	A >	W 4	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012496-11X	Amber 250ml unpreserved	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012496 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pН	deg C	Pres	Seal	Analysis(*)
L1012496-12A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012496-12X	Glass 100ml unpreserved split	Α	N/A	4.4	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012496-13A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-
	****** * * * * * * * * * * * * * * * *	0-7 ° 2-	A 12		-5 .	. # 1 # 1	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012496-13X	Glass 100ml unpreserved split	Α	N/A	4.4	Υ	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012496 **Report Date:** 08/31/10

Container Information Temp Container ID deg C Seal **Container Type** Cooler Pres pH Analysis(*) L1012496-14A Amber 250ml unpreserved N/A 4.4 Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180), DOD-MG-6010T(180), DOD-AG-6010T(180),DOD-K-6010T(180), DOD-BA-6010T(180), DOD-CU-6010T(180), DOD-CD-6010T(180), DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180), DOD-SB-6010T(180),DOD-AL-6010T(180), DOD-CO-6010T(180), DOD-V-6010T(180), DOD-ZN-6010T(180), DOD-BE-6010T(180),DOD-CR-6010T(180) L1012496-14X Glass 100ml unpreserved split N/A 4.4 Present/Intact A2-TOC-9060-2REPS(28) L1012496-15A Amber 250ml unpreserved A N/A 4.4 Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180), DOD-MG-6010T(180), DOD-AG-6010T(180),DOD-K-6010T(180), DOD-BA-6010T(180), DOD-CU-6010T(180) DOD-CD-6010 ((180), DOD-HG-7471(28),DOD-NA-6010T(180), DOD-TL 6010T(180),TS(7),DOD-SE-6010T(180), DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180), DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180), DOD-BE-6010T(180), DOD-CR-

6010T(180)

Project Number: AC001

Lab Number: L1012496 **Report Date**: 08/31/10

Container Info				Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012496-16A	Amber 250ml unpreserved	A	N/A	4.4	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-BA-6010T(180),DOD-HG-7471(28),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012496-17A	Plastic 500ml HNO3 preserved	A	<2	4.4	Y	Present/Intact	DOD-CD-6020T(180),DOD-NA-6020T(180),DOD-V-6020T(180),DOD-ZN-6020T(180),DOD-NI-6020T(180),DOD-SE-6020T(180),DOD-CA-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-HG-7470T(28),DOD-SB-6020T(180),DOD-AG-6020T(180),DOD-AG-6020T(180),DOD-AS-6020T(180),DOD-AS-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-BE-6020T(180),DOD-BE-6020T(180),DOD-HG-6020T(180),DOD-HG-6020T(180),DOD-HG-6020T(180),DOD-HG-6020T(180),DOD-FE-6020T(180),DOD-FE-6020T(180),DOD-FE-6020T(180),DOD-CU-
	ere a de la	. (1)		ă .	1.	* .	6020T(180),DOD-PB-
7 2 9	A PART AND	and the			· - 1	55.0	6020T(180)

Project Name:

SHL TASK 0002

Lab Number:

L1012496

Project Number:

AC001

Report Date:

08/31/10

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.

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: DU Report with "J" Qualifiers

ALPHA

Serial_No:08311012:15

 Project Name:
 SHL TASK 0002
 Lab Number:
 £1012496

 Project Number:
 AC001
 Report Date:
 08/31/10

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 Lab Number: L1012496

Project Number: AC001 Report Date: 08/31/10

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.

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 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, 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 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 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.

Certificate/Approval Program Summary

Last revised July 19, 2010 - Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, <u>Organic Parameters</u>: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (<u>Inorganic Parameters</u>: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. <u>Organic Parameters</u>: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 <u>Organic Parameters</u>: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. <u>Organic Parameters</u>: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

TEL: 508-898-9220 FAX: 508-898-9193 Client Information Client:	TEL: 508-822-9300 FAX: 508-822-3288	Project Informat	tion		-	Dame I Se	14 74 76		Con Maria		
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ANALYTICAL REPORT

Lab Number:

L1012501

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:

08/31/10

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: SH

SHL TASK 0002

Project Number: A

AC001

 Lab Number:
 L1012501

 Report Date:
 08/31/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1012501-01	SP-10-12-001	DEVENS, MA	08/12/10 08:30
L1012501-02	SP-10-12-005	DEVENS, MA	08/12/10 08:33
L1012501-03	SP-10-12-009	DEVENS, MA	08/12/10 08:35
L1012501-04	SP-10-12-015	DEVENS, MA	08/12/10 08:37
L1012501-05	SP-10-12-017	DEVENS, MA	08/12/10 08:40
L1012501-06	SP-10-12-025	DEVENS, MA	08/12/10 08:42
L1012501-07	SP-10-12-035	DEVENS, MA	08/12/10 08:45
L1012501-08	SP-10-12-040	DEVENS, MA	08/12/10 08:48
L1012501-09	SP-10-12-042	DEVENS, MA	08/12/10 08:50
L1012501-10	SP-10-12-052	DEVENS, MA	08/12/10 08:52
L1012501-11	SP-10-12-055	DEVENS, MA	08/12/10 08:55
L1012501-12	SP-10-13-050	DEVENS, MA	08/12/10 10:07
L1012501-13	SP-10-13-072	DEVENS, MA	08/12/10 10:18
L1012501-14	SP-10-13-075	DEVENS, MA	08/12/10 10:20
L1012501-15	SP-10-13-077	DEVENS, MA	08/12/10 10:22
L1012501-16	SP-10-13-083	DEVENS, MA	08/12/10 10:25
L1012501-17	SDUP2-081210	DEVENS, MA	08/12/10 08:45
L1012501-18	SDUP3-081210	DEVENS, MA	08/12/10 08:48
	and the second second		

Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1012501

Report Date:

08/31/10

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 replaces the report issued on August 23, 2010. The report has been amended to correct the MDL for Mercury and revise the Mercury result reported for sample L1012501-03.

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.

Metals

The WG427861-3/-4 MS/MSD RPD, performed on L1012501-12, is above the acceptance criteria for Mercury (24%). L1012501-12 should be qualified as "UJ" for Mercury.

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012501

Report Date:

08/31/10

Case Narrative (continued)

The WG427886-3/-4 MS/MSD recoveries for Aluminum (0%/0%) and Iron (226%/0%), performed on L1012501-12, are invalid because the sample concentration is greater than four times the spike amount added.

The WG427886-3/-4 MS/MSD recoveries, performed on L1012501-12, are below the acceptance criteria for Antimony (63%/67%) and Calcium (MSD at 72%). A post digestion spike was performed with acceptable recoveries of Antimony (100%) and Calcium (84%). L1012501-12 should be qualified as "UJ" for Antimony and "J" for Calcium.

The WG427886-3/-4 MS/MSD recoveries, performed on L1012501-12, are below the acceptance criteria for Magnesium (68%/22%) and Manganese (MSD at 76%). A post digestion spike was performed with unacceptable recoveries of Magnesium (68%) and Manganese (76%). This has been attributed to sample matrix. L1012501-12 is qualified as "J" for Magnesium and Manganese.

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: 08/31/10

METALS

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-01

Client ID:

SP-10-12-001

Sample Location: Matrix:

DEVENS, MA

Soil

Date Collected:

08/12/10 08:30

Date Received:

08/12/10

Field Prep:

Not Specified

Percent Solids:

97%

INO, IVIA				

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	3200		mg/kg	4.2	1.2	Ť	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Antimony, Total	0.35	J	mg/kg	2.1	0.18	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Arsenic, Total	5.4		mg/kg	0.42	0.08	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Barium, Total	13		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Beryllium, Total	0.24		mg/kg	0.21	0.01	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Calcium, Total	630		mg/kg	4.2	0.76	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Chromium, Total	6.4		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Cobalt, Total	2.5		mg/kg	0.84	0.15	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Copper, Total	40		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Iron, Total	7500		mg/kg	2.1	0.75	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Lead, Total	95		mg/kg	2.1	0.06	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Magnesium, Total	980		mg/kg	4.2	0.49	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Manganese, Total	110		mg/kg	0.42	0.02	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Mercury, Total	0.068	J	mg/kg	0.08	0.02	1	08/16/10 14:3	6 08/17/10 14:10	EPA 7471A	1,7471A	EZ
Nickel, Total	6.6		mg/kg	1.0	0.07	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Potassium, Total	350		mg/kg	100	37.	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Selenium, Total	0.32	J	mg/kg	0.84	0.12	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Silver, Total	0.2	J	mg/kg	0.42	0.03	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Sodium, Total	61	J	mg/kg	84	23.	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Thallium, Total	ND	A 1 F	mg/kg	0.84	0.25	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Vanadium, Total	6.2	6.	mg/kg	0.42	0.10	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG
Zinc, Total	95		mg/kg	2.1	0.07	1	08/16/10 17:5	5 08/17/10 10:51	EPA 3050B	1,6010B	MG

Lab Number:

SAMPLE RESULTS

L1012501

Project Number:

AC001

Report Date:

08/31/10

Lab ID: Client ID:

L1012501-02

SP-10-12-005

Date Collected: Date Received: 08/12/10 08:33 08/12/10

Matrix:

DEVENS, MA Soil

Field Prep:

Not Specified

Percent	Solids:
---------	---------

Sample Location:

Percent Solids:	89%					Dilution	Date	Date	Davis	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Prep Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	6900		mg/kg	4.5	1.3	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Antimony, Total	2.2	J	mg/kg	2.3	0.19	1	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Arsenic, Total	12		mg/kg	0.45	0.09	1	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Barium, Total	78		mg/kg	0.45	0.05	1	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Beryllium, Total	0.59		mg/kg	0.23	0.01	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.45	0.04	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Calcium, Total	4200		mg/kg	4.5	0.82	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Chromium, Total	18		mg/kg	0.45	0.05	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Cobalt, Total	5.8		mg/kg	0.90	0.16	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Copper, Total	260		mg/kg	0.45	0.05	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Iron, Total	31000		mg/kg	2.3	0.80	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Lead, Total	510		mg/kg	2.3	0.06	1	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Magnesium, Total	2200		mg/kg	4.5	0.52	1	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	M
Manganese, Total	410		mg/kg	0 45	0.02	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Mercury, Total	0.75		mg/kg	0.09	0.02	1	08/16/10 14:36	6 08/17/10 14:12	EPA 7471A	1,7471A	EZ
Nickel, Total	17		mg/kg	1.1	0.07	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Potassium, Total	890		mg/kg	110	40.	1	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Selenium, Total	0.84	J	mg/kg	0.90	0.13	1	08/16/10 17:59	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Silver, Total	0.82		mg/kg	0.45	0.03	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Sodium, Total	240		mg/kg	90	25.	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.90	0.27	1	08/16/10 17:5	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Vanadium, Total	16	135	mġ/kg	0.45	0.11	1 1 ·	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	MG
Zinc, Total	210		mg/kg	2.3	0.07	1	08/16/10 17:55	5 08/17/10 10:54	EPA 3050B	1,6010B	MG

Project Number: AC001 L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012501-03

Sample Location:

SP-10-12-009

Matrix:

DEVENS, MA

Soil

Date Collected:

Lab Number:

08/12/10 08:35

Date Received:

08/12/10

Field Prep:

Not Specified

Willia.	Oun										
Percent Solids:	98%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Wes	tborough L	.ab									
Aluminum, Total	7100		mg/kg	4.2	1.2	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Antimony, Total	0.22	J	mg/kg	2.1	0.18	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Arsenic, Total	13		mg/kg	0.42	0.08	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Barium, Total	9.5		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Beryllium, Total	0.42		mg/kg	0.21	0.01	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Calcium, Total	560		mg/kg	4.2	0.76	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Chromium, Total	9.8		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Cobalt, Total	2.6		mg/kg	0.84	0.15	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Copper, Total	7.3		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Iron, Total	8500		mg/kg	2.1	0.74	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Lead, Total	8.5		mg/kg	2.1	0.05	1	08/16/10 17:5	5 08/1 7/1 0 10:57	EPA 3050B	1,6010B	MG
Magnesium, Total	1900		mg/kg	4.2	0.48	T	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Manganese, Total	76		mg/kg	0.42	0.02	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:3	6 08/17/10 14:21	EPA 7471A	1,7471A	EZ
Nickel, Total	9.3		mg/kg	1.0	0.07	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Potassium, Total	410		mg/kg	100	37	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Selenium, Total	0.26	J	mg/kg	0.84	0.12	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Silver, Total	0.23	J	mg/kg	0.42	0.03	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	84	23.	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.84	0.25	1	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG
Vanadium, Total	8.4		mg/kg	0.42	0.10	· i ·	08/16/10 17:5	5 08/17/10 10:57	EPA 3050B	1,6010B	MG

2.1

0.07

mg/kg

1,6010B

MG

08/16/10 17:55 08/17/10 10:57 EPA 3050B

Zinc, Total

16

AC001

Lab Number:

L1012501

Project Number:

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-04

Client ID: Sample Location: SP-10-12-015 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:37

Date Received: Field Prep:

08/16/10 17:55 08/17/10 11:00 EPA 3050B

08/12/10 Not Specified

Percent Solids:	94%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough L	.ab									
Aluminum, Total	3400		mg/kg	4.3	1.3	(1)	08/16/10 17:55	5 08/17/10 11:00	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/16/10 17:55	5 08/17/10 11:00	EPA 3050B	1,6010B	MG
Arsenic, Total	9.6		mg/kg	0.43	0.09	1	08/16/10 17:55	5 08/17/10 11:00	EPA 3050B	1,6010B	MG
Barium, Total	10		mg/kg	0.43	0,05	1	08/16/10 17:55	5 08/17/10 11:00	EPA 3050B	1,6010B	MG
Beryllium, Total	0.35		mg/kg	0.21	0.01	1	08/16/10 17:55	5 08/17/10 11:00	EPA 3050B	1,6010B	MG

Barium, Total	10	mg/kg	0.43	0.05	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Beryllium, Total	0.35	mg/kg	0.21	0.01	it.	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Cadmium, Total	ND	mg/kg	0.43	0.03	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Calcium, Total	690	mg/kg	4.3	0.77	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Chromium, Total	5.6	mg/kg	0.43	0.05	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Cobalt, Total	2.2	mg/kg	0.85	0.15	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Copper, Total	6.6	mg/kg	0.43	0.05	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Iron, Total	5100	mg/kg	2.1	0.76	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,60108	MG
Lead, Total	7.9	mg/kg	2.1	0.06	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Magnesium, Total	990	mg/kg	4.3	0.50	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MC
Manganese, Total	62	mg/kg	0.43	0.02	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Mercury, Total	ND	mg/kg	0.07	0.01	1	08/16/10 14:36 08/17/10 14:23 EPA 7471A	1,7471A	EZ
Nickel, Total	5.6	mg/kg	1.1	0.07	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Potassium, Total	620	mg/kg	110	38.	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Selenium, Total	ND	mg/kg	0.85	0.12	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG
Silver, Total	0.59	mg/kg	0.43	0.03	1	08/16/10 17:55 08/17/10 11:00 EPA 3050B	1,6010B	MG

1,6010B

1,6010B

1,6010B

1,6010B

MG

MG

MG

MG

Sodium, Total

Thallium, Total.

Vanadium, Total

Zinc, Total

32

ND .

5.3

12

J

mg/kg

mg/kg

mg/kg

mg/kg

85

0.85

0.43

2.1

24.

0.26

0.11

0.07

1

Project Number: AC001 Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-05

Client ID: Sample Location:

SP-10-12-017 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:40

Date Received:

08/12/10

Field Prep:

Not Specified

Matin.	COII										
Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough l	_ab									
Aluminum, Total	2200		mg/kg	4.3	1.3	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Arsenic, Total	6.2		mg/kg	0.43	0.09	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Barium, Total	9.3		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Beryllium, Total	0.25		mg/kg	0.22	0.01	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	0.04	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Calcium, Total	700		mg/kg	4.3	0.78	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Chromium, Total	3.8		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,60108	MG
Cobalt, Total	1.5		mg/kg	0.86	0.16	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Copper, Total	7.9		mg/kg	0.43	0.05	-1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Iron, Total	3700		mg/kg	2.2	0.77	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Lead, Total	3.5		mg/kg	2.2	0.06	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Magnesium, Total	660		mg/kg	4.3	0.50	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Manganese, Total	43		mg/kg	0.43	0 02	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	80.0	0.02	41	08/16/10 14:36	6 08/17/10 14:24	EPA 7471A	1,7471A	EZ
Nickel, Total	3.2		mg/kg	1.1	0.07	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Potassium, Total	490		mg/kg	110	38.	1:	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.86	0.12	10	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Silver, Total	0.13	J	mg/kg	0.43	0.03	1	08/16/10 17:55	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Sodium, Total	51	J	mg/kg	86	24.	1	08/16/10 17:5	5 08/17/10 11:03	EPA 3050B	1,60108	MG
Thallium, Total	, ND.	A.	mg/kg	0.86	0.26	1	08/16/10 17:55	5 08/17/10 11:03	EPA 3050B	1,6010B	MG
Vanadium, Total	3.8		mg/kg	0.43	0.11	1	08/16/10 17:5	5 08/17/10 11:03	EPÀ 3050B	1,6010B	MG
Zinc, Total	8.5		mg/kg	2.2	0.07	1	08/16/10 17:55	08/17/10 11:03	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002 **Project Number:** AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012501-06 SP-10-12-025

Sample Location:

DEVENS, MA

Matrix:

12

mg/kg

2.2

0.07

Soil

Date Collected: Date Received: 08/12/10 08:42 08/12/10

Field Prep:

Not Specified

0) 100 100 100 1100											
Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough l	_ab									
Aluminum, Total	2600		mg/kg	4.3	1.3	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Arsenic, Total	9.0		mg/kg	0.43	0.09	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Barium, Total	9.2		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Beryllium, Total	0.25		mg/kg	0.22	0.01	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	0.04	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Calcium, Total	760		mg/kg	4.3	0.78	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Chromium, Total	4.8		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Cobalt, Total	2.4		mg/kg	0.87	0.16	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Copper, Total	4.7		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Iron, Total	5300		mg/kg	2.2	0.77	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Lead, Total	4.6		mg/kg	2.2	0.06	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Magnesium, Total	920		mg/kg	4.3	0.50	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MC
Manganese, Total	90		mg/kg	0 43	0.02	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0 08	0.02	1	08/16/10 14:36	6 08/17/10 14:32	EPA 7471A	1,7471A	EZ
Nickel, Total	5.8		mg/kg	1.1	0.07	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Potassium, Total	490		mg/kg	110	38.	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.87	0.12	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Silver, Total	0.13	J	mg/kg	0.43	0.03	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Sodium, Total	30	J	mg/kg	87	24.	1	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.87	0.26	1	. 08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1,6010B	MG [.]
Vanadium, Total	4.7		mg/kg	0.43	0.11	*1 -	08/16/10 17:5	5 08/17/10 11:06	EPA 3050B	1;6010B	MG

1,6010B

MG

08/16/10 17:55 08/17/10 11:06 EPA 3050B

Zinc, Total

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-07

Client ID: Sample Location: SP-10-12-035

Matrix:

Soil

DEVENS, MA

Date Collected:

08/12/10 08:45

Date Received:

08/12/10

Field Prep:

Not Specified

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Tatal Material Missa	0	CY.		3	0056						rinaryot
Total Metals - West	(borough i	_ab									
Aluminum, Total	3100		mg/kg	5.0	1.5	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.5	0.22	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Arsenic, Total	9.4		mg/kg	0.50	0.10	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Barium, Total	8.1		mg/kg	0.50	0.06	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Beryllium, Total	0.2	J	mg/kg	0.25	0.02	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.50	0.04	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Calcium, Total	480		mg/kg	5.0	0.91	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Chromium, Total	6.3		mg/kg	0.50	0.06	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Cobalt, Total	1.7		mg/kg	1.0	0.18	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Copper, Total	9.7		mg/kg	0.50	0.06	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Iron, Total	5300		mg/kg	2.5	0.90	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Lead, Total	16		mg/kg	2.5	0.07	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	5.0	0.58	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Manganese, Total	80		mg/kg	0.50	0 02	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Mercury, Total	0.43		mg/kg	0.09	0.02	1	08/16/10 14:3	6 08/17/10 14:34	EPA 7471A	1,7471A	EZ
Nickel, Total	5.9		mg/kg	1.3	0.08	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Potassium, Total	330		mg/kg	130	45.	110	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Selenium, Total	0.18	J	mg/kg	1.0	0.14	11	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Silver, Total	0.041	J	mg/kg	0.50	0.03	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Sodium, Total	40	J	mg/kg	100	28.	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Thallium, Total	ND.		mg/kg	1:0	0.30	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Vanadium, Total	4.9	3 0	mg/kg	0.50	0.13	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG
Zinc, Total	17		mg/kg	2.5	0.08	1	08/16/10 17:5	5 08/17/10 11:10	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002 Lab Number:
Project Number: AC001 Report Date:

 Lab Number:
 L1012501

 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012501-08

 Client ID:
 SP-10-12-040

 Sample Location:
 DEVENS, MA

Matrix: Soil
Percent Solids: 91%

EVENS, MA bil Date Collected: 08/12/10 08:48
Date Received: 08/12/10
Field Prep: Not Specified

Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	3000		mg/kg	4.4	1.3	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Antimony, Total	0.2	J	mg/kg	2.2	0.19	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Arsenic, Total	14		mg/kg	0.44	0.09	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Barium, Total	7,7		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Beryllium, Total	0.21	J	mg/kg	0.22	0.01	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.44	0.04	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,60108	MG
Calcium, Total	660		mg/kg	4.4	0.80	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Chromium, Total	7.0		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Cobalt, Total	1.8		mg/kg	0.88	0.16	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Copper, Total	12		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Iron, Total	5200		mg/kg	2.2	0.79	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Lead, Total	12		mg/kg	2.2	0.06	1	08/16/10 17:59	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Magnesium, Total	1100		mg/kg	4.4	0.51	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MC
Manganese, Total	70		mg/kg	0.44	0.02	1	08/16/10 17:5	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Mercury, Total	0.22		mg/kg	0.08	0.02	- 1	08/16/10 14:36	6 08/17/10 14:36	EPA 7471A	1,7471A	EZ
Nickel, Total	5.8		mg/kg	1.1	0.07	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Potassium, Total	360		mg/kg	110	39	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.88	0.12	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.44	0.03	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Sodium, Total	50	J	mg/kg	88	24.	1	08/16/10 17:58	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Thallium, Total	ND	W. # 8	· mg/kg .	0.88	0.26	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Vanadium, Total	4.6		mg/kg	0.44	0.11	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG
Zinc, Total	15		mg/kg	2.2	0.07	1	08/16/10 17:55	5 08/17/10 11:13	EPA 3050B	1,6010B	MG

08/12/10 08:50

Not Specified

08/12/10

Project Name: SHL TASK 0002 Lab Number:
Project Number: AC001 Report Date:

umber: L1012501 t Date: 08/31/10

Date Collected:

SAMPLE RESULTS

 Lab ID:
 L1012501-09

 Client ID:
 SP-10-12-042

 Sample Location:
 DEVENS, MA

Date Received: NS, MA Field Prep:

Matrix: Soil Percent Solids: 86%

Percent Solids:	86%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	3100		mg/kg	4.7	1.4	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.3	0.20	1	08/16/10 17:55	6 08/17/10 11:16	EPA 3050B	1,6010B	MG
Arsenic, Total	29		mg/kg	0.47	0.09	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Barium, Total	8.6		mg/kg	0.47	0.06	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Beryllium, Total	0.31		mg/kg	0.23	0.01	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.47	0.04	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Calcium, Total	560		mg/kg	4.7	0.84	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Chromium, Total	5.7		mg/kg	0.47	0.05	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Cobalt, Total	1.7		mg/kg	0.93	0.17	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Copper, Total	4.0		mg/kg	0.47	0.05	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Iron, Total	4900		mg/kg	2.3	0.83	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Lead, Total	4.4		mg/kg	2.3	0.06	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Magnesium, Total	1100		mg/kg	4.7	0.54	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Manganese, Total	84		mg/kg	0.47	0.02	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 14:38	EPA 7471A	1,7471A	EZ
Nickel, Total	5.9		mg/kg	1.2	80.0	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Potassium, Total	480		mg/kg	120	41.	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.93	0.13	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.47	0.03	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	93	26.	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Thallium, Total	ND .	A 284	mg/kg	0.93	0.28	127	.08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Vanadium, Total	5.0		mg/kg	0.47	0.12	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG
Zinc, Total	12		mg/kg	2.3	0.08	1	08/16/10 17:55	5 08/17/10 11:16	EPA 3050B	1,6010B	MG

Project Number: AC001 Lab Number:

L1012501

Report Date:

Date Collected:

08/31/10

08/12/10 08:52

SAMPLE RESULTS

Lab ID:

L1012501-10 SP-10-12-052

Client ID: Sample Location:

DEVENS, MA

Matrix:

Soil

Date Received: 08/12/10 Field Prep: Not Specified

Percent Solids: 89%

Percent Solids:	89%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	Lab									
Aluminum, Total	2800		mg/kg	4.3	1.3	4	08/16/10 17:59	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/16/10 17:59	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Arsenic, Total	26		mg/kg	0.43	0.09	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Barium, Total	8.4		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Beryllium, Total	0.28		mg/kg	0.22	0.01	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	0.04	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Calcium, Total	480		mg/kg	4.3	0.78	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Chromium, Total	10		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Cobalt, Total	2.0		mg/kg	0.87	0.16	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Copper, Total	5.4		mg/kg	0.43	0.05	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Iron, Total	5200		mg/kg	2.2	0.77	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Lead, Total	4.8		mg/kg	2.2	0.06	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Magnesium, Total	970		mg/kg	4.3	0.50	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MC
Manganese, Total	120		mg/kg	0.43	0.02	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Mercury, Total	0.017	J	mg/kg	0.08	0.02	1	08/16/10 14:30	6 08/17/10 14:39	EPA 7471A	1,7471A	EZ
Nickel, Total	5.9		mg/kg	1.1	0.07	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Potassium, Total	460		mg/kg	110	38.	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Selenium, Total	0.13	J	mg/kg	0.87	0.12	1	08/16/10 17:59	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.43	0.03	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Sodium, Total	66	J	mg/kg	87	24.	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Thallium, Total	ND **		mg/kg	0.87	' 0.26	* 1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Vanadium, Total	4.3		mg/kg	0.43	0.11	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG
Zinc, Total	11		mg/kg	2.2	0.07	1	08/16/10 17:5	5 08/17/10 11:19	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012501

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012501-11

 Client ID:
 SP-10-12-055

 Sample Location:
 DEVENS, MA

 Matrix:
 Soil

Date Collected: 08/12/10 08:55

Date Received: 08/12/10

Field Prep: Not Specified

Percent Solids:	81%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	2900		mg/kg	4.8	1.4	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.4	0.21	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Arsenic, Total	34		mg/kg	0.48	0.10	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Barium, Total	6.3		mg/kg	0.48	0.06	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Beryllium, Total	0.28		mg/kg	0.24	0.01	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.48	0.04	-1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Calcium, Total	330		mg/kg	4.8	0.87	4	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Chromium, Total	6.7		mg/kg	0.48	0.05	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Cobalt, Total	1.6		mg/kg	0.96	0.17	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Copper, Total	4.5		mg/kg	0.48	0.05	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Iron, Total	4600		mg/kg	2.4	0.86	-1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Lead, Total	4.1		mg/kg	2.4	0.06	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	4.8	0.56	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Manganese, Total	57		mg/kg	0.48	0.02	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:3	6 08/17/10 14:41	EPA 7471A	1,7471A	EZ
Nickel, Total	6.1		mg/kg	1.2	0.08	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Potassium, Total	330		mg/kg	120	42.	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.96	0.13	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Silver, Total	0.029	J	mg/kg	0.48	0.03	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	96	27	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Thallium, Total	ND	- 113	mg/kg	0.96	0.29	1 +	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG
Vanadium, Total	4.6		mg/kg	0.48	0.12	1	08/16/10 17:5	5'08/17/10 11:34	EPA 3050B	1,6010B	MG
Zinc, Total	11		mg/kg	2.4	0.08	1	08/16/10 17:5	5 08/17/10 11:34	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002

AC001

Lab Number:

L1012501

Project Number:

Report Date:

08/31/10

Lab ID: Client ID:

Sample Location:

L1012501-12

SP-10-13-050 DEVENS, MA Date Collected: Date Received:

08/16/10 17:55 08/17/10 10:25 EPA 3050B

08/12/10 10:07 08/12/10

Matrix:

Soil

Field Prep:

Percent Solids:

90%

Not Specified

i cicciit collus.	30 70					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough L	ab									
Aluminum, Total	3200		mg/kg	4.4	1.3	1	08/16/10 17:5	5 08/17/10 10:25	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2,2	0.19	1	08/16/10 17:5	5 08/17/10 10:25	EPA 3050B	1,6010B	MG
Arsenic, Total	1,3		mg/kg	0.44	0.09	1	08/16/10 17:5	5 08/17/10 10:25	EPA 3050B	1,6010B	MG
Barium, Total	8.5		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 10:25	EPA 3050B	1,6010B	MG

SAMPLE RESULTS

Arsenic, Total	1,3		mg/kg	0.44	0.09	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Barium, Total	8.5		mg/kg	0.44	0.05	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Beryllium, Total	0.27		mg/kg	0.22	0.01	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.44	0.04	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Calcium, Total	480	J	mg/kg	4.4	0.79	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Chromium, Total	6.9		mg/kg	0.44	0.05	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Cobalt, Total	2.3		mg/kg	0.88	0.16	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Copper, Total	4.5		mg/kg	0.44	0.05	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Iron, Total	4000		mg/kg	2.2	0.78	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Lead, Total	3.8		mg/kg	2.2	0.06	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Magnesium, Total	1400	J	mg/kg	4.4	0.51	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MC
Manganese, Total	44	J	mg/kg	0.44	0.02	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	80.0	0 02	1	08/16/10 14:36 08/17/10 14:43 EPA 7471A	1,7471A	EZ
Nickel, Total	6.7		mg/kg	1.1	0.07	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Potassium, Total	400		mg/kg	110	39.	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,60108	MG
Selenium, Total	ND		mg/kg	0.88	0.12	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.44	0.03	1	08/16/10 17:55 08/17/10 10:25 EPA 3050B	1,6010B	MG

1,6010B

1,6010B

1,6010B

1,6010B

MG

MG

MG

MG

Sodium, Total

Thallium, Total

Vanadium, Total

Zinc, Total

ND

ND '

5.0

12

mg/kg

mg/kg

mg/kg

mg/kg

88

0.88

0.44

2.2

24.

0.11

0.07

0.26 -

Project Name: SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-13 SP-10-13-072

DEVENS, MA

Client ID: Sample Location: Date Collected: Date Received:

08/12/10

Matrix:

94%

Field Prep:

Not Specified

08/12/10 10:18

Percent Solids:

Soil

Percent Solids:	94%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	3600		mg/kg	4.2	1.2	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Antimony, Total	0.22	J	mg/kg	2.1	0.18	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Arsenic, Total	7.6		mg/kg	0.42	80.0	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Barium, Total	8.6		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Beryllium, Total	0.26		mg/kg	0.21	0.01	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Calcium, Total	680		mg/kg	4.2	0.76	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Chromium, Total	8.2		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Cobalt, Total	1.8		mg/kg	0.84	0.15	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Copper, Total	5.5		mg/kg	0.42	0.05	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Iron, Total	9200		mg/kg	2.1	0.75	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Lead, Total	7.3		mg/kg	2.1	0.06	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Magnesium, Total	1600		mg/kg	4.2	0 49	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Manganese, Total	130		mg/kg	0.42	0.02	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/16/10 14:3	6 08/17/10 14:49	EPA 7471A	1,7471A	EZ
Nickel, Total	7.6		mg/kg	1.0	0.07	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Potassium, Total	390		mg/kg	100	37.	-1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.84	0.12	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Silver, Total	0.1	J	mg/kg	0.42	0.03	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Sodium, Total	47	J	mg/kg	84	23.	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Thallium, Total	ND	1 1	mg/kg	0.84	0.25	. 1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Vanadium, Total	6.0		mg/kg	0.42	0.10	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG
Zinc, Total	13		mg/kg	2.1	0.07	1	08/16/10 17:5	5 08/17/10 11:37	EPA 3050B	1,6010B	MG

08/12/10 10:20

Not Specified

08/12/10

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012501

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012501-14
 Date Collected:

 Client ID:
 SP-10-13-075
 Date Received:

 Sample Location:
 DEVENS, MA
 Field Prep:

 Matrix:
 Soil

Percent Solids: 90% Dilution Analytical Date Date Prep Parameter Factor Prepared Analyzed Method Method Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 4000 mg/kg 4.6 1.4 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Antimony, Total ND 2.3 0.20 mg/kg 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Arsenic, Total 13 0.09 mg/kg 0.46 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Barium, Total 10 0.06 mg/kg 0.46 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Beryllium, Total 0.34 mg/kg 0.23 0.01 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Cadmium, Total ND 0.46 0.04 mg/kg 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Calcium, Total 560 mg/kg 4.6 0.82 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Chromium, Total 9.3 0.46 0.05 mg/kg 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Cobalt, Total 2.3 mg/kg 0.91 0.16 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Copper, Total 5.9 0.46 0.05 mg/kg 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Iron, Total 7300 2.3 0.81 mg/kg 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Lead, Total 6.6 mg/kg 23 0.06 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Magnesium, Total 1700 mg/kg 4.6 0.53 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B M Manganese, Total 170 mg/kg 0.46 0.02 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Mercury, Total ND mg/kg 0.09 0.02 1 08/16/10 14:36 08/17/10 14:54 EPA 7471A 1.7471A EZ Nickel, Total 8.0 mg/kg 1.1 0.07 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1.6010B MG Potassium, Total 600 mg/kg 110 40. 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Selenium, Total ND mg/kg 0.91 0.13 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Silver, Total 0.28 J mg/kg 0.46 0.03 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Sodium, Total 52 J mg/kg 91 25. 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG Thallium, Total ND 0.27 mg/kg 0.91 1 08/16/10 17:55 08/17/10 11:40 EPA 3050B 1,6010B MG

0.11

0.07

1

1

08/16/10 17:55 08/17/10 11:40 EPA 3050B

08/16/10 17:55 08/17/10 11:40 EPA 3050B

0.46

2.3

1,6010B

1,6010B

MG

MG

Vanadium, Total

Zinc, Total

7.2

16

mg/kg

mg/kg

Project Name: SHLT

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-15

Client ID: Sample Location: SP-10-13-077 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:22

Date Received:

08/12/10

Field Prep:

Percent Solids:	89%

Percent Solids:	89%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough I	_ab									
Aluminum, Total	2700		mg/kg	4.5	1.3	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Arsenic, Total	14		mg/kg	0.45	0.09	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Barium, Total	9.9		mg/kg	0.45	0.05	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Beryllium, Total	0.49		mg/kg	0.22	0.01	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.45	0.04	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Calcium, Total	1100		mg/kg	4.5	0.81	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Chromium, Total	6.2		mg/kg	0.45	0.05	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Cobalt, Total	1.7		mg/kg	0.90	0.16	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Copper, Total	3.4		mg/kg	0.45	0.05	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Iron, Total	4800		mg/kg	2.2	0.80	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Lead, Total	9.4		mg/kg	2.2	0.06	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Magnesium, Total	1100		mg/kg	4.5	0.52	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Manganese, Total	230		mg/kg	0.45	0.02	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.07	0.02	-1	08/16/10 14:3	6 08/17/10 14:56	EPA 7471A	1,7471A	EZ
Nickel, Total	5.2		mg/kg	1.1	0.07	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Potassium, Total	610		mg/kg	110	40.	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.90	0.12	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Silver, Total	0.093	J	mg/kg	0.45	0.03	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Sodium, Total	52	J	mg/kg	90	25,	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Thallium, Total	ND .		mg/kg	0.90	0.27	. 1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Vanadium, Total	4.5	13	mg/kg "	0.45	0.11	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG
Zinc, Total	22		mg/kg	2.2	0.07	1	08/16/10 17:5	5 08/17/10 11:44	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002

AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID:

Project Number:

L1012501-16 SP-10-13-083

Sample Location: Matrix:

Soil

2,5

2000

ND

2.2

420

ND

2.1

85

DEVENS, MA

Date Collected: 08/12/10 10:25 Date Received: 08/12/10 Field Prep: Not Specified

08/16/10 17:55 08/17/10 11:47 EPA 3050B

IVICITIA.	0011										
Percent Solids:	91%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	3800		mg/kg	4.4	1.3	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	. 1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Arsenic, Total	23		mg/kg	0.44	0.09	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Barium, Total	15		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Beryllium, Total	0.94		mg/kg	0.22	0.01	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,60108	MG
Cadmium, Total	0.3	J	mg/kg	0.44	0.04	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Calcium, Total	1600		mg/kg	4.4	0.80	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Chromium, Total	6.0		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Cobalt, Total	1.4		mg/kg	0.88	0.16	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Copper, Total	23		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Iron, Total	5700		mg/kg	2.2	0.78	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Lead, Total	49		mg/kg	2.2	0.06	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Magnesium, Total	510		mg/kg	4.4	0.51	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MC
Manganese, Total	600		mg/kg	0.44	0.02	1	08/16/10 17:5	5 08/17/10 11:47	EPA 3050B	1,6010B	MG
Mercury. Total	ND		mg/kg	0 08	0.02		08/16/10 14:3	6 08/17/10 14:58	EPA 7471A	1,7471A	EZ

0.07

39.

0.12

0.03

24.

0.26

0.11

0.07

1.1

110

0.88

0.44

88

68.0

0.44

2.2

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mig/kg

mg/kg

mg/kg

1

1

1

1

1

1

1,6010B

1,6010B

1,6010B

1,6010B

1,6010B

1,6010B

1,6010B

1,6010B

MG

MG

MG

MG

MG

MG

MG

MG

Nickel, Total

Polassium, Total

Selenium, Total

Silver, Total

Sodium, Total

Thallium, Total

Vanadium, Total

Zinc, Total

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012501-17

SDUP2-081210 DEVENS, MA

Sample Location:

Date Collected:

08/12/10 08:45

Date Received:

08/12/10

Matrix:

Soil

Field Prep:

Percent Solids:

84%

Percent Solids:	84%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough l	_ab									
Aluminum, Total	3200		mg/kg	4.8	1.4	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.4	0.21	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Arsenic, Total	9.2		mg/kg	0.48	0.10	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Barium, Total	9.0		mg/kg	0.48	0,06	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Beryllium, Total	0.24		mg/kg	0.24	0.01	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.48	0.04	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Calcium, Total	580		mg/kg	4.8	0.88	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Chromium, Total	6.1		mg/kg	0.48	0.05	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Cobalt, Total	1.7		mg/kg	0.97	0.17	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Copper, Total	9.0		mg/kg	0.48	0.05	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Iron, Total	5300		mg/kg	2.4	0.86	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Lead, Total	14		mg/kg	2.4	0.06	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	4.8	0.56	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Manganese, Total	84		mg/kg	0.48	0.02	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Mercury, Total	0.48		mg/kg	0.08	0.02	1	08/16/10 14:3	6 08/17/10 14:59	EPA 7471A	1,7471A	EZ
Nickel, Total	5.9		mg/kg	1.2	0.08	1	08/16/10 17:5	5 08 /17/10 11:50	EPA 3050B	1,6010B	MG
Potassium, Total	440		mg/kg	120	43.	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Selenium, Total	0.14	J	mg/kg	0.97	0.14	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Silver, Total	0.038	J	mg/kg	0.48	0.03	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Sodium, Total	48	J	mg/kg	97	27.	1.	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.97	0.29	1.	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	'MG
Vanadium, Total	4.9		mg/kg	0.48	0.12	1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG
Zinc, Total	17		mg/kg	2.4	0.08	-1	08/16/10 17:5	5 08/17/10 11:50	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002 Lab Number: **Project Number:** AC001

L1012501 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: L1012501-18 Client ID: SDUP3-081210 Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected: 08/12/10 08:48 Date Received: 08/12/10 Field Prep: Not Specified

Percent Solids:	90%					5 11. 11	25.0		2000	A 1	
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	2800		mg/kg	4.4	1.3	1	08/16/10 17:55	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/16/10 17:55	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Arsenic, Total	15		mg/kg	0.44	0.09	1	08/16/10 17:55	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Barium, Total	8.7		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Beryllium, Total	0.24		mg/kg	0.22	0.01	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.44	0.04	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Calcium, Total	640		mg/kg	4.4	0.80	1	08/16/10 17:58	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Chromium, Total	7.4		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Cobalt, Total	1.8		mg/kg	0.88	0.16	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Copper, Total	14		mg/kg	0.44	0.05	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Iron, Total	4800		mg/kg	2.2	0.78	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Lead, Total	16		mg/kg	22	0.06	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Magnesium, Total	1000		mg/kg	4.4	0.51	1	08/16/10 17:59	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Manganese, Total	70		mg/kg	0.44	0.02	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Mercury, Total	0.79		mg/kg	0.09	0.02	1	08/16/10 14:36	6 08/17/10 15:01	EPA 7471A	1,7471A	EZ
Nickel, Total	5.7		mg/kg	1.1	0.07	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Potassium, Total	390		mg/kg	110	39	1	08/16/10 17:55	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Selenium, Total	0.13	J	mg/kg	0.88	0.12	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Silver, Total	0.032	L	mg/kg	0.44	0.03	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Sodium, Total	28	J	mg/kg	88	24.	1	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.88	0.26	1	·08/16/10 17:55	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Vanadium, Total	4.6		mg/kg	0.44	0.11	11	08/16/10 17:5	5 08/17/10 11:53	EPA 3050B	1,6010B	MG
Zinc, Total	16		mg/kg	2.2	0.07	1	08/16/10 17:55	5 08/17/10 11:53	EPA 3050B	1,6010B	MG

Project Name: SH

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

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)	01-18	Batch:	WG42	7861-1				
Mercury, Total	ND	mg/kg	0.08	0.02	1	08/16/10 14:36	08/17/10 14:14	1,7471A	EZ

Prep Information

Digestion Method: EPA 7471A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough	Lab for sample(s)	: 01-18	Batch:	WG42	7886-1				
Aluminum, Total	ND	mg/kg	4.0	1.2	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Antimony, Total	ND	mg/kg	2.0	0.17	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Arsenic, Total	ND	mg/kg	0.40	0.08	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Barium, Total	ND	mg/kg	0.40	0.05	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Seryllium, Total	ND	mg/kg	0.20	0.01	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Cadmium, Total	ND	mg/kg	0.40	0 03	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Calcium, Total	ND	mg/kg	4.0	0.72	1	08/16/10 17:55	08/17/10 08:12	1 6010B	MG
Chromium, Total	ND	mg/kg	0.40	0.04	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Cobalt, Total	ND	mg/kg	0.80	0.14	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Copper, Total	ND	mg/kg	0.40	0.04	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Iron, Total	ND	mg/kg	2.0	0.71	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Lead, Total	ND	mg/kg	2.0	0.05	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Magnesium, Total	ND	mg/kg	4.0	0.46	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Manganese, Total	ND	mg/kg	0.40	0.02	. 1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG · ·
Nickel, Total	ND	mg/kg	1.0	0.06	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Potassium, Total	ND	mg/kg	100	35.	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Selenium, Total	ND	mg/kg	0.80	0.11	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Silver, Total	ND	mg/kg	0.40	0.02	1.	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Sodium, Total	ND	mg/kg	80	22.	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Thallium, Total	ND	mg/kg	0.80	0.24	1	08/16/10 17:55	08/17/10 08:12	1,60108	MG
Vanadium, Total	ND	mg/kg	0.40	0.10	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG
Zinc, Total	ND	mg/kg	2.0	0.06	1	08/16/10 17:55	08/17/10 08:12	1,6010B	MG



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

SHL TASK 0002 Batch Quality

Lab Number:

L1012501

Report Date:

08/31/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s) 01-1	8 Batch:	WG427861-2					
A	7.00							

Project Name:

Project Number:

AC001

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 01-18	Batch: WG427886-2			
Aluminum, Total	.95	*	80-120	-	
Antimony, Total	95	9	80-120		
Arsenic, Total	102.	8	80-120		
Barium, Total	95		80-120	-	
Beryllium, Total	100		80-120	-	
Cadmium, Total	103		80-120		
Calcium, Total	. 90	*	80-120	1.0	
Chromium, Total	97		80-120	4.0	
Cobalt, Total	95	21	80-120	30	
Copper, Total	98		80-120	. 2	
Iron, Total	103 -	•	80-120		
Lead, Total	98	9	80-120	4	
Magnesium, Total	95		80-120	-	
Manganese, Total	95		80-120	-	
Nickel, Total	.95	4	80-120	34	
Potassium, Total	93		80-120	#-P	
Selenium, Total	98		80-120	44	
Silver, Total	100		75-120	*	
Sodium, Total	.103	0.60	80-120		
Thallium, Total	102	12 -	80-120	•	
Vanadium, Total	100		80-120	-	

Lab Control Sample Analysis Batch Quality Control

SHL TASK 0002

SITE TASK OU

AC001

Project Name:

Project Number:

Lab Number:

L1012501

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab As	ssociated sample(s); 01-18	Batch: WG427886-2			
Zinc, Total	95		80-120	19.	

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012501

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD	Qual	RPD Limits
Total Metals - Westborough 050	Lab Associated	sample(s): (01-18 QC	Batch ID: WG	427861-	3 WG42786	1-4 QC Sai	mple: L1012501-12	Clie	nt ID:	SP-10-13
Mercury, Total	ND	0.152	0.15	99		0.19	103	80-120	24	Q	20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012501

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found		ISD covery		Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lat 050	Associated	sample(s): 0	1-18 QC	Batch ID: WG4	427886-3	WG42788	36-4	QC Sam	ple: L	.1012501-12	Client ID:	SP-10-13
Aluminum, Total	3200	88.5	3200	0		3000		0		80-120	6	20
Antimony, Total	ND	22.1	14	63	Q	15		67	Q	80-120	7	20
Arsenic, Total	1.3	5.31	6.7	102		6.6		99		80-120	2	20
Barium, Total	8.5	88.5	93	96		91		92		80-120	2	20
Beryllium, Total	0.27	2.21	2.5	101		2,5		100		80-120	0	20
Cadmium, Total	ND	2.26	2.3	102		2.2		97		80-120	4	20
Calcium, Total	480	442	840	81		800		72	Q	80-120	5	20
Chromium, Total	6.9	8.85	14	80		14		80		80-120	0	20
Cobalt, Total	2.3	22.1	24	98		23		93		80-120	4	20
Copper, Total	4.5	11	15	95		15		94		80-120	0	20
Iron, Total	4000	44.2	4100	226		3800		0		80-120	8	20
Lead, Total	3.8	22.6	26	98		27		102		80-120	4	20
Magnesium, Total	1400	442	1700	68	Q	1500		22	Q	80-120	13	20
Manganese, Total	44	22.1	66	99		61		76	Q	80-120	8	20
Nickel, Total	6.7	22.1	27	92		27		91		80-120	0	20
Potassium, Total	400	442	830	97		770		83		80-120	8	20
Selenium, Total	ND	5.31	5.4	102		5.1		95		80-120	6	20
Silver, Total	ND	13.3	14	106		14		104		75-120	0	20
Sodium, Total	ND	442	510	115		520		116		80-120	2	20
Thallium, Total	ND	5.31	5.2	98		5.3		99		80-120	2	20
Vanadium, Total	5.0	22.1	26	95		25		90		80-120	4	20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012501

Report Date:

Parameter		Native Sample	MS. Added	MS Found	MS %Recovery	MSD Found %F	MSD Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - 050	Westborough Lat	Associated	sample(s): (01-18 QC	C Batch ID: WG42	7886-3 WG427886-4	4 QC Samp	ole: L1012501-12	Client ID:	SP-10-13-
Zinc, Total		12	22.1	32	90	31	85	80-120	3	20

INORGANICS & MISCELLANEOUS

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-01

Client ID:

SP-10-12-001

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:30

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	3.83		%	0.010	0.010	1	1.4	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	3.97		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab	i								
Solids, Total	97		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-02 SP-10-12-005

Client ID: Sample Location:

DEVENS, MA

89

Matrix:

Solids, Total

Soil

Date Collected:

08/12/10 08:33

Date Received:

08/13/10 16:33

08/12/10

Field Prep:

Not Specified

30,2540G

AC

Dilution Date Analytical Date Factor Prepared Analyzed Method MDL Parameter Result Qualifier Units RL Analyst Total Organic Carbon - Mansfield Lab Total Organic Carbon (Rep1) 08/18/10 08:00 5.87 % 0.010 0.010 1,9060 NR Total Organic Carbon (Rep2) 0.010 08/18/10 08:00 7.56 % 0.010 1,9060 NR General Chemistry - Westborough Lab

NA

0.10

%

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

Date Collected:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012501-03 SP-10-12-009

Sample Location: DEVENS, MA

Date Received:

08/12/10 08:35

Field Prep:

08/12/10

Not Specified

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.744		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	0.714		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	98		%	0.10	NA	1	-	08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002 Lab Number:

L1012501

Project Number: AC001

Report Date: 08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-04

Client ID:

SP-10-12-015

Sample Location:

DEVENS, MA

Date Collected:

08/12/10 08:37

Date Received:

08/12/10

Field Prep:

Not Specified

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.185		%	0.010	0.010	1	*	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	0.129		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	94		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012501

08/31/10

Project Number: AC001

Report Date:

Date Collected:

SAMPLE RESULTS

08/12/10 08:40

Lab ID: Client ID: L1012501-05 SP-10-12-017

08/12/10

Sample Location: DEVENS, MA

Date Received: Field Prep:

Not Specified

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.094		%	0.010	0.010	1	-	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	0.058		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	91		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012501 Project Number: AC001 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012501-06 SP-10-12-025

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:42

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1	(5)	08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	91		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-07

Client ID:

SP-10-12-035

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:45

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.062		%	0.010	0.010	1	-	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	0.152		%	0.010	0.010	1	161	08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	81		%	0.10	NA	1	2	08/13/10 16:33	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-08

Client ID:

SP-10-12-040

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:48

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.117		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	0.089		%	0.010	0.010	1	2	08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab	1								
Solids, Total	91		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-09

Client ID:

SP-10-12-042

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:50

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lat)								
Solids, Total	86		%	0.10	NA	1	- 5-	08/13/10 16:33	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-10

Client ID:

SP-10-12-052 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 08:52

Date Received:

08/12/10

Field Prep:

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
ansfield Lab									
0.019		%	0.010	0.010	1	-	08/18/10 08:00	1,9060	NR
ND		%	0.010	0.010	1	1.6	08/18/10 08:00	1,9060	NR
borough Lab									
89		%	0.10	NA	1	4.1	08/13/10 16:33	30,2540G	AC
	ańsfield Lab 0.019 ND borough Lab	ansfield Lab 0.019 ND borough Lab	ansfield Lab 0.019 % ND % borough Lab	ansfield Lab 0.019 % 0.010 ND % 0.010 borough Lab	ansfield Lab 0.019 % 0.010 0.010 ND % 0.010 0.010 borough Lab	Result Qualifier Units RL MDL Factor ansfield Lab 0.019 % 0.010 0.010 1 ND % 0.010 0.010 1 borough Lab	Result Qualifier Units RL MDL Factor Prepared ansfield Lab 0.019 % 0.010 0.010 1 - ND % 0.010 0.010 1 - borough Lab	Result Qualifier Units RL MDL Factor Prepared Analyzed ansfield Lab 0.019 % 0.010 0.010 1 - 08/18/10 08:00 ND % 0.010 0.010 1 - 08/18/10 08:00 borough Lab	Result Qualifier Units RL MDL Factor Prepared Analyzed Method ansfield Lab 0.019 % 0.010 0.010 1 - 08/18/10 08:00 1,9060 ND % 0.010 0.010 1 - 08/18/10 08:00 1,9060 borough Lab

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-11

Client ID:

SP-10-12-055

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:55

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	2	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1	4	08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	81		%	0.10	NA	1	3	08/13/10 16:33	30,2540G	AC
Total Organic Carbon (Rep2) General Chemistry - West	ND borough Lab)	%	0.010	0.010	1 1	4	08/18/10 08:00	1,9060	N

Project Name: SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-12

Client ID: Sample Location: SP-10-13-050 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:07

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	2	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	90		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-13

Client ID:

SP-10-13-072 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 10:18

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	94		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

Project Number: AC001 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: Client ID:

L1012501-14 SP-10-13-075

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:20

Date Received:

08/12/10

L1012501

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	4	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	90		%	0.10	NA	1	•	08/13/10 16:33	30,2540G	AC

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-15

Client ID:

SP-10-13-077 Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:22

Date Received:

08/12/10

Not Specified

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	2	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	89		%	0.10	NA	1	6	08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002 Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-16

Client ID:

SP-10-13-083 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 10:25

Date Received:

08/12/10

Field Prep:

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
nsfield Lab									
ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
borough Lab)								
91		%	0.10	NA	1	÷	08/13/10 16:33	30,2540G	AC
	nsfield Lab ND ND ND borough Lab	ensfield Lab ND ND borough Lab	ensfield Lab ND % ND % borough Lab	Ansfield Lab ND % 0.010 ND % 0.010 borough Lab	Ansfield Lab ND % 0.010 0.010 ND % 0.010 0.010 borough Lab	Result Qualifier Units RL MDL Factor Insfield Lab % 0.010 0.010 1 ND % 0.010 0.010 1 borough Lab https://doi.org/10.000 0.010 0.010 1	Result Qualifier Units RL MDL Factor Prepared Instigled Lab ND % 0.010 0.010 1 - ND % 0.010 0.010 1 - borough Lab	Result Qualifier Units RL MDL Factor Prepared Analyzed Ansfield Lab ND % 0.010 0.010 1 - 08/18/10 08:00 ND % 0.010 0.010 1 - 08/18/10 08:00 borough Lab	Result Qualifier Units RL MDL Factor Prepared Analyzed Method Insfield Lab ND % 0.010 0.010 1 - 08/18/10 08:00 1,9060 ND % 0.010 0.010 1 - 08/18/10 08:00 1,9060 borough Lab borough Lab 0.010

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-17 SDUP2-081210

Client ID: Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:45

Date Received:

08/12/10

Field Prep:

Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemist	try - Westbo	orough Lab									
Solids, Total		84		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-18

Client ID: Sample Location:

SDUP3-081210 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:48

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	90		%	0.10	NA	1	+	08/13/10 16:33	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - M	ansfield Lab for sam	ole(s): 01	-16 Bate	ch: WG	427741-1				
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1	197	08/18/10 08:00	1,9060	NR

Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1012501

Report Date:

08/31/10

Parameter	Native Sam	iple I	Duplicate Samp	le Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab As	ssociated sample(s): 01-18	QC Batch ID	: WG427592-1	QC Sample:	L1012498-05	Client ID:	DUP Sample
Solids Total	85		85	9/2	0		20

Project Name:

Project Number: AC001

SHL TASK 0002

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG427741-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	106		75-125
Total Organic Carbon (Rep2)	114		75-125



Project Name: SHL TASK 0002

Lab Number: L1012501 Project Number: AC001 Report Date: 08/31/10

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(*)
L1012501-01A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-01X	Amber 100ml unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-02A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T
L1012501-02X	Glass 100ml unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-03A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-ZN-6010T(180),DOD-BE-
the very	der teil in 1939	77		0	1	o kara ya	6010T(180),DOD-CR- 6010T(180)
L1012501-03X	Amber 100ml unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-04A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CR-6010T(180)
L1012501-04X	Glass 100ml unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-05A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(18
4 2 8 4	And the second	A de					6010T(180),DOD-V- 6010T(180),DOD-ZN-
· •	sea Property	1 68 G 4	1	- 2 - 3.	4	199	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012501-05X	Amber 100ml unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-06A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180), DOD-MG-6010T(180), DOD-MG-6010T(180), DOD-AG-6010T(180), DOD-BA-6010T(180), DOD-CD-6010T(180), DOD-CD-6010T(180), DOD-HG-7471(28), DOD-NA-6010T(180), TS(7), DOD-SE-6010T(180), DOD-MN-6010T(180), DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-NI-6010T(180), DOD-SB-6010T(180), DOD-SB-6010T(180), DOD-SB-6010T(180), DOD-CO-6010T(180), DOD-CO-6010T(180), DOD-ZN-6010T(180), DOD-ZN-6010T(180), DOD-BE-6010T(180), DOD-BE-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180), DOD-CR-6010T(180)
L1012501-06X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-07A	Glass 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(18
	40.85					119 17	6010T.(180),DOD-ZN- 6010T(180),DOD-BE-
	7 (* :) / / /	-4				100 0	6010T(180);DOD-CR- 6010T(180)
L1012501-07X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1012501 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
L1012501-08A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-08X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-09A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-
8	***						6010T(180),DOD-BE-
0.000							6010T(180),DOD-CR- 6010T(180)
L1012501-09X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501

Report Date: 08/31/10

Container	Information					Temp			
Containe	r ID Contair	ner Type		Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-10		Oml unpreserved	3	Α	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-10	OX Vial Large	unpreserved sp	olit	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-1	1A Amber 25	Oml unpreserved		A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(18
* (3 '	8.28	* "	200		4.00			*	6010T(180),DOD-ZN- 6010T(180),DOD-BE-
× 107 . 20	Service &		* (3		0.4	*		0 1000	6010T(180),DOD-CR- 6010T(180)
L1012501-11	IX Vial Large	unpreserved sp	olit	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-12A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-12X	Amber 250ml unpreserved	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-13A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NL-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-BB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
e 8'K (1)						4	6010T(180),DOD-ZN-
4. 4, 5,	. Sandyn Korn				- x = F ,	3 3 3 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012501-13X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501

Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-14A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-HE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-14X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-15A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-MG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CC-6010T(180),DOD-CC-6010T(180),DOD-CC-6010T(180),DOD-CC-6010T(180),DOD-CC-6010T(180),DOD-CC-6010T(180),DOD-V-
	7.49		PP	-	**	m 83 4	6010T(180),DOD-ZN- 6010T(180),DOD-BE-
	d entrope to	p	-7		-	9e " in	6010T(180),DOD-CR- 6010T(180)
L1012501-15X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)



Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-16A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-16X	Vial Large unpreserved split	Α	N/A	2.3	Υ	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-17A	Glass 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-60
	2 10 10 10 10					7 we wit.	6010T(180),DOD-V- 6010T(180),DOD-ZN-
3 5.5	ent of the party		E	1.10			6010T(180),DOD-BE- 6010T(180),DOD-CR-
							6010T(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012501

Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-18A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

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.

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.
- 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 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: DU Report with "J" Qualifiers

ALPHA

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

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

L1012501

Lab Number:

Project Name: SHL TASK 0002

Project Number: AC001 Report Date: 08/31/10

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.



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, 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-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, 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, 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 <u>Certificate/Lab ID</u>: 666. <u>Organic</u> 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.

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (<u>Inorganic Parameters</u>: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. <u>Organic Parameters</u>: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

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WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193 Client Information	MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288	Project Informa Project Name: 5H Project Location: 1	L Tasi Devens		2	Report Info	Ø EM □ Add	AIL EDE) 25		g Information e as Client info PO#:	
Address: 9053 Mans8, Phone: 50%-2	5 Consulting Inc 5 Main 57 Eld, MA 02048 339-3200 39-3248	Project #: ACO: Project Manager: ALPHA Quote #: Turn-Around Ti	hil n	NeBai	n _	Stale /Fed Pro	gram SUMPTIV Are M Is Mat	E CERTAI CP Analytica rix Spike (M	Cric NTY (Methods S) Require	CT REASO s Required? ed on this S	OAPP ONABLE CONFIDENCE PROT Protocols) Required?	
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Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012502

Report Date:

08/31/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recove	ery Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated	sample(s): 0	1-20 QC	Batch ID: WG4	27615-3	3 WG4276	15-4 QC	Sample: I	_1012502-16	Clien	t ID:	SP-10-13-
Aluminum, Total	2500	86.8	4100	1840		2600	113		80-120	45	Q	20
Antimony, Total	ND	21.7	15	69	Q	15	68	Q	80-120	0		20
Arsenic, Total	3.8	5,21	8.2	84		8.2	83		80-120	0		20
Barium, Total	9.1	86.8	88	.91		89	90		80-120	1		20
Beryllium, Total	ND	2.17	2.4	110		2.3	104		80-120	4		20
Cadmium, Total	ND	2.21	2.1	95		2.2	98		80-120	5		20
Calcium, Total	420	434	790	85		700	63		80-120	12		20
Chromium, Total	4.6	8.68	17	143	Q	13	95		80-120	27	Q	20
Cobalt, Total	1.4	21.7	22	95		22	93		80-120	0		20
Copper, Total	3.9	10.8	16	111		14	92		80-120	13		20
Iron, Total	3900	43.4	6700	6450		3900	0		80-120	53	Q	20
Lead, Total	3.3	22.1	26	102		24	92		80-120	8		20
Magnesium, Total	930	434	2300	316	Q	1400	106		80-120	49	Q	20
Manganese, Total	33	21.7-	79	212	Q	53	91		80-120	39	Q	20
Nickel, Total	5.6	21.7	28	103		25	88		80-120	11		20
Potassium, Total	320	434	760	101		710	88		80-120	7		20
Selenium, Total	ND	5.21	5.0	96		5.1	96		80-120	2		20
Silver, Total	ND	13	13	100		14	106		75-120	7		20
Sodium, Total	ND	434	510	117		490	111		80-120	4		20
Thallium, Total	ND	5.21	5.0	96		5.0	94		80-120	0		20
Vanadium, Total	3.8	21.7	27	107		24	92		80-120	12		20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012502

Report Date:

08/31/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab	Associated	sample(s): 01	-20 Q	C Batch ID: WG42761	5-3 WG42761	5-4 QC Sample	e: L1012502-16	Client ID:	SP-10-13
Zinc, Total	8.1	21.7	33	115	28	90	80-120	16	20
Total Metals - Westborough Lab	Associated	sample(s): 01	-20 Q	C Batch ID: WG42786	2-3 WG42786	62-4 QC Sample	e: L1012502-16	Client ID:	SP-10-13
Mercury, Total	ND	0.148	0.15	101	0.17	100	80-120	13	20

Project Name: SHL TASK 0002 Lab Number:

L1012501

Project Number: AC001

Sample Location:

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-14

Client ID:

SP-10-13-075 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:20

Date Received:

08/12/10

Field Prep:

Not Specified

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
ansfield Lab									
ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
borough Lab									
90		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC
	ansfield Lab ND ND Sborough Lab	ansfield Lab ND ND borough Lab	ansfield Lab ND % ND % borough Lab	ansfield Lab ND % 0.010 ND % 0.010 borough Lab	ansfield Lab ND % 0.010 0.010 ND % 0.010 0.010 borough Lab	Result Qualifier Units RL MDL Factor ansfield Lab ND % 0.010 0.010 1 ND % 0.010 0.010 1 aborough Lab % 0.010 0.010 1	Result Qualifier Units RL MDL Factor Prepared ansfield Lab ND % 0.010 0.010 1 - ND % 0.010 0.010 1 - aborough Lab	Result Qualifier Units RL MDL Factor Prepared Analyzed ansfield Lab ND % 0.010 0.010 1 - 08/18/10 08:00 ND % 0.010 0.010 1 - 08/18/10 08:00 aborough Lab Result Qualifier Units RL MDL Factor Prepared Analyzed	Result Qualifier Units RL MDL Factor Prepared Analyzed Method ansfield Lab ND % 0.010 0.010 1 - 08/18/10 08:00 1,9060 ND % 0.010 0.010 1 - 08/18/10 08:00 1,9060 aborough Lab aborough Lab

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-15

Client ID: Sample Location:

SP-10-13-077 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:22

Date Received:

08/12/10

Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	*	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	89		%	0.10	NA	1	9	08/13/10 16:33	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-16

Client ID:

SP-10-13-083

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:25

Date Received:

08/12/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	-	08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	91		%	0.10	NA	1	÷	08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-17

Client ID:

SDUP2-081210

Sample Location:

DEVENS, MA Soil

Date Collected:

08/12/10 08:45

Date Received:

08/12/10

Field Prep:

Not Specified

Matrix:

Parameter	Result	Qualifler	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemist	ry - Westborough Lab									
Solids, Total	84		%	0.10	NA	1	-	08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012501

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012501-18 SDUP3-081210

Client ID: Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:48

Date Received:

08/12/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	90		%	0.10	NA	1		08/13/10 16:33	30,2540G	AC

Project Name: SHL TASK 0002

Lab Number:

L1012501

Project Number: AC001

0001

Report Date: 08/31/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - M	lansfield Lab for samp	ole(s): 01	-16 Bate	ch: WG	427741-1				
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		08/18/10 08:00	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1		08/18/10 08:00	1,9060	NR



Lab Duplicate Analysis
Batch Quality Control

Lab Number:

L1012501

Report Date:

08/31/10

Parameter	Native Sam	ple	Duplicate Samp	le Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-18	QC Batch	ID: WG427592-1	QC Sample:	L1012498-05	Client ID:	DUP Sample
Solids, Total	85		85	%	0		20

Project Name:

Project Number: AC001

SHL TASK 0002

Project Name:

SHL TASK 0002

Lab Number:

L1012501

Project Number:

AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG427741-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	106		75-125
Total Organic Carbon (Rep2)	114		75-125



Project Name: SHL TASK 0002

Lab Number: L1012501 Report Date: 08/31/10 Project Number: AC001

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 Information Temp deg C Analysis(*) **Container ID Container Type** Cooler Pres Seal pH DOD-AS-6010T(180), DOD-CA-L1012501-01A Amber 250ml unpreserved N/A 2.3 Present/Intact 6010T(180), DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180), DOD-K-6010T(180), DOD-BA-6010T(180), DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL-6010T(180), TS(7), DOD-SE-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180), DOD-PB-6010T(180).DOD-SB-6010T(180), DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180), DOD-ZN-6010T(180), DOD-BE-6010T(180), DOD-CR-6010T(180) L1012501-01X Amber 100ml unpreserved split 2.3 Present/Intact A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-02A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-02X	Glass 100ml unpreserved split	Α	N/A	2.3	Υ	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-03A	Amber 250ml unpreserved	A	N/A	2,3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-
* Us 134	44.	Die .					6010T(180),DOD-BE-
							6010T(180),DOD-CR- 6010T(180)
L1012501-03X	Amber 100ml unpreserved split	Α	N/A	2.3	Υ	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pН	deg C	Pres	Seal	Analysis(*)
L1012501-04A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NN-6010T(180),DOD-NN-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-04X	Glass 100ml unpreserved split	Α	N/A	2.3	Υ	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-05A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-BB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-
1 4 4 V	* 4	. 50		- 6		3 44 3	6010T(180),DOD-ZN-
	and the	ar i	-	14 14		2.4	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012501-05X	Amber 100ml unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-06A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-06X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-07A	Glass 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T
							6010T.(180),DOD-ZN
· 100.5	ATT AT A ST.	251		(× 5 - 3		* *,** *	6010T(180);DOD-CR- 6010T(180)
L1012501-07X	Vial Large unpreserved split	A	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-08A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-08X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-09A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-
20					3 5		6010T(180),DOD-BE-
6.0	And the state of the state of			9.4	-	2 3 5 35 11	6010T(180),DOD-CR
L1012501-09X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Information Temp **Container ID Container Type** deg C Pres Seal Analysis(*) Cooler pH L1012501-10A Amber 250ml unpreserved N/A 2.3 Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180),DOD-MG-6010T(180), DOD-AG-6010T(180), DOD-K-6010T(180), DOD-BA-6010T(180), DOD-CU-6010T(180),DOD-CD-6010T(180), DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180), DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180), DOD-CO-6010T(180),DOD-V-6010T(180), DOD-ZN-6010T(180), DOD-BE-6010T(180), DOD-CR-6010T(180) L1012501-10X Vial Large unpreserved split A N/A 2.3 Present/Intact A2-TOC-9060-2REPS(28) L1012501-11A Amber 250ml unpreserved A N/A 2.3 Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180), DOD-AG-6010T(180), DOD-K-6010T(180), DOD-BA-6010T(180),DOD-CU-6010T(180), DOD-CD-6010T(180),DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180), DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180), DOD-V-6010T(180), DOD-ZN-17. 6 6010T(180), DOD-BE-6010T(180), DOD-CR-6010T(180) L1012501-11X Vial Large unpreserved split N/A 2.3 A Present/Intact A2-TOC-9060-2REPS(28)

SHL TASK 0002

Project Number: AC001

Lab Number: L1012501 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-12A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-12X	Amber 250ml unpreserved	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-13A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
e e e	9 5 74 4 4 4			5.		¥	6010T(180),DOD-ZN-
** * *	e entre tra	8.6	- 15.3			.)	.6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012501-13X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012501

Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-14A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-14X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-15A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-BB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
	F + 2 100		7.4	- 4	7.	1 4.	6010T(180),DOD-ZN-
ar te	7 elefonist acida	W- 14	911				6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012501-15X	Vial Large unpreserved split	Α	N/A	2.3	Y	Present/Intact	A2-TOC-9060-2REPS(28)



Project Number: AC001

Lab Number: L1012501 **Report Date**: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-16A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012501-16X	Vial Large unpreserved split	Α	N/A	2,3	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012501-17A	Glass 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-BB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-
** .* *	ining to edge of the		4	< .6			6010T(180),DOD-ZN- 6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)

Serial_No:08311012:13

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012501

Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012501-18A	Amber 250ml unpreserved	A	N/A	2.3	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180)

SHL TASK 0002

Lab Number:

L1012501

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Report Date:

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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.

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.
- 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

ДІРНА

SHL TASK 0002

Lab Number:

L1012501

Project Number:

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Report Date:

08/31/10

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 Number: AC001 Report D

Lab Number: L1012501

Report Date: 08/31/10

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, 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, 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 (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, S\M3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-7-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 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.

Parameter ()

Certificate/Approval Program Summary

Last revised July 19, 2010 - Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, <u>Organic Parameters</u>: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,

Solid & Chemical Materials (<u>Inorganic Parameters</u>: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. <u>Organic Parameters</u>: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B, Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. <u>Organic Parameters</u>: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

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STBORO, MA	MANSFIELD, MA	Project Infor	mation			Report Infor	mation - Da	ata Delive	rables	Billing Information	
: 508-898-9220	TEL: 508-822-9300 FAX: 508-822-3288	Project Name:	SHL TO	54 000	2	□ FAX	and the second	LEDR		Same as Client info PO #:	
ent Information		Project Location				□ ADEx Regulatory R	10000000	Deliverable			
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ne: 50%-33		Turn-Aroun	i Time			Yes No	Is Matri:	Spike (MS	S) Required or	n this SDG? (If yes see note in Comm	nents)
50%-33	9-3244	Standard	O RUSH	(only confirmed if pri	-annavad)	☐ Yes Ø(No	Are CT	RCP (Reas	onable Confid	dence Protocols) Required?	
	n @soveon.com	Data Data		Time:	- Marianii	ANALYSIS	11	11	111		
	been previously analyzed by Alpha cific Requirements/Comm	8	16/10	, Allier		8 /	//	///	///	SAMPLE HANDLIN	NG
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-(5) \$ -(7) \$ -(8) \$	SOUP 3 - 081210 QUESTIONS ABOVE CT RCP?	9/12/ 8/12/	6 1029 6 084 6 084	5 S 8 S Col	wow wow work work work work work work wo	A A A A Re	eceived By:		(22 Date/TI 8 · 12 - 1 8 / 12 / 10		



ANALYTICAL REPORT

Lab Number:

L1012502

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:

08/31/10

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

Lab Number: L1012502 **Project Number:** Report Date: AC001 08/31/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1012502-01	SP-10-13-001	DEVENS, MA	08/12/10 09:30
L1012502-02	SP-10-13-005	DEVENS, MA	08/12/10 09:33
L1012502-03	SP-10-13-008	DEVENS, MA	08/12/10 09:35
L1012502-04	SP-10-13-010	DEVENS, MA	08/12/10 09:37
L1012502-05	SP-10-13-011	DEVENS, MA	08/12/10 09:40
L1012502-06	SP-10-13-015	DEVENS, MA	08/12/10 09:42
L1012502-07	SP-10-13-017	DEVENS, MA	08/12/10 09:45
L1012502-08	SP-10-13-020	DEVENS, MA	08/12/10 09:47
L1012502-09	SP-10-13-023	DEVENS, MA	08/12/10 09:50
L1012502-10	SP-10-13-025	DEVENS, MA	08/12/10 09:52
L1012502-11	SP-10-13-027	DEVENS, MA	08/12/10 09:55
L1012502-12	SP-10-13-030	DEVENS, MA	08/12/10 09:57
L1012502-13	SP-10-13-032	DEVENS, MA	08/12/10 10:00
L1012502-14	SP-10-13-035	DEVENS, MA	08/12/10 10:02
L1012502-15	SP-10-13-040	DEVENS, MA	08/12/10 10:05
L1012502-16	SP-10-13-065	DEVENS, MA	08/12/10 10:07
L1012502-17	SP-10-13-067	DEVENS, MA	08/12/10 10:10
L1012502-18	SP-10-13-070	DEVENS, MA	08/12/10 10:15
L1012502-19	SDUP4-081210	DEVENS, MA	08/12/10 10:00
L1012502-20	SDUP5-081210	DEVENS, MA	08/12/10 10:12

Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1012502

Report Date:

08/31/10

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 replaces the report issued on August 23, 2010. The report has been amended to correct the MDL for Mercury and revise the Mercury result reported for sample L1012502-02.

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.

Metals

L1012502-09 and -11 have elevated detection limits for Zinc due to the dilutions required to quantitate the results within the calibration range.

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

Case Narrative (continued)

L1012502-09 has an elevated detection limit for Thallium due to the dilution required by non-target analyte spectral interferences encountered during analysis.

The WG427615-3/-4 MS/MSD recoveries for Aluminum (MS at 1840%), Calcium (MSD at 63%) and Iron (6450%/0%), performed on L1012502-16, are invalid because the sample concentration is greater than four times the spike amount added.

The WG427615-3/-4 MS/MSD recoveries, performed on L1012502-16, are outside the acceptance criteria for Antimony (69%/68%), Chromium (MS at 143%), Magnesium (MS at 316%) and Manganese (MS at 212%). A post digestion spike was performed with acceptable recoveries of Antimony (98%), Chromium (98%), Magnesium (86%) and Manganese (89%). L1012502-16 is qualified as "J" for Chromium, Magnesium and Manganese and should be qualified as "UJ" for Antimony.

The WG427615-3/-4 MS/MSD RPDs, performed on L1012502-16, are above the acceptance criteria for Aluminum (45%), Chromium (27%), Iron (53%), Magnesium (49%) and Manganese (39%). L1012502-16 is qualified as "J" for Aluminum and Iron.

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: 08/31/10

METALS



 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012502

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012502-01
 Date Collected:
 08/12/10 09:30

 Client ID:
 SP-10-13-001
 Date Received:
 08/12/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Soil

Percent Solids: 100% Dilution Analytical Date Date Prep Factor Prepared Analyzed Method Method Parameter Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab 3500 Aluminum, Total mg/kg 3.9 1 1,6010B 1.1 08/13/10 17:05 08/17/10 08:54 EPA 3050B MG 0.2 Antimony, Total J 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B mg/kg 1.9 0.17 1,6010B MG Arsenic, Total 8.4 mg/kg 0.39 0.08 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Barium, Total 9.4 mg/kg 0.39 0.05 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Beryllium, Total 0.28 0.19 0.01 1 mg/kg 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG ND Cadmium, Total 0.39 0.03 1 mg/kg 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Calcium, Total 500 mg/kg 3,9 0.70 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Chromium, Total 5.6 0.39 0.04 1 1,6010B mg/kg 08/13/10 17:05 08/17/10 08:54 EPA 3050B MG Cobalt, Total 2.3 0.78 0.14 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B mg/kg MG Copper, Total 5.0 mg/kg 08/13/10 17:05 08/17/10 08:54 EPA 3050B 0.39 0.04 1 1,6010B MG Iron, Total 6000 1.9 0.69 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B mg/kg MG Lead, Total 5.9 mg/kg 1.9 0.05 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Magnesium, Total 1200 mg/kg 3.9 0.45 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Manganese, Total 97 0.39 0.02 1 1,6010B mg/kg 08/13/10 17:05 08/17/10 08:54 EPA 3050B MG Mercury, Total ND 0.08 0.02 1 mg/kg 08/16/10 14:36 08/17/10 15:07 EPA 7471A 1,7471A EZ Nickel, Total 6.0 0.97 0.06 1 1,6010B mg/kg 08/13/10 17:05 08/17/10 08:54 EPA 3050B MG Potassium, Total 470 mg/kg 97 34. 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Selenium, Total ND mg/kg 0.78 0.11 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Silver, Total 0.091 J mg/kg 0.39 0.02 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Sodium, Total ND mg/kg 78 21. 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Thallium, Total ND mg/kg 0.78 0.23 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG 5.7 Vanadium, Total mg/kg 0.39 0.10 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG Zinc, Total 11 mg/kg 1.9 0.06 1 08/13/10 17:05 08/17/10 08:54 EPA 3050B 1,6010B MG

Project Number: AC001 Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-02 SP-10-13-005

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:33

Date Received:

08/12/10

Field Prep:

Not Specified

Percent Solids:	93%					Dilution	Date	Date	Descri	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Prep Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	5100		mg/kg	4,3	1.3	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.18	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Arsenic, Total	8.8		mg/kg	0.43	0.09	1	08/13/10 17:09	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Barium, Total	18		mg/kg	0.43	0.05	1	08/13/10 17:08	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Beryllium, Total	0.45		mg/kg	0.22	0.01	1	08/13/10 17:08	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	0.03	1	08/13/10 17:09	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Calcium, Total	1100		mg/kg	4.3	0.78	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Chromium, Total	16		mg/kg	0.43	0.05	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Cobalt, Total	3.2		mg/kg	0.86	0.16	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Copper, Total	7.4		mg/kg	0.43	0.05	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Iron, Total	7400		mg/kg	2.2	0.77	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Lead, Total	20		mg/kg	2.2	0 06	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Magnesium, Total	2300		mg/kg	4.3	0.50	1	08/13/10 17:09	5 08/17/10 08:58	EPA 3050B	1,6010B	ML
Manganese Total	120		mg/kg	0 43	0 02	1	08/13/10 17:09	5 08/17/10 08:58	EPA 3050B	1.6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 15:08	EPA 7471A	1,7471A	EZ
Nickel, Total	12		mg/kg	1.1	0.07	1	08/13/10 17:09	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Potassium, Total	1000		mg/kg	110	38	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.86	0.12	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Silver, Total	0.16	J	mg/kg	0.43	0.03	1	08/13/10 17:08	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Sodium, Total	130		mg/kg	86	24.	1	08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Thallium, Total	ND	- 1	mg/kg	0.86	0.26	1	. 08/13/10 17:0	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Vanadium, Total	10		mg/kg	0.43	0.11	1	08/13/10 17:05	5 08/17/10 08:58	EPA 3050B	1,6010B	MG
Zinc, Total	22		mg/kg	2.2	0.07	1	08/13/10 17:09	5 08/17/10 08:58	EPA 3050B	1,6010B	MG

Project Number: AC001 Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-03 SP-10-13-008 DEVENS, MA

Sample Location:

Soil

Date Collected:

08/12/10 09:35

Date Received: Field Prep:

08/12/10 Not Specified

Matrix: Percent Solids:

94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westl	oorough l	_ab									
Aluminum, Total	6200		mg/kg	4.4	1.3	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/13/10 17:05	08/17/10 09:01	EPA 3050B	1,6010B	MG
Arsenic, Total	9.1		mg/kg	0.44	0.09	1	08/13/10 17:05	08/17/10 09:01	EPA 3050B	1,6010B	MG
Barium, Total	18		mg/kg	0.44	0.05	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Beryllium, Total	0.66		mg/kg	0.22	0.01	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.44	0.04	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Calcium, Total	490		mg/kg	4.4	0.79	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Chromium, Total	18		mg/kg	0.44	0.05	1	08/13/10 17:05	08/17/10 09:01	EPA 3050B	1,6010B	MG
Cobalt, Total	2.9		mg/kg	0.87	0.16	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Copper, Total	7.7		mg/kg	0.44	0.05	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Iron, Total	9000		mg/kg	2.2	0.77	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Lead, Total	9.4		mg/kg	2.2	0.06	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Magnesium, Total	2700		mg/kg	4.4	0.50	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Manganese, Total	130		mg/kg	0.44	0.02	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Mercury, Total	1.6		mg/kg	0.09	0.02	1	08/16/10 14:38	6 08/17/10 15:10	EPA 7471A	1,7471A	EZ
Nickel, Total	9.6		mg/kg	1.1	0.07	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Potassium, Total	1500		mg/kg	110	38.	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Selenium, Total	0.14	J	mg/kg	0.87	0.12	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Silver, Total	0.12	J	mg/kg	0.44	0.03	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	87	24.	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG
Thallium, Total	ND	79 144	mg/kg	0.87	0.26	1	08/13/10 17:05	08/17/10 09:01	EPA 3050B	1;6010B	MG
Vanadium, Total	13		mg/kg	0.44	0.11	1	08/13/10 17:05	08/17/10 09:01	EPA 3050B	1,6010B	MG
Zinc, Total	29		mg/kg	2.2	0.07	1	08/13/10 17:05	5 08/17/10 09:01	EPA 3050B	1,6010B	MG

Project Number: AC001 Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-04 SP-10-13-010

Sample Location: Matrix:

DEVENS, MA

Soil

Date Collected:

08/12/10 09:37

Date Received:

08/12/10

Field Prep: Not Specified

Percent Solids:	93%					Dilution	Date	Data	Dien	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Prep Method	Method	Analyst
Total Metals - West	borough L	ab									
Aluminum, Total	3400		mg/kg	4.2	1.2	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/13/10 17:05	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Arsenic, Total	5.3		mg/kg	0.42	0.09	3	08/13/10 17:08	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Barium, Total	7.2		mg/kg	0.42	0.05	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Beryllium, Total	0.28		mg/kg	0.21	0.01	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/13/10 17:09	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Calcium, Total	570		mg/kg	4.2	0.77	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Chromium, Total	6.4		mg/kg	0.42	0.05	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Cobalt, Total	1.9		mg/kg	0.85	0.15	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Copper, Total	4.9		mg/kg	0.42	0.05	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Iron, Total	5000		mg/kg	2.1	0.76	1	08/13/10 17:09	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Lead, Total	5.8		mg/kg	2.1	0.06	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	4.2	0.49	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	Mc
Manganese, Total	62		mg/kg	0.42	0.02	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 15:16	EPA 7471A	1,7471A	EZ
Nickel, Total	6.7		mg/kg	1.1	0.07	-1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Potassium, Total	360		mg/kg	110	38.	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Selenium, Total	0.21	J	mg/kg	0.85	0.12	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Silver, Total	0.15	J	mg/kg	0.42	0.03	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Sodium, Total	42	J	mg/kg	85	23.	1	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.85	0.25	i.	08/13/10 17:0	5 08/17/10 09:04	EPA 3050B	1,6010B	MG
Vanadium, Total	4.8		mg/kg	0 42	0.11	1	08/13/10 17:09	5 08/17/10 09:04	EPA 3050B	1.6010B	MG
Zinc, Total	13		mg/kg	2.1	0.07	1	08/13/10 17:09	5 08/17/10 09:04	EPA 3050B	1,6010B	MG

Project Number: AC001 Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-05

Sample Location:

SP-10-13-011 DEVENS, MA

Matrix:

Soil

Date Collected: Date Received: Field Prep:

08/13/10 17:05 08/17/10 09:07 EPA 3050B

08/12/10 09:40 08/12/10

Not Specified

Percent Solids:	99%					5	4.00	2.0		12213124	
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westb	orough L	_ab									
Aluminum, Total	2700		mg/kg	4.1	1.2	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Arsenic, Total	7.4		mg/kg	0.41	0.08	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Barium, Total	8.5		mg/kg	0.41	0.05	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Beryllium, Total	0.27		mg/kg	0.21	0.01	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.41	0.03	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Calcium, Total	560		mg/kg	4.1	0.75	3	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Chromium, Total	4.4		mg/kg	0.41	0.05	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Cobalt, Total	2.0		mg/kg	0.83	0.15	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Copper, Total	4.0		mg/kg	0.41	0.05	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Iron, Total	4700		mg/kg	2.1	0.74	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Lead, Total	4.3		mg/kg	2.1	0.05	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Magnesium, Total	870		mg/kg	4.1	0.48	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Manganese, Total	89		mg/kg	0.41	0.02	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:3	6 08/17/10 15:18	EPA 7471A	1,7471A	EZ
Nickel, Total	5.2		mg/kg	1.0	0.07	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Potassium, Total	430		mg/kg	100	37_	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Selenium, Total	0.12	J	mg/kg	0.83	0.12	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Silver, Total	0.026	J	mg/kg	0.41	0.03	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	83	23.	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
Thallium, Total	ND	9 3	mg/kg	0.83	0.25	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	· MG
Vanadium, Total	4.4	1.74	mg/kg	0.41	0.10	1	08/13/10 17:0	5 08/17/10 09:07	EPA 3050B	1,6010B	MG
	2.2				100						

1,6010B

MG

Zinc, Total

9.7

mg/kg

2.1

0.07

SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-06

Client ID:

SP-10-13-015

Sample Location: Matrix:

Percent Solids:

DEVENS, MA

Soil

93%

Date Collected: Date Received:

08/12/10 09:42 08/12/10

Field Prep:

Not Specified

Percent Solids:	93%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough l	ab									
Aluminum, Total	2800		mg/kg	4.3	1.3	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Arsenic, Total	6.2		mg/kg	0.43	0.09	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Barium, Total	11		mg/kg	0,43	0.05	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Beryllium, Total	0.29		mg/kg	0.21	0.01	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	0.03	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Calcium, Total	560		mg/kg	4.3	0.77	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Chromium, Total	5.2		mg/kg	0.43	0.05	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Cobalt, Total	1.8		mg/kg	0.85	0.15	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Copper, Total	3.6		mg/kg	0.43	0.05	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Iron, Total	4200		mg/kg	2.1	0.76	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Lead, Total	3.7		mg/kg	2.1	0.06	-1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Magnesium, Total	880		mg/kg	4.3	0.50	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MC
Manganese, Total	71		mg/kg	0.43	0.02	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/16/10 14:3	6 08/17/10 15:19	EPA 7471A	1,7471A	EZ
Nickel, Total	4.4		mg/kg	1.1	0.07	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Potassium, Total	560		mg/kg	110	38.	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,60108	MG
Selenium, Total	ND		mg/kg	0.85	0.12	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Silver, Total	0.22	J	mg/kg	0.43	0.03	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Sodium, Total	44	J	mg/kg	85	24.	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,601,0B	MG
Thallium, Total	ND .		.mg/kg	0.85	0.26	.1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	. MG
Vanadium, Total	4.6	,	mg/kg	0.43	0.11	1	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG
Zinc, Total	9.0		mg/kg	2.1	0.07	4	08/13/10 17:0	5 08/17/10 09:23	EPA 3050B	1,6010B	MG

Project Number: AC001 Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-07

Sample Location:

SP-10-13-017 DEVENS, MA

Matrix:

Date Collected: Date Received: 08/12/10 09:45

Field Prep:

08/12/10 Not Specified

Maura.	3011
Percent Solids:	99%

Percent Solids:	99%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough l	_ab									
Aluminum, Total	3000		mg/kg	3.9	1.2	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	1.9	0.17	. 1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Arsenic, Total	6.7		mg/kg	0.39	0.08	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Barium, Total	10		mg/kg	0.39	0.05	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Beryllium, Total	0.28		mg/kg	0.19	0.01	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.39	0.03	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Calcium, Total	520		mg/kg	3.9	0.70	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Chromium, Total	4.8		mg/kg	0.39	0.04	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Cobalt, Total	1.9		mg/kg	0.78	0.14	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,60108	MG
Copper, Total	4.4		mg/kg	0.39	0.04	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Iron, Total	5100		mg/kg	1.9	0.69	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Lead, Total	4.5		mg/kg	1.9	0.05	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Magnesium, Total	1000		mg/kg	3.9	0.45	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,60108	MG
Manganese, Total	96		mg/kg	0.39	0.02	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:3	6 08/17/10 15:21	EPA 7471A	1,7471A	EZ
Nickel, Total	5.4		mg/kg	0.97	0.06	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Potassium, Total	520		mg/kg	97	34	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Selenium, Total	0.15	Ĵ	mg/kg	0.78	0.11	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Silver, Total	0.027	J	mg/kg	0.39	0.02	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Sodium, Total	27	J	mg/kg	78	22.	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Thaillium, Total	. ND		mg/kg	0.78	0.23	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	- 1,6010B	MG
Vanadium, Total	4.8		mg/kg	0.39	0.10	00 4	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG
Zinc, Total	11		mg/kg	1.9	0.06	1	08/13/10 17:0	5 08/17/10 09:26	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-08

Client ID:

SP-10-13-020

Sample Location:

DEVENS, MA

Date Collected:

08/12/10 09:47

Date Received:

08/12/10

Field Prep:

Not Specified

Matrix:	Soil
Percent Solids:	95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	3300		mg/kg	4.2	1.2	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/13/10 17:08	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Arsenic, Total	5.6		mg/kg	0.42	0.08	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Barium, Total	12		mg/kg	0.42	0.05	1	08/13/10 17:0	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Beryllium, Total	0.26		mg/kg	0.21	0.01	7	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/13/10 17:08	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Calcium, Total	490		mg/kg	4.2	0.75	1	08/13/10 17:09	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Chromium, Total	7.6		mg/kg	0.42	0.05	1	08/13/10 17:08	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Cobalt, Total	3.3		mg/kg	0.83	0.15	d.	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Copper, Total	5.2		mg/kg	0.42	0.05	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Iron, Total	6000		mg/kg	2.1	0.74	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Lead, Total	5.7		mg/kg	2.1	0.05	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Magnesium, Total	1400		mg/kg	4.2	0.48	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MC
Manganese Total	100		mg/kg	0.42	0.02	3	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1.6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/16/10 14:36	6 08/17/10 15:23	EPA 7471A	1,7471A	EZ
Nickel, Total	8.7		mg/kg	1.0	0.07	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Potassium, Total	440		mg/kg	100	37	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Selenium, Total	0.12	J	mg/kg	0.83	0.12	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Silver, Total	0.1	J	mg/kg	0.42	0.03		08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Sodium, Total	38	J	mg/kg	83	23.	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Thallium, Total	ND .	- Page 1	mg/kg	0.83	. 0.25	-1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Vanadium Total	5.6		mg/kg	0.42	0 10	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG
Zinc, Total	13		mg/kg	2.1	0.07	1	08/13/10 17:05	5 08/17/10 09:29	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002 Lab Number: L1012502 **Project Number:** 08/31/10

AC001 Report Date:

mg/kg

SAMPLE RESULTS Lab ID: L1012502-09 Date Collected: 08/12/10 09:50 Client ID: SP-10-13-023 Date Received: 08/12/10 Sample Location: DEVENS, MA Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90% Dilution Analytical Date Date Prep Factor Prepared Analyzed Method Method Parameter Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 5600 mg/kg 4.4 1.3 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Antimony, Total 44 mg/kg 2.2 0.19 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Arsenic, Total 31 mg/kg 0.44 0.09 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Barium, Total 43 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B mg/kg 0.44 0.05 1 MG Beryllium, Total 0.49 0.22 mg/kg 0.01 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Cadmium, Total 3.5 0.44 mg/kg 0.04 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Calcium, Total 2100 mg/kg 4.4 0.79 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Chromium, Total 52 mg/kg 0.44 0.05 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Cobalt, Total 4.5 0.87 mg/kg 0.16 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Copper, Total 33 0.44 0.05 mg/kg 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Iron, Total 17000 2.2 0.78 1,6010B mg/kg 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B MG Lead, Total 49 mg/kg 2.2 0.06 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Magnesium, Total 2100 4.4 0.50 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B mg/kg MG Manganese, Total 3000 mg/kg 0 44 0.02 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Mercury, Total 0.18 mg/kg 0.07 0.02 08/16/10 14:36 08/17/10 15:25 EPA 7471A 1,7471A EZ Nickel, Total 15 mg/kg 1.1 0.07 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Potassium, Total 1200 mg/kg 110 39. 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Selenium, Total 1.5 mg/kg 0.87 0.12 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Silver, Total 0.68 mg/kg 0.44 0.03 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B 1,6010B MG Sodium, Total 3200 87 24. 08/13/10 17:05 08/17/10 09:33 EPA 3050B mg/kg 1 1,6010B MG Thallium, Total ND mg/kg 0.52 2 08/13/10 17:05 08/17/10 11:58 EPA 3050B 1.7 1,6010B MG 14 Vanadium, Total 1,6010B mg/kg 0.44 0.11 1 08/13/10 17:05 08/17/10 09:33 EPA 3050B MG Zinc, Total 13000 220 7.0 08/13/10 17:05 08/17/10 12:04 EPA 3050B

100

1,6010B

MG

Lab Number:

L1012502

Project Number:

AC001

Report Date:

Date Collected:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-10 SP-10-13-025

08/12/10 09:52

Sample Location:

DEVENS, MA

Date Received: 08/12/10

08/13/10 17:05 08/17/10 09:36 EPA 3050B

Matrix:

Soil

Field Prep:

Not Specified

800/

Percent Solids:	89%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	4200		mg/kg	4.5	1.3	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Arsenic, Total	7.5		mg/kg	0.45	0.09	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Barium, Total	12		mg/kg	0.45	0.05	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Beryllium, Total	0.31		mg/kg	0.22	0.01	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.45	0.04	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Calcium, Total	460		mg/kg	4.5	0.81	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Chromium, Total	8.6		mg/kg	0.45	0.05	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Cobalt, Total	2.5		mg/kg	0.90	0.16	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Copper, Total	5.3		mg/kg	0.45	0.05	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Iron, Total	6100		mg/kg	2.2	0.80	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Lead, Total	5.3		mg/kg	2.2	0.06	1.	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1.6010B	MG
Magnesium, Total	1600		mg/kg	4.5	0.52	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Manganese Total	64		mg/kg	0 45	0.02	1	08/13/10 17:0	5 08/17/10 09·36	EPA 3050B	1.6010B	MG
Mercury, Total	ND		mg/kg	80.0	0.02	1	08/16/10 14:30	6 08/17/10 15:27	EPA 7471A	1,7471A	EZ
Nickel, Total	8.2		mg/kg	1.1	0.07	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Potassium, Total	480		mg/kg	110	40	1:	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Selenium, Total	0.14	J	mg/kg	0.90	0.13	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Silver, Total	0.051	J	mg/kg	0.45	0.03	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	90	25.	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Thallium, Total	ND	***	. mg/kg	0.90	0.27	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1,6010B	MG
Vanadium, Total	7.2		mg/kg	0 45	0.11	1	08/13/10 17:0	5 08/17/10 09:36	EPA 3050B	1.6010B	MG

1,6010B

MG

Zinc, Total

20

mg/kg

2.2

0.07

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-11

Client ID: Sample Location: SP-10-13-027 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:55

Date Received:

08/12/10

Field Prep: Not Specified

WIGHTA.	SUII										
Percent Solids:	55%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	1900		mg/kg	7.3	2.2	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Antimony, Total	0.9	J	mg/kg	3.7	0.32	- 1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Arsenic, Total	7.0		mg/kg	0.73	0.15	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Barium, Total	81		mg/kg	0.73	0.09	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Beryllium, Total	0.26	J	mg/kg	0.37	0.02	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Cadmium, Total	0.65	J	mg/kg	0.73	0.06	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Calcium, Total	14000		mg/kg	7.3	1.3	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Chromium, Total	3.9		mg/kg	0.73	0.08	3	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Cobalt, Total	1.6		mg/kg	1.5	0.26	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Copper, Total	15		mg/kg	0.73	0.08	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Iron, Total	9700		mg/kg	3.7	1.3	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Lead, Total	53		mg/kg	3.7	0.10	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Magnesium, Total	990		mg/kg	7.3	0.85	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Manganese, Total	660		mg/kg	0.73	0.03	1	08/13/10 17:08	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Mercury, Total	0.17		mg/kg	0.14	0.03	1	08/16/10 14:36	6 08/17/10 15:28	EPA 7471A	1,7471A	EZ
Nickel, Total	5.5		mg/kg	1.8	0.12	1.	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Potassium, Total	280		mg/kg	180	65.	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Selenium, Total	3.0		mg/kg	1.5	0.20	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Silver, Total	0.35	Ĵ	mg/kg	0.73	0.04	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Sodium, Total	700		mg/kg	150	40.	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	1,5	0.44	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Vanadium, Total	4.3		mg/kg	0.73	0.18	1	08/13/10 17:0	5 08/17/10 09:39	EPA 3050B	1,6010B	MG
Zinc, Total	2000		mg/kg	73	2.3	20	08/13/10 17:0	5 08/17/10 12:01	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

Lab ID: Client ID: L1012502-12

SP-10-13-030 DEVENS, MA Date Collected:

08/13/10 17:05 08/17/10 09:42 EPA 3050B

08/12/10 09:57 08/12/10

Sample Location: Matrix:

Soil

Date Received:

10

mg/kg

2.2

0.07

Prep:
riep.

Not Specified

Percent Solids:	93%					Dilution	B.4.	8.4	-	A	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	2600		mg/kg	4.4	1.3	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Arsenic, Total	0.80		mg/kg	0.44	0.09	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Barium, Total	5.3		mg/kg	0.44	0.05	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Beryllium, Total	0.13	J	mg/kg	0.22	0.01	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.44	0.04	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Calcium, Total	390		mg/kg	4.4	0.79	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Chromium, Total	4.7		mg/kg	0.44	0.05	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Cobalt, Total	1.4		mg/kg	0.88	0.16	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Copper, Total	0.83		mg/kg	0.44	0.05	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Iron, Total	3100		mg/kg	2.2	0.78	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Lead, Total	2.5		mg/kg	22	0 06	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Magnesium, Total	940		mg/kg	44	0.51	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MC
Manganese, Total	35		mg/kg	0.44	0.02	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1.6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	7	08/16/10 14:3	6 08/17/10 15:30	EPA 7471A	1,7471A	EZ
Nickel, Total	3.9		mg/kg	1.1	0.07	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Potassium, Total	160		mg/kg	110	39	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Selenium, Total	0.14	J	mg/kg	0.88	0.12	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Silver, Total	0.042	J	mg/kg	0.44	0.03	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Sodium, Total	ND.		mg/kg	88	24.	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.88	0.26	.1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1,6010B	MG
Vanadium Total	3.4		mg/kg	0 44	0.11	1	08/13/10 17:0	5 08/17/10 09:42	EPA 3050B	1.6010B	MG

SAMPLE RESULTS

1,6010B

MG

Zinc, Total

Lab Number:

L1012502 08/31/10

Project Number:

AC001

Report Date: SAMPLE RESULTS

Lab ID: Client ID: L1012502-13 SP-10-13-032

Date Collected: Date Received:

08/12/10 10:00 08/12/10

Sample Location: Matrix:

DEVENS, MA Soil

Field Prep:

08/13/10 17:05 08/17/10 09:45 EPA 3050B

Not Specified

Percent Solids

Percent Solids:	96%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	2600		mg/kg	4.2	1.2	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Arsenic, Total	1.5		mg/kg	0.42	0.08	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Barium, Total	5.4		mg/kg	0.42	0.05	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,60108	MG
Beryllium, Total	0.19	J	mg/kg	0.21	0.01	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Calcium, Total	550		mg/kg	4.2	0.75	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Chromium, Total	4.6		mg/kg	0.42	0.05	1	08/13/10 17:0	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Cobalt, Total	1.4		mg/kg	0.83	0.15	1	08/13/10 17:0	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Copper, Total	3.1		mg/kg	0.42	0.05	1	08/13/10 17:08	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Iron, Total	3200		mg/kg	2.1	0.74	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Lead, Total	3.6		mg/kg	2.1	0.05	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Magnesium, Total	930		mg/kg	4.2	0.48	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Manganese, Total	34		mg/kg	0.42	0.02	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 15:32	EPA 7471A	1,7471A	EZ
Nickel, Total	5.6		mg/kg	1.0	0.07	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Potassium, Total	320		mg/kg	100	37.	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.83	0.12	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Silver, Total	0.074	J	mg/kg	0.42	0.03	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	83	23.	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.83	0.25	11.	08/13/10 17:05	5 08/17/10 09:45	EPA'3050B	1,6010B	MG'
Vanadium, Total	3.6	2.5	mg/kg	0.42	0.10	1	08/13/10 17:05	5 08/17/10 09:45	EPA 3050B	1,6010B	MG
Section 1 Section 1	.9.										

1,6010B

MG

Zinc, Total

9.8

mg/kg

2.1

0.07

Project Name: SHL TASK 0002 Lab Number: L1012502 **Project Number:** AC001 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: L1012502-14 Date Collected: 08/12/10 10:02 Client ID: SP-10-13-035 Date Received: 08/12/10 Sample Location: DEVENS, MA Field Prep: Not Specified Matrix: Soil

Percent Solids: 79% Dilution Analytical Date Date Prep Factor Prepared Method Parameter Result Qualifier Analyzed Method Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 2800 4.9 1.4 mg/kg 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Antimony, Total ND 2.4 0.21 mg/kg 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Arsenic, Total 1.7 mg/kg 0.49 0.10 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Barium, Total 5.9 mg/kg 0.49 0.06 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Beryllium, Total 0.19 mg/kg 0.24 0.02 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Cadmium, Total ND mg/kg 0.49 0.04 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Calcium, Total 380 mg/kg 4.9 0.88 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Chromium, Total 5.4 mg/kg 0.49 0.05 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Cobalt, Total 1.4 mg/kg 0.97 0.18 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Copper, Total 4.5 mg/kg 0.49 0.05 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Iron, Total 3400 24 1,6010B mg/kg 0.87 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B MG Lead, Total 3.5 24 0.06 08/13/10 17:05 08/17/10 09:48 EPA 3050B mg/kg 1 1,6010B MG Magnesium, Total 1000 4.9 0.56 mg/kg 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B ML Manganese, Total 32 mg/kg 0.49 0.02 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Mercury, Total ND 0.02 mg/kg 0.10 1 08/16/10 14:36 08/17/10 15:37 EPA 7471A 1,7471A EZ Nickel, Total 5.8 mg/kg 12 0.08 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Potassium, Total 330 120 43 mg/kg 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Selenium, Total ND mg/kg 0.97 0.14 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Silver, Total ND 0.49 0.03 mg/kg 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1,6010B MG Sodium, Total 43 mg/kg 97 27. 08/13/10 17:05 08/17/10 09:48 EPA 3050B 1 1,6010B MG Thallium, Total ND mg/kg 0.97 0.29 1,6010B 1 08/13/10 17:05 08/17/10 09:48 EPA 3050B MG Vanadium, Total

1.6010B

1,6010B

MG

MG

Zinc, Total

3.7

9.5

mg/kg

mg/kg

0.49

2.4

0.12

0.08

1

08/13/10 17:05 08/17/10 09:48 EPA 3050B

08/13/10 17:05 08/17/10 09:48 EPA 3050B

Project Name: SHL TASK 0002 Lab Number: L1012502

Project Number: AC001 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: L1012502-15 Date Collected: 08/12/10 10:05 Client ID: SP-10-13-040 Date Received: 08/12/10 Sample Location: DEVENS, MA Field Prep: Not Specified

Matrix: Soil

73% Percent Solids: Dilution Analytical Date Date Prep Factor Prepared Analyzed Method Method Parameter Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 9300 mg/kg 5.6 1.6 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Antimony, Total ND mg/kg 2.8 0.24 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Arsenic, Total 5.9 mg/kg 0.56 0.11 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Barium, Total 27 08/13/10 17:05 08/17/10 10:03 EPA 3050B mg/kg 0.56 0.07 1 1,6010B MG Beryllium, Total 0.84 mg/kg 0.28 0.02 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Cadmium, Total ND mg/kg 0.56 0.05 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1.6010B MG Calcium, Total 2500 mg/kg 5.6 1.0 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Chromium, Total 48 mg/kg 0.56 0.06 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Cobalt, Total 5.9 mg/kg 1.1 0.20 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Copper, Total 71 mg/kg 0.56 0.06 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Iron, Total 16000 08/13/10 17:05 08/17/10 10:03 EPA 3050B mg/kg 2.8 0.99 1 1,6010B MG Lead, Total 13 mg/kg 2.8 0.07 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Magnesium, Total 3400 5.6 0.65 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B mg/kg 1 MG Manganese, Total 150 mg/kg 0.56 0.02 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Mercury, Total ND 0.10 0.02 08/16/10 14:36 08/17/10 15:39 EPA 7471A 1,7471A mg/kg EZ Nickel, Total 23 mg/kg 1.4 0.09 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG 1400 Potassium, Total mg/kg 140 49. 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Selenium, Total ND mg/kg 1.1 0.16 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Silver, Total 0.08 J mg/kg 0.56 0.03 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG 150 Sodium, Total mg/kg 110 31. 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Thallium, Total ND mg/kg 1.1 0.33 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Vanadium, Total 14 mg/kg 0.56 0.14 1 08/13/10 17:05 08/17/10 10:03 EPA 3050B 1,6010B MG Zinc, Total 34 08/13/10 17:05 08/17/10 10:03 EPA 3050B mg/kg 2.8 0.09 1 1,6010B MG

Project Name: SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

Lab ID: Client ID: L1012502-16

SP-10-13-065 DEVENS, MA

Date Collected: Date Received:

08/12/10 10:07

Sample Location:

08/12/10

Field Prep:

Not Specified

Matrix:	Soil
Percent Solids:	92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	2500	J	mg/kg	4.3	1.3	1	08/13/10 17:05	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/13/10 17:05	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Arsenic, Total	3.8		mg/kg	0.43	0.09	1	08/13/10 17:0	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Barium, Total	9.1		mg/kg	0.43	0.05	1	08/13/10 17:05	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Beryllium, Total	0.19	J.	mg/kg	0.21	0.01	1	08/13/10 17:05	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	0.03	1	08/13/10 17:0	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Calcium, Total	420		mg/kg	4.3	0.77	1	08/13/10 17:0	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Chromium, Total	4.6	J	mg/kg	0.43	0.05	1	08/13/10 17:0	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Cobalt, Total	1.4		mg/kg	0.86	0.15	1	08/13/10 17:0	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Copper, Total	3.9		mg/kg	0.43	0.05	1	08/13/10 17:08	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Iron, Total	3900	J	mg/kg	2.1	0.76	1	08/13/10 17:05	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Lead, Total	3.3		mg/kg	21	0.06	1	08/13/10 17:0	5 08/17/10 08:42	EPA 3050B	1.6010B	MG
Magnesium, Total	930	J	mg/kg	4.3	0.50	1	08/13/10 17:08	5 08/17/10 08:42	EPA 3050B	1,6010B	Mc
Manganese, Total	33	J.	mg/kg	0.43	0.02	1	08/13/10 17:09	5 08/17/10 08:42	EPA 3050B	1.6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 15:41	EPA 7471A	1,7471A	EZ
Nickel, Total	5.6		mg/kg	1.1	0.07	1	08/13/10 17:05	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Potassium, Total	320		mg/kg	110	38	1	08/13/10 17:09	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.86	0.12	1	08/13/10 17:08	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.43	0.03	1	08/13/10 17:09	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	86	24.	1	0,8/13/10 17:09	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.86	0.26	.1	08/13/10 17:08	5 08/17/10 08:42	EPA 3050B	1,6010B	MG
Vanadium, Total	3.8		mg/kg	0 43	0.11	1		5 08/17/10 08:42		1.6010B	MG
Zinc, Total	8.1		mg/kg	2.1	0.07	1	08/13/10 17:05	5 08/17/10 08:42	EPA 3050B	1,6010B	MG

SAMPLE RESULTS

Project Name: SHL TASK 0002 Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

Lab ID: Client ID: L1012502-17

SP-10-13-067 DEVENS, MA Date Collected: Date Received: 08/12/10 10:10 08/12/10

Matrix:

Soil

Percent Solids

Sample Location:

84%

Field Prep:

Not Specified

Percent Solids:	84%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	3200		mg/kg	4.5	1.3	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.3	0.20	1	08/13/10 17:09	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Arsenic, Total	5.6		mg/kg	0.45	0.09	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Barium, Total	12		mg/kg	0.45	0.05	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Beryllium, Total	0.23		mg/kg	0.23	0.01	1.	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.45	0.04	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Calcium, Total	450		mg/kg	4.5	0.82	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Chromium, Total	5.9		mg/kg	0.45	0.05	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Cobalt, Total	1.7		mg/kg	0.91	0.16	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Copper, Total	4.7		mg/kg	0.45	0.05	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Iron, Total	5400		mg/kg	2.3	0.81	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Lead, Total	4.5		mg/kg	2.3	0.06	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	4.5	0.53	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Manganese, Total	42		mg/kg	0.45	0.02	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:30	6 08/17/10 15:46	EPA 7471A	1,7471A	EZ
Nickel, Total	7.2		mg/kg	1.1	0.07	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Potassium, Total	380		mg/kg	110	40	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.91	0.13	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.45	0.03	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Sodium, Total	25	J	mg/kg	91	25.	1	08/13/10 17:08	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Thallium, Total	ND "		mg/kg	0.91	0.27	1	08/13/10 17:0	5 08/17/10 10:06	'EPA 3050B	1,6010B	- MG
Vanadium, Total	4.8	\$12. ±	mg/kg	0.45	0.11		08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG
Zinc, Total	10		mg/kg	2.3	0.07	1	08/13/10 17:0	5 08/17/10 10:06	EPA 3050B	1,6010B	MG

SAMPLE RESULTS

Project Name:

SHL TASK 0002

Lab Number:

L1012502

Project Number:

Sample Location:

AC001

Report Date:

08/31/10

Lab ID: Client ID: L1012502-18

SP-10-13-070

DEVENS, MA

Date Collected:

08/12/10 10:15

Date Received: Field Prep:

08/12/10 Not Specified

Matrix:

Soil

Percent Solids:	96%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	4900		mg/kg	4.0	1.2	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.0	0.17	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Arsenic, Total	9.4		mg/kg	0.40	0.08	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Barium, Total	12		mg/kg	0.40	0.05	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Beryllium, Total	0.33		mg/kg	0.20	0.01	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Calcium, Total	360		mg/kg	4.0	0.72	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Chromium, Total	13		mg/kg	0.40	0.04	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Cobalt, Total	4.3		mg/kg	0.80	0.14	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Copper, Total	6.2		mg/kg	0.40	0.04		08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Iron, Total	8500		mg/kg	2.0	0.71	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Lead, Total	7.1		mg/kg	2.0	0.05	- 1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,60108	MG
Magnesium, Total	2200		mg/kg	4.0	0.46	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	ML
Manganese Total	82		mg/kg	0 40	0 02	1	08/13/10 17:0	5 08/17/10 10 12	EPA 3050B	1.6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:3	6 08/17/10 15:48	EPA 7471A	1,7471A	EZ
Nickel, Total	9.2		mg/kg	1.0	0.06	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Potassium, Total	450		mg/kg	100	35	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.80	0.11	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Silver, Total	0.13	J	mg/kg	0.40	0.02	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	80	22.	1	08/13/10 17:0	5 08/17/10 10;12	EPA 3050B	1,6010B	MG
Thallium, Total	ND	- 4	mg/kg	0.80	0.24	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Vanadium, Total	8.1		mg/kg	0.40	0.10	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG
Zinc, Total	15		mg/kg	2.0	0.06	1	08/13/10 17:0	5 08/17/10 10:12	EPA 3050B	1,6010B	MG

SAMPLE RESULTS

Project Name: SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-19

SDUP4-081210

Sample Location:

DEVENS, MA

Soil

Date Collected:

08/12/10 10:00

Date Received: Field Prep:

08/12/10 Not Specified

Parcent Solide

Matrix: 9/10/

Percent Solids:	94%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough I	_ab									
Aluminum, Total	2500		mg/kg	4.2	1.2	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/13/10 17:05	5 08/17/10 10:15	EPA 3050B	1,60108	MG
Arsenic, Total	1.6		mg/kg	0.42	0.08	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Barium, Total	5.2		mg/kg	0.42	0.05	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Beryllium, Total	0.19	J	mg/kg	0.21	0.01	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Calcium, Total	600		mg/kg	4.2	0.76	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Chromium, Total	4.4		mg/kg	0.42	0.05	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Cobalt, Total	1.3		mg/kg	0.84	0.15	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Copper, Total	2.7		mg/kg	0.42	0.05	-1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Iron, Total	3100		mg/kg	2.1	0.74	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Lead, Total	3,5		mg/kg	2.1	0.05	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Magnesium, Total	900		mg/kg	4.2	0.48	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Manganese, Total	34		mg/kg	0.42	0.02	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/16/10 14:30	5 08/17/10 15:50	EPA 7471A	1,7471A	EZ
Nickel, Total	5.3		mg/kg	1,0	0.07	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Potassium, Total	310		mg/kg	100	37	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.84	0.12	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.42	0.03	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	84	23.	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,60108	MG
Thallium, Total	ND	11	mg/kg	0.84	0.25	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Vanadium, Total	3.4		mg/kg	0.42	0.10	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG
Zinc, Total	9.1		mg/kg	2.1	0.07	1	08/13/10 17:0	5 08/17/10 10:15	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012502

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012502-20
 Date Collected:
 08/12/10 10:12

 Client ID:
 SDUP5-081210
 Date Received:
 08/12/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

Matrix: Soil
Percent Solids: 85%

Percent Solids:	85%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Wes	tborough L	_ab									
Aluminum, Total	3000		mg/kg	4.7	1.4	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.4	0.20	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Arsenic, Total	5.4		mg/kg	0.47	0.09	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Barium, Total	13		mg/kg	0.47	0.06	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Beryllium, Total	0.24		mg/kg	0.24	0.01	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0,47	0.04	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Calcium, Total	500		mg/kg	4.7	0.86	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Chromium, Total	5.3		mg/kg	0.47	0.05	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Cobalt, Total	1.8		mg/kg	0.94	0.17	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Copper, Total	4.5		mg/kg	0.47	0.05	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Iron, Total	4900		mg/kg	2.4	0.84	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Lead, Total	4.0		mg/kg	2.4	0.06	1	08/13/10 17:09	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Magnesium, Total	1100		mg/kg	4.7	0.55	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MC
Manganese, Total	39		mg/kg	0.47	0 02	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1.6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/16/10 14:36	6 08/17/10 15:52	EPA 7471A	1,7471A	EZ
Nickel, Total	6.7		mg/kg	1.2	0.08	-1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Potassium, Total	430		mg/kg	120	42.	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.94	0.13	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Silver, Total	ND		mg/kg	0.47	0.03	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	94	26.	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.94	0.28	. 1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG
Vanadium, Total	4.5		mg/kg	0.47	0 12	1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1.6010B	MG
Zinc, Total	9.8		mg/kg	2.4	0.08	- 1	08/13/10 17:05	5 08/17/10 10:18	EPA 3050B	1,6010B	MG

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

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 for sample(s):	01-20	Batch:	WG42	7615-1				
Aluminum, Total	ND	mg/kg	4.0	1.2	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Antimony, Total	ND	mg/kg	2.0	0.17	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Arsenic, Total	ND	mg/kg	0.40	0.08	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Barium, Total	ND	mg/kg	0.40	0.05	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Beryllium, Total	ND	mg/kg	0.20	0.01	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Cadmium, Total	ND	mg/kg	0.40	0.03	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Calcium, Total	ND	mg/kg	4.0	0.72	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Chromium, Total	ND	mg/kg	0.40	0.04	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Cobalt, Total	ND	mg/kg	0.80	0.14	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Copper, Total	ND	mg/kg	0.40	0.04	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Iron, Total	ND	mg/kg	2.0	0.71	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Lead, Total	ND	mg/kg	2.0	0.05	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Magnesium, Total	ND	mg/kg	4.0	0.46	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Manganese, Total	ND	mg/kg	0.40	0.02	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
lickel, Total	ND	mg/kg	1.0	0.06	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Potassium, Total	ND	mg/kg	100	35	1	08/13/10 17:05	08/17/10 08:09	1.6010B	MG
Selenium, Total	ND	mg/kg	0.80	0.11	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Silver, Total	ND	mg/kg	0.40	0.02	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Sodium, Total	ND	mg/kg	80	22,	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Thallium, Total	ND	mg/kg	0.80	0.24	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Vanadium, Total	ND	mg/kg	0.40	0.10	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
Zinc, Total	ND	mg/kg	2.0	0.06	1	08/13/10 17:05	08/17/10 08:09	1,6010B	MG
and the same of the A		0. 0							

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Westborou	gh Lab for sample	(s): 01-20	Batch:	WG42	7862-1				
Mercury, Total	ND	mg/kg	0.08	0.02	1	08/16/10 14:36	08/17/10 15:03	3 1,7471A	EZ



Project Name: SHL TASK 0002

L1012502

Project Number: AC001

Lab Number: Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471A

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012502

Report Date:

Parameter	LCS. %Recovery Qu	LCSD ual %Recovery Qual	%Recovery Limits	RPD	Qual	RPD Limits
Γotal Metals - Westborough Lab	Associated sample(s): 01-20	Batch: WG427615-2				
Aluminum, Total	97		80-120	4		
Antimony, Total	.97	6	80-120			
Arsenic, Total	102	*	80-120			
Barium, Total	95	*	80-120	0.0		
Beryllium, Total	102		80-120			
Cadmium, Total	105	+	80-120			
Calcium, Total	89	*	80-120			
Chromium, Total	97		80-120			
Cobalt, Total	.97		80-120	100		
Copper, Total	99		80-120			
Iron, Total	104		80-120			
Lead, Total	.100		80-120			
Magnesium, Total	94	4	80-120			
Manganese, Total	97	3	80-120			
Nickel, Total	97	-	80-120	2		
Potassium, Total	89	4	80-120	1.5		
Selenium, Total	98		80-120			
Silver, Total	102	*	75-120	-		
Sodium, Total	102		80-120	-		
Thallium, Total	100	4	80-120			
Vanadium, Total	97 ;		80-120	4		

Lab Control Sample Analysis Batch Quality Control

SHL TASK 0002

Project Number: AC001

Project Name:

Lab Number:

L1012502

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 01-20	Batch: WG427615-2			
Zinc, Total	92	8	80-120	-	
Total Metals - Westborough Lab	Associated sample(s): 01-20	Batch: WG427862-2			
Mercury, Total	111	12.0	80-120	*	20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012502

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recov		Recovery Limits	RPD	Qua	RPD Limits
Total Metals - Westborough L 065	_ab Associated	sample(s): 0	1-20 QC	Batch ID: WG	427615-	3 WG4276	15-4 QC	Sample:	L1012502-16	Clien	nt ID:	SP-10-13
Aluminum, Total	2500	86.8	4100	1840		2600	113		80-120	45	Q	20
Antimony, Total	ND	21.7	15	69	Q	15	68	Q	80-120	0		20
Arsenic, Total	3.8	5.21	8.2	84		8.2	83		80-120	0		20
Barium, Total	9.1	86.8	88	91		89	90		80-120	1		20
Beryllium, Total	ND	2.17	2.4	110		2.3	104		80-120	4		20
Cadmium, Total	ND	2.21	2.1	95		2.2	98		80-120	5		20
Calcium, Total	420	434	790	85		700	63		80-120	12		20
Chromium, Total	4.6	8.68	17	143	Q	13	95		80-120	27	Q	20
Cobalt, Total	1.4	21.7	22	95		22	93		80-120	0		20
Copper, Total	3.9	10.8	16	111		14	92		80-120	13		20
Iron, Total	3900	43.4	6700	6450		3900	0		80-120	53	Q	20
Lead, Total	3.3	22.1	26	102		24	92		80-120	8		20
Magnesium, Total	930	434	2300	316	Q	1400	106		80-120	49	Q	20
Manganese, Total	33	21.7.	79	212	Q	53	91		80-120	39	Q	20
Nickel, Total	5.6	21.7	28	103		25	88		80-120	11		20
Potassium, Total	320	434	760	101		710	88		80-120	7		20
Selenium, Total	ND	5.21	5.0	96		5.1	96		80-120	2		20
Silver, Total	ND	13	13	100		14	106		75-120	7		20
Sodium, Total	ND	434	510	117		490	111		80-120	4		20
Thallium, Total	ND	5.21	5.0	96		5.0	94		80-120	0		20
Vanadium, Total	3.8	21.7	27	107		24	92		80-120	12		20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012502

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab 065	Associated	sample(s): 0	1-20 QC	Batch ID: WG4276	15-3 WG42761	5-4 QC Samp	ole: L1012502-16	Client ID:	SP-10-13
Zinc, Total	8.1	21.7	33	115	28	90	80-120	16	20
Total Metals - Westborough Lab 065	Associated	sample(s): 0	1-20 QC	Batch ID: WG4278	62-3 WG42786	2-4 QC Samp	e: L1012502-16	Client ID:	SP-10-13
Mercury, Total	ND	0.148	0.15	101	0.17	100	80-120	13	20

INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012502-01 SP-10-13-001

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:30

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.057		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	0.061		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	100		%	0.10	NA	1	76	08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-02

Client ID:

SP-10-13-005

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:33

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.332		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	0.320		%	0.010	0.010	1	4	08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	93		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012502

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-03

Client ID:

SP-10-13-008 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 09:35

Date Received:

08/12/10

Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.570		%	0.010	0.010	1		08/21/10 07:00	1,9060	NR
Total Organic Carbon (Rep2)	0.396		%	0.010	0.010	1		08/21/10 07:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	94		%	0.10	NA	1	4	08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-04

Client ID:

SP-10-13-010 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 09:37

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
, 4.4///		3.000								randiyot
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.075		%	0.010	0.010	1	-	08/19/10 11:09	1,9060	NR
Total Organic Carbon (Rep2)	0.090		%	0.010	0.010	1	+	08/19/10 11:09	1,9060	NR
General Chemistry - West	borough Lab	r.								
Solids, Total	93		%	0.10	NA	1	4	08/13/10 17:25	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012502

Project Number: AC001

Sample Location:

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-05

Client ID:

SP-10-13-011 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:40

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1		08/21/10 07:00	1,9060	NR
Total Organic Carbon (Rep2)	0.014		%	0.010	0.010	1		08/21/10 07:00	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	99		%	0.10	NA	1	4	08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-06

Client ID:

SP-10-13-015

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:42

Date Received:

08/12/10

Field Prep:

DIA	Qualifica	llmian.	DI	MDI	Dilution	Date Prepared	Date	Analytical Method	
Result	Qualmer	Units	KL	MOL	, 40101	repared	Allalyzeu	Metriou	Analyst
ansfield Lab									
0.020		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
0.023		%	0.010	0.010	1	-	08/20/10 11:44	1,9060	NR
borough Lab									
93		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC
	0.023 borough Lab	ansfield Lab 0.020 0.023 borough Lab	ansfield Lab 0.020 % 0.023 % borough Lab	ansfield Lab 0.020 % 0.010 0.023 % 0.010 borough Lab	ansfield Lab 0.020 % 0.010 0.010 0.023 % 0.010 0.010 borough Lab	Result Qualifier Units RL MDL Factor ansfield Lab 0.020 % 0.010 0.010 1 0.023 % 0.010 0.010 1 aborough Lab abor	Result Qualifier Units RL MDL Factor Prepared ansfield Lab 0.020 % 0.010 0.010 1 - 0.023 % 0.010 0.010 1 - aborough Lab % 0.40 NA 4	Result Qualifier Units RL MDL Factor Prepared Analyzed ansfield Lab 0.020 % 0.010 0.010 1 - 08/20/10 11:44 0.023 % 0.010 0.010 1 - 08/20/10 11:44 aborough Lab % 0.10 NA 1 - 00/43/40 47:05	Result Qualifier Units RL MDL Factor Prepared Analyzed Method ansfield Lab 0.020 % 0.010 0.010 1 - 08/20/10 11:44 1,9060 0.023 % 0.010 0.010 1 - 08/20/10 11:44 1,9060 aborough Lab % 0.10 NA 1 0.043/40.47.05 20.05400

Project Name: SHL TASK 0002

Lab Number:

L1012502

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-07

Client ID: Sample Location: DEVENS, MA

SP-10-13-017

Matrix:

Soil

Date Collected:

08/12/10 09:45

Date Received:

08/12/10

Field Prep:

te Analytical
yzed Method Analys
0 11:09 1,9060 NR
0 11:09 1,9060 NR
0 17:25 30,2540G AC
11

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-08

Client ID:

SP-10-13-020

Sample Location: DEVENS, MA Matrix:

Soil

Date Collected:

08/12/10 09:47

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.061		%	0.010	0.010	1		08/19/10 11:09	1,9060	NR
Total Organic Carbon (Rep2)	0.073		%	0.010	0.010	1		08/19/10 11:09	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	95		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012502

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-09

Client ID:

SP-10-13-023

Sample Location: DEVENS, MA Matrix:

Soil

Date Collected:

08/12/10 09:50

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	5.37		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	5.50		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	90		%	0.10	NA	1	- 1	08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-10

Client ID:

SP-10-13-025

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:52

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.343		%	0.010	0.010	1		08/19/10 11:09	1,9060	NR
Total Organic Carbon (Rep2)	0.324		%	0.010	0.010	1		08/19/10 11:09	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	89		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-11

Client ID:

SP-10-13-027 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 09:55

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	12.5		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	12.2		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab	i)								
Solids, Total	55		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-12

Client ID:

SP-10-13-030

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 09:57

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	9.48		%	0.010	0.010	1	14	08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	7.37		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	93		%	0.10	NA	1	*	08/13/10 17:25	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012502

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-13

Client ID:

SP-10-13-032

Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:00

Date Received:

08/12/10

Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.102		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	0.082		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	96		%	0.10	NA	1	19	08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-14

Client ID:

SP-10-13-035

Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:02

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.225		%	0.010	0.010	1	-	08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	0.166		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab	1								
Solids, Total	79		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002 Lab Number:

L1012502

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-15

Client ID: Sample Location:

SP-10-13-040 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:05

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.412		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	0.410		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	73		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-16

Client ID:

SP-10-13-065

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:07

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifler	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - M	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	+	08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	tborough Lab									
Solids, Total	92		%	0.10	NA	1	*	08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-17

Client ID:

SP-10-13-067 Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:10

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1	4	08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab									
Solids, Total	84		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-18

Client ID:

SP-10-13-070

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:15

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	0.017		%	0.010	0.010	1	*	08/20/10 11:44	1,9060	NR
General Chemistry - West	borough Lab)								
Solids, Total	96		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-19

Client ID: Sample Location:

SDUP4-081210 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:00

Date Received:

08/12/10

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 0.10 NA 08/13/10 17:25 30,2540G AC

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012502

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012502-20

Client ID:

SDUP5-081210

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 10:12

Date Received:

08/12/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab	6								
Solids, Total	85		%	0.10	NA	1		08/13/10 17:25	30,2540G	AC

Project Name:

SHL TASK 0002

Lab Number:

L1012502

08/31/10

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
Total Organic Carbon - M	ansfield Lab for samp	ole(s): 01-	-02,06,09	,11-18	Batch: Wo	G427742-1			
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		08/20/10 11:44	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1	19	08/20/10 11:44	1,9060	NR
Total Organic Carbon - M	ansfield Lab for samp	ole(s): 04	,07-08,10	Batch	: WG4287	38-1			
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		08/19/10 11:09	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1	÷	08/19/10 11:09	1,9060	NR
Total Organic Carbon - M	ansfield Lab for samp	ole(s): 03	,05 Bato	h: WG	428757-1				
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1	(4)	08/21/10 07:00	1,9060	NR
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1		08/21/10 07:00	1,9060	NR

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1012502

Report Date:

08/31/10

Parameter		ative Samp	ole Duplicate Samp	le Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s	s): 01-20	QC Batch ID: WG427600-1	QC Sample:	L1012502-01	Client ID:	SP-10-13-001
Solids, Total		100	100	%	0		20

Project Name:

Project Number: AC001

SHL TASK 0002

Project Name:

SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG427742-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	91		75-125
Total Organic Carbon (Rep2)	98		75-125

Project Name:

SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG428738-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	100		75-125
Total Organic Carbon (Rep2)	109		75-125

SHL TASK 0002

Lab Number:

L1012502

Project Number:

AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG428757-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	119		75-125
Total Organic Carbon (Rep2)	111		75-125



Serial_No:08311012:14

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1012502

Report Date: 08/31/10

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(*)
L1012502-01A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012502-01X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012502 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-02A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012502-02X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012502-03A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
	e to the second	*			b.	, .	6010T(180),DOD-ZN-
S LOVER LOW-	- A'			* Y. * *		** **	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012502-03X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012502

Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-04A	Amber 250ml unpreserved	A	N/A	2.7	Ÿ	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-CN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012502-04X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012502-05A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-BB-6010T(180),DOD-BB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
	g 14 4 5 5				0.4	942 - A	6010T(180),DOD-ZN-
** 3 *	arts of the second	* * *	× 4	**	- 10	e ege.	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012502-05X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012502 Report Date: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-06A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-CN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180)
L1012502-06X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012502-07A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-
						4 0	# 6010T(180);DOD-ZN-
345 1949	Marin Marin 1999	448	15-	* *3.99		\$4. * · · · ·	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012502-07X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012502 **Report Date**: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-08A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-CR-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012502-08X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012502-09A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-
	00 t + 3 4" (cr		7.			v.	6010T(180),DOD-ZN-
		5	ž	36.0		7.4	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012502-09X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012502 Report Date: 08/31/10

Container Information Temp Container ID deg C **Container Type** Pres Seal Cooler pH Analysis(*) L1012502-10A Amber 250ml unpreserved 2.7 N/A Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180), DOD-MG-6010T(180), DOD-AG-6010T(180),DOD-K-6010T(180), DOD-BA-6010T(180), DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180), DOD-SB-6010T(180), DOD-AL-6010T(180), DOD-CO-6010T(180), DOD-V-6010T(180), DOD-ZN-6010T(180), DOD-BE-6010T(180), DOD-CR-6010T(180) L1012502-10X Glass 100ml unpreserved split A N/A 2.7 Present/Intact A2-TOC-9060-2REPS(28) L1012502-11A Amber 250ml unpreserved A N/A 2.7 Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180), DOD-MG-6010T(180), DOD-AG-6010T(180), DOD-K-6010T(180), DOD-BA-6010T(180),DOD-CU-6010T(180) DOD-CD-6010T(180), DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL 6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180), DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180), DOD-ZN-6010T(180), DOD-BE-0.00 6010T(180), DOD-CR-6010T(180) L1012502-11X Glass 100ml unpreserved split

Present/Intact

A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012502 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-12A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),TOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012502-12X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012502-13A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-HG-7471(28),DOD-TL-6010T(180),TOD-NA-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
60	\$4. 3 No. 4. 4.	200					6010T(180),DQD-ZN-
4 200	and an artist	2.0	14		5	a et	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012502-13X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

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Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-14A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012502-14X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012502-15A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NB-6010T(180),DOD-NB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(18
9 of 4 1	v gr d v er a		9.3		8.7	3.5	6010T(180), DOD-ZN-
a me of the	Take 1	0.5		8	* .	1 / 4 1	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012502-15X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

Project Number: AC001

Lab Number: L1012502 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-16A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012502-16X	Amber 250ml unpreserved	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)
L1012502-17A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
	4.7	1000	100		4 14	4 4	6010T(180),DOD-ZN-
	POR T THE LINE	8.5		V	a2 1	m - 3 × 4 · ·	6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)
L1012502-17X	Glass 100ml unpreserved split	Α	N/A	2.7	Y	Present/Intact	A2-TOC-9060-2REPS(28)

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6010T(180), DOD-CU-6010T(180), DOD-CD-6010T(180), DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL-6010T(180), DOD-NI-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180), DOD-SB-6010T(180), DOD-AL-6010T(180), DOD-CO-6010T(180), DOD-CO-6010T(180), DOD-CO-6010T(180), DOD-ZN-6010T(180), DOD-ZN-6010T(180), DOD-ZN-6010T(180), DOD-CR-6010T(180), DOD

6010T(180)

Container Information Temp **Container ID Container Type** Cooler deg C Pres pH Seal Analysis(*) L1012502-18A Amber 250ml unpreserved N/A 2.7 Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180), DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180), DOD-CD-6010T(180), DOD-HG-7471(28), DOD-NA-6010T(180), DOD-TL-6010T(180),TS(7),DOD-SE-6010T(180), DOD-MN-6010T(180), DOD-NI-6010T(180), DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180), DOD-CO-6010T(180),DOD-V-6010T(180), DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180) L1012502-18X Glass 100ml unpreserved split N/A 2.7 Present/Intact A2-TOC-9060-2REPS(28) L1012502-19A Amber 250ml unpreserved N/A 2.7 Present/Intact DOD-AS-6010T(180), DOD-CA-6010T(180), DOD-FE-6010T(180),DOD-MG-6010T(180), DOD-AG-6010T(180), DOD-K-6010T(180), DOD-BA-

ΔLPHA

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Project Name: SHL TASK 0002

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Lab Number: L1012502 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012502-20A	Amber 250ml unpreserved	A	N/A	2.7	Y	Present/Intact	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-HL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)

SHL TASK 0002

Lab Number:

L1012502

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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.

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.
- 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

ALPHA

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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

ALPHA

SHL TASK 0002

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Report Date:

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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.



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 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, 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, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500NH3-B, 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 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 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 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.

Certificate/Approval Program Summary

Last revised July 19, 2010 - Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, <u>Organic Parameters</u>: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 <u>Organic Parameters</u>: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

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Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

0.72.75

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

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WESTBORO, MA	MANSFIELD, MA	Project Informa	tion			Report In	format			_		ng Information	
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ANALYTICAL REPORT

Lab Number:

L1012639

Client:

Sovereign Consulting

905B South Main Street

Mansfield, MA 02048

ATTN:

Neil Schofield

Phone:

(508) 339-3200

Project Name:

SHL TASK 0002

Project Number:

AC001

Report Date:

08/31/10

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:

L1012639

Report Date:

08/31/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1012639-01	SP-10-11-003	DEVENS, MA	08/12/10 08:00
L1012639-02	SP-10-11-005	DEVENS, MA	08/12/10 08:02
L1012639-03	SP-10-11-007	DEVENS, MA	08/12/10 08:05
L1012639-04	SP-10-11-012	DEVENS, MA	08/12/10 08:07
L1012639-05	SP-10-11-015	DEVENS, MA	08/12/10 08:10
L1012639-06	SP-10-11-020	DEVENS, MA	08/12/10 08:15
L1012639-07	SP-10-11-023	DEVENS, MA	08/12/10 08:18
L1012639-08	SP-10-11-025	DEVENS, MA	08/12/10 08:20
L1012639-09	SP-10-11-033	DEVENS, MA	08/12/10 08:22
L1012639-10	SP-10-11-040	DEVENS, MA	08/12/10 08:25
L1012639-11	SP-10-11-055	DEVENS, MA	08/12/10 08:27
L1012639-12	SP-10-11-062	DEVENS, MA	08/12/10 08:30
L1012639-13	SDUP-081210	DEVENS, MA	08/12/10 08:15
L1012639-14	SDUP8-081210	DEVENS, MA	08/12/10 08:20

SHL TASK 0002

Lab Number:

L1012639

Project Number:

AC001

Report Date:

08/31/10

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 replaces the report issued on August 26, 2010. The report has been amended to correct the MDL for Mercury and revise the Mercury results reported for samples L1012639-03 and -04.

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

Sample Receipt

L1012639-01 through -05 and -07 through -12 were received without a separate container for the Total Organic Carbon analysis. An aliquot was taken from an unpreserved container and sent to the Mansfield Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1012639

Report Date:

08/31/10

Case Narrative (continued)

laboratory for analysis.

Metals

L1012639-12 has an elevated detection limit for Selenium due to the dilution required by non-target analyte spectral interferences encountered during analysis.

The WG428048-1 Method Blank, associated with L1012639-01 through -14, has a concentration greater than one half the reporting limit for Iron. The results in the associated samples are greater than 10x the Method Blank concentration; therefore, no qualification of results was performed.

The WG428048-3/-4 MS/MSD recoveries for Aluminum (0%/0%), Iron (0%/0%), Magnesium (0%/0%) and Manganese (198%/0%), performed on L1012639-06, are invalid because the sample concentrations are greater than four times the spike amount added.

The WG428048-3/-4 MS/MSD recoveries, performed on L1012639-06, are outside the acceptance criteria for Antimony (54%/54%), Barium (67%/66%), Cadmium (MS at 209%), Calcium (79%/62%), Chromium (MSD at 74%), Copper (MSD at 69%), Potassium (MSD at 79%), Sodium (129%/121%) and Zinc (MSD at 74%). A post digestion spike was performed with acceptable recoveries of Antimony (91%), Barium (78%), Cadmium (89%), Calcium (76%), Chromium (76%), Copper (91%), Potassium (81%), Sodium (116%) and Zinc (81%). L1012639-06 is qualified as "J" for Barium, Cadmium, Calcium, Chromium, Copper, Potassium and Zinc. The WG428048-3/-4 MS/MSD RPDs, performed on L1012639-06, are above the acceptance criteria for Cadmium (44%) and Manganese (31%). The parent sample (L1012639-06) is qualified as "J" for Manganese.

Total Organic Carbon

The WG428038-4 MS recovery, performed on L1012639-06, is outside the acceptance criteria for Total Organic Carbon (REP 1) (183%); however, the associated SRM recoveries are within criteria. No further action was required.

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. Unamy Michelle M. Morris

Title: Technical Director/Representative

Date: 08/31/10

METALS



SHL TASK 0002

Lab Number:

L1012639

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-01

Client ID:

SP-10-11-003

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:00

Date Received:

08/16/10

Field Prep:

Not Specified

Percent Solids:	92%					Dilution	Date	Data	D	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Prep Method	Method	Analyst
Total Metals - West	lborough l	_ab									
Aluminum, Total	3300		mg/kg	4.3	1.3	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Arsenic, Total	6.6		mg/kg	0.43	0.09	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Barium, Total	8.9		mg/kg	0.43	0.05	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Beryllium, Total	0.32		mg/kg	0.22	0.01	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.43	0.04	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Calcium, Total	320		mg/kg	4.3	0.78	1	08/17/10 13:10	08/23/10 10:54	EPA 3050B	1,6010B	MG
Chromium, Total	6.4		mg/kg	0.43	0.05	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Cobalt, Total	2.1		mg/kg	0.87	0.16	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Copper, Total	6.8		mg/kg	0,43	0.05	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Iron, Total	5300		mg/kg	2.2	0.77	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Lead, Total	5,9		mg/kg	2.2	0.06	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	4.3	0.50	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Manganese, Total	89		mg/kg	0.43	0.02	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.07	0.02	1	08/20/10 17:10	0 08/23/10 12:42	EPA 7471A	1,7471A	EZ
Nickel, Total	6.1		mg/kg	1.1	0.07	1.1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Potassium, Total	500		mg/kg	110	38.	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.87	0.12	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Silver, Total	3.5		mg/kg	0.43	0.03	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Sodium, Total	ND		mg/kg	87	24.	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG
Thallium, Total	ND -		mig/kg	0.87	- 0.26	% 1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	·MG
Vanadium, Total	5.3		mg/kg	0.43	0.11	1	08/17/10 13:10	0 08/23/10 10:54	EPA 3050B	1,6010B	MG

2.2

0.07

mg/kg

1,6010B

MG

08/17/10 13:10 08/23/10 10:54 EPA 3050B

Zinc, Total

13

Project Number: AC001 Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012639-02

Sample Location:

SP-10-11-005 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:02 08/16/10

Date Received: Field Prep:

Not Specified

Maula.	3011										
Percent Solids:	94%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - We	stborough l	_ab									
Aluminum, Total	5600		mg/kg	4.2	1.2	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Antimony, Total	0.3	J	mg/kg	2.1	0.18	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Arsenic, Total	11		mg/kg	0.42	0.09	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Barium, Total	86		mg/kg	0.42	0.05	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Beryllium, Total	0.52		mg/kg	0.21	0.01	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Cadmium, Total	0.21	J	mg/kg	0.42	0.03	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Calcium, Total	1000		mg/kg	4.2	0.77	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Chromium, Total	14		mg/kg	0.42	0.05	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Cobalt, Total	3.5		mg/kg	0.85	0.15	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Copper, Total	8_1		mg/kg	0.42	0.05	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Iron, Total	9700		mg/kg	2.1	0.76	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Lead, Total	110		mg/kg	2.1	0.06	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Magnesium, Total	2500		mg/kg	4.2	0.49	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MC
Manganese, Total	190		mg/kg	0.42	0.02	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Mercury, Total	0.15		mg/kg	0.08	0.02	1	08/20/10 17:10	0 08/23/10 12:44	EPA 7471A	1,7471A	EZ
Nickel, Total	11		mg/kg	1.1	0.07	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,60108	MG
Potassium, Total	880		mg/kg	110	38.	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.85	0.12	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Silver, Total	1.0		mg/kg	0.42	0.03	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Sodium, Total	120		mg/kg	85	23.	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG
Thallium, Total	ND	6 to 15	- mg/kg	0.85	0.25	. 1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1;6010B	MG
Vanadium, Total	10	~	mg/kg	0.42	0.11	4	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG **
Zinc, Total	66		mg/kg	2.1	0.07	1	08/17/10 13:10	0 08/23/10 10:58	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012639

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012639-03
 Date Collected:
 08/12/10 08:05

 Client ID:
 SP-10-11-007
 Date Received:
 08/16/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

Matrix: Soil
Percent Solids: 88%

Percent Solids:	88%					Dit. M.			2.5		
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	4800		mg/kg	4.5	1.3	1	08/17/10 13:10	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/17/10 13:10	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Arsenic, Total	10		mg/kg	0.45	0.09	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Barium, Total	14		mg/kg	0.45	0.05	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Beryllium, Total	0.39		mg/kg	0.22	0.01	1	08/17/10 13:10	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0,45	0.04	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Calcium, Total	760		mg/kg	4.5	0.81	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Chromium, Total	12		mg/kg	0.45	0.05	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Cobalt, Total	2.8		mg/kg	0.90	0.16	1	08/17/10 13:10	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Copper, Total	9.3		mg/kg	0.45	0.05	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Iron, Total	7700		mg/kg	2.2	0.80	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Lead, Total	22		mg/kg	2.2	0.06	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Magnesium, Total	1900		mg/kg	4.5	0.52	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Manganese, Total	180		mg/kg	0.45	0.02	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/20/10 17:1	0 08/23/10 12:46	EPA 7471A	1,7471A	EZ
Nickel, Total	9.7		mg/kg	1,1	0.07	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Potassium, Total	710		mg/kg	110	40.	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.90	0.12	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Silver, Total	2.2		mg/kg	0.45	0.03	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Sodium, Total	61	J	mg/kg	90	25.	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Thallium, Total	ND ·	¥ 0	mg/kg	0.90	0.27	. 1:	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Vanadium, Total	7.9		'mg/kg	0.45	0.11	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG
Zinc, Total	33		mg/kg	2.2	0.07	1	08/17/10 13:1	0 08/23/10 11:01	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012639

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012639-04
 Date Collected:
 08/12/10 08:07

 Client ID:
 SP-10-11-012
 Date Received:
 08/16/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Soil

WIGHTA.	COII										
Percent Solids:	96%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	4400		mg/kg	4.2	1.2	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Arsenic, Total	12		mg/kg	0.42	0.08	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Barium, Total	14		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Beryllium, Total	0.38		mg/kg	0.21	0.01	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0.03	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Calcium, Total	610		mg/kg	4.2	0.75	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Chromium, Total	8.4		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Cobalt, Total	2.5		mg/kg	0.83	0.15	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,60108	MG
Copper, Total	7.3		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Iron, Total	6600		mg/kg	2.1	0.74	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Lead, Total	21		mg/kg	21	0.05	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Magnesium, Total	1400		mg/kg	4.2	0.48	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	Mc
Manganese, Total	150		mg/kg	0.42	0.02	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	- 1	08/20/10 17:1	0 08/23/10 12:48	EPA 7471A	1,7471A	EZ
Nickel, Total	8.4		mg/kg	1.0	0.07	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Potassium, Total	570		mg/kg	100	37.	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Selenium, Total	0.14	J	mg/kg	0.83	0.12	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Silver, Total	0.24	J	mg/kg	0.42	0.03	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Sodium, Total	92		mg/kg	83	23.	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Thallium, Total	ND -	4	mg/kg	0.83	0.25	14-	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Vanadium, Total	6.9	A.	mg/kg	0.42	0.10	1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG
Zinc, Total	27		mg/kg	21	0.07	-1	08/17/10 13:1	0 08/23/10 11:04	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012639

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-05

Client ID: Sample Location: SP-10-11-015 DEVENS, MA

Matrix:

Soil

Date Collected: Date Received: Field Prep:

08/12/10 08:10 08/16/10

Not Specified

111111111111111111111111111111111111111											
Percent Solids:	95%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westk	oorough L	_ab									
Aluminum, Total	4500		mg/kg	4.2	1.2	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Antimony, Total	0.43	J	mg/kg	2.1	0.18	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Arsenic, Total	12		mg/kg	0.42	0.08	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Barium, Total	15		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Beryllium, Total	0.44		mg/kg	0.21	0.01	7	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Cadmium, Total	220		mg/kg	0.42	0.03	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Calcium, Total	860		mg/kg	4.2	0.76	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Chromium, Total	42		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Cobalt, Total	3.0		mg/kg	0.84	0.15	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Copper, Total	33		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Iron, Total	12000		mg/kg	2.1	0.75	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Lead, Total	24		mg/kg	2.1	0.06	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Magnesium, Total	1600		mg/kg	4.2	0.49	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Manganese, Total	130		mg/kg	0 42	0 02	ों	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	08/20/10 17:1	0 08/23/10 12:49	EPA 7471A	1,7471A	EZ
Nickel, Total	16		mg/kg	1.0	0.07	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Potassium, Total	570		mg/kg	100	37	4	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Selenium, Total	0.12	J	mg/kg	0.84	0.12	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Silver, Total	14		mg/kg	0.42	0.03	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Sodium, Total	85		mg/kg	84	23.	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Thallium, Total	ND .	8 5 -	mg/kg	0.84	0,25	1 :	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Vanadium, Total	7.8		mg/kg	0.42	0.10	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG
Zinc, Total	48		mg/kg	2.1	0.07	1	08/17/10 13:1	0 08/23/10 11:07	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012639

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

Lab ID: L1012639-06 Date Collected:
Client ID: SP-10-11-020 Date Received:
Sample Location: DEVENS, MA Field Prep:
Matrix: Soil

Date Collected: 08/12/10 08:15
Date Received: 08/16/10
Field Prep: Not Specified

MIGHTA.	COII										
Percent Solids:	99%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Westh	orough l	_ab									
Aluminum, Total	5400		mg/kg	4.0	1.2	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Antimony, Total	0.25	J	mg/kg	2.0	0.17	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Arsenic, Total	11		mg/kg	0.40	0.08	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Barium, Total	38	J	mg/kg	0.40	0.05	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Beryllium, Total	0.44		mg/kg	0.20	0.01	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Cadmium, Total	2.1	J	mg/kg	0.40	0.03	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Calcium, Total	680	J	mg/kg	4.0	0.72	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Chromium, Total	12	J	mg/kg	0.40	0.04	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Cobalt, Total	2.7		mg/kg	0.79	0.14	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Copper, Total	13	J	mg/kg	0.40	0.04	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Iron, Total	9200		mg/kg	2.0	0.70	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Lead, Total	16		mg/kg	2.0	0.05	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Magnesium, Total	2600		mg/kg	4.0	0.46	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	Mc
Manganese, Total	110	J	mg/kg	0.40	0.02	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	4	08/20/10 17:1	0 08/23/10 12:51	EPA 7471A	1,7471A	EZ
Nickel, Total	12		mg/kg	0.99	0.06	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Potassium, Total	680	J	mg/kg	99	35.	3	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Selenium, Total	0.24	J	mg/kg	0.79	0.11	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Silver, Total	0.84		mg/kg	0.40	0.02	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Sodium, Total	73	J	mg/kg	79	22.	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.79	0:24	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Vanadium, Total	9.4		mg/kg	0.40	0.10	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG
Zinc, Total	25	J	mg/kg	2.0	0.06	1	08/17/10 13:1	0 08/23/10 10:42	EPA 3050B	1,6010B	MG

SHL TASK 0002

Lab Number:

L1012639

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-07

Client ID:

SP-10-11-023 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected: Date Received: 08/12/10 08:18

Field Prep:

08/16/10

Not Specified

Percent Solids:	95%						2.0	2.5	2	10.73.73.7V	
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	4500		mg/kg	4.1	1.2	1	08/17/10 13:1	0 08/23/10 11:10	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.0	0.18	1	08/17/10 13:1	0 08/23/10 11:10	EPA 3050B	1,6010B	MG
Arsenic, Total	12		mg/kg	0.41	0.08	1	08/17/10 13:1	0 08/23/10 11:10	EPA 3050B	1,6010B	MG
Barium, Total	12		mg/kg	0.41	0.05	1	08/17/10 13:1	0 08/23/10 11:10	EPA 3050B	1,6010B	MG
Beryllium, Total	0.36		mg/kg	0.20	0.01	1	08/17/10 13:1	0 08/23/10 11:10	EPA 3050B	1,6010B	MG

Total Wictais Wood	bolough La	,								
Aluminum, Total	4500		mg/kg	4.1	1.2	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.0	0.18	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Arsenic, Total	12		mg/kg	0.41	0.08	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Barium, Total	12		mg/kg	0.41	0.05	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Beryllium, Total	0.36		mg/kg	0.20	0.01	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Cadmium, Total	0,05	J	mg/kg	0.41	0.03	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Calcium, Total	430		mg/kg	4.1	0.74	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Chromium, Total	9.1		mg/kg	0.41	0.05	3	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Cobalt, Total	4.9		mg/kg	0.82	0.15	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Copper, Total	7.5		mg/kg	0.41	0.05	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Iron, Total	7900		mg/kg	2.0	0.73	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Lead, Total	10		mg/kg	2.0	0.05	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Magnesium, Total	2000		mg/kg	4.1	0.48	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Manganese, Total	150		mg/kg	0.41	0.02	4	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	80.0	0.02	1	08/20/10 17:10 08/23/10 12:57	EPA 7471A	1,7471A	EZ
Nickel, Total	12		mg/kg	1.0	0.07	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Potassium, Total	660		rng/kg	100	36	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1.6010B	MG
Selenium, Total	ND		mg/kg	0.82	0.12	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Silver, Total	0.24	J	mg/kg	0.41	0.03	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Sodium, Total	66	J	mg/kg	82	23.	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Thallium, Total	ND "	a)	mg/kg	0.82	0.25	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG
Vanadium, Total	7.1	6 3	mg/kg	0.41	0.10	1	08/17/10 13:10 08/23/10 11:10	ÉPA 3050B	1,6010B	MG
Zinc, Total	18		mg/kg	2.0	0.07	1	08/17/10 13:10 08/23/10 11:10	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012639

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012639-08
 Date Collected:
 08/12/10 08:20

 Client ID:
 SP-10-11-025
 Date Received:
 08/16/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Soil

Matrix: Soil
Percent Solids: 89%

Percent Solids:	89%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	3200		mg/kg	4.4	1.3	1	08/17/10 13:10	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/17/10 13:10	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Arsenic, Total	7.8		mg/kg	0.44	0.09	1	08/17/10 13:10	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Barium, Total	7.2		mg/kg	0.44	0.05	1	08/17/10 13:10	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Beryllium, Total	0.25		mg/kg	0.22	0.01	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.44	0.04	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Calcium, Total	490		mg/kg	4.4	0.81	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Chromium, Total	10		mg/kg	0.44	0,05	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Cobalt, Total	2.1		mg/kg	0.89	0.16	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Copper, Total	5.7		mg/kg	0.44	0.05	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Iron, Total	6300		mg/kg	2.2	0.79	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Lead, Total	5.2		mg/kg	2.2	0.06	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,60108	MG
Magnesium, Total	1800		mg/kg	4.4	0.52	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MC
Manganese, Total	120		mg/kg	0.44	0.02	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/20/10 17:1	0 08/23/10 13:02	EPA 7471A	1,7471A	EZ
Nickel, Total	9.3		mg/kg	1.1	0.07	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Potassium, Total	400		mg/kg	110	39,	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.89	0.12	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Silver, Total	0.063	J	mg/kg	0.44	0.03	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Sodium, Total	43	J	mg/kg	89	25.	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Thallium, Total	ND	4	mg/kg	0.89	0.27	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,60108	MG.
Vanadium, Total	5.6		mg/kg	0.44	0.11	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG
Zinc, Total	12		mg/kg	2.2	0.07	1	08/17/10 13:1	0 08/23/10 11:27	EPA 3050B	1,6010B	MG

L1012639

Project Name: Lab Number: SHL TASK 0002 Project Number: AC001

Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: L1012639-09 Client ID: SP-10-11-033 Sample Location: DEVENS, MA

08/12/10 08:22 Date Collected: Date Received:

Matrix:

Soil

08/16/10 Field Prep: Not Specified

Matrix:	Soil										
Percent Solids:	79%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	tborough l	_ab		.5							
Aluminum, Total	3000		mg/kg	5.0	1.5	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.5	0.22	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Arsenic, Total	9.7		mg/kg	0.50	0.10	4	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Barium, Total	11		mg/kg	0.50	0.06	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Beryllium, Total	0,31		mg/kg	0.25	0.02	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.50	0.04	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Calcium, Total	800		mg/kg	5.0	0.91	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Chromium, Total	5.1		mg/kg	0.50	0.06	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,60108	MG
Cobalt, Total	1.8		mg/kg	1,0	0.18	.1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Copper, Total	4.7		mg/kg	0.50	0.06	-1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Iron, Total	5000		mg/kg	2.5	0.90	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,60108	MG
Lead, Total	4.6		mg/kg	2.5	0.07	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Magnesium, Total	940		mg/kg	5.0	0 59	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Manganese, Total	120		mg/kg	0.50	0 02	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,60108	MG
Mercury, Total	ND		mg/kg	0.09	0.02	1	08/20/10 17:1	0 08/23/10 13:04	EPA 7471A	1,7471A	EZ
Nickel, Total	6.9		mg/kg	1.3	0.08	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Potassium, Total	380		mg/kg	130	45	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	1.0	0.14	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,60108	MG
Silver, Total	0.041	J	mg/kg	0.50	0.03	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Sodium, Total	44	J	mg/kg	100	28	.1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mġ/kg	1.0	0.30	1 1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Vanadium, Total	4.7	* *	mg/kg	0.50	0.13	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG
Zinc, Total	11		mg/kg	2.5	0.08	1	08/17/10 13:1	0 08/23/10 11:31	EPA 3050B	1,6010B	MG

Project Name:SHL TASK 0002Lab Number:L1012639Project Number:AC001Report Date:08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012639-10
 Date Collected;
 08/12/10 08:25

 Client ID:
 SP-10-11-040
 Date Received:
 08/16/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

 Matrix:
 Soil

Percent Solids: 90% Dilution Analytical Date Date Prep Factor Prepared Analyzed Method Method Parameter Result Qualifier Units RL MDL Analyst Total Metals - Westborough Lab Aluminum, Total 3100 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B mg/kg 4.4 1.3 MG Antimony, Total ND 2.2 1 1,6010B mg/kg 0 19 08/17/10 13:10 08/23/10 11:35 EPA 3050B MG Arsenic, Total 9.8 0.44 0.09 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG mg/kg Barium, Total 8.9 mg/kg 0.44 0.05 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG Beryllium, Total 0.26 0.22 0.01 1 1,6010B mg/kg 08/17/10 13:10 08/23/10 11:35 EPA 3050B MG Cadmium, Total ND 0.44 0.04 1,6010B mg/kg 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B MG Calcium, Total 410 44 0.80 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG mg/kg Chromium, Total 8.1 0.44 0.05 1 1,6010B mg/kg 08/17/10 13:10 08/23/10 11:35 EPA 3050B MG Cobalt, Total 1.8 0.89 0.16 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B mg/kg 1 MG Copper, Total 4.7 0.44 0.05 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B mg/kg MG 5600 Iron, Total 2.2 0.79 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B mg/kg MG Lead, Total 49 mg/kg 2.2 0.06 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG 1400 Magnesium, Total mg/kg 4.4 0.52 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MC 100 Manganese. Total mg/kg 0.44 0.02 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG ND 0.08 Mercury, Total 0.02 08/20/10 17:10 08/23/10 13:06 EPA 7471A 1,7471A EZ mg/kg Nickel, Total 7.8 0.07 1,6010B mg/kg 1.1 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B MG Potassium, Total 350 mg/kg 110 39. 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG Selenium, Total 0.14 0.89 0.12 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B J mg/kg MG Silver, Total 0.063 0.03 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B mg/kg 0.44 MG Sodium, Total 57 mg/kg 89 24. 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG Thallium, Total ND mg/kg 0.89 0.27 1 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG 1 Vanadium, Total . 5.0 mg/kg 0.44 0.11 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B MG Zinc, Total 10 22 0.07 08/17/10 13:10 08/23/10 11:35 EPA 3050B 1,6010B mg/kg MG

Project Name:

SHL TASK 0002

Project Number: AC001 Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012639-11

SP-10-11-055

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:27

Date Received: Field Prep:

08/16/10

Percent Solids:	90%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	3000		mg/kg	4.4	1.3	3	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.2	0.19	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Arsenic, Total	10		mg/kg	0.44	0:09	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Barium, Total	8.4		mg/kg	0.44	0.05	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Beryllium, Total	0.28		mg/kg	0.22	0.01	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.44	0.04	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Calcium, Total	520		mg/kg	4.4	0.81	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Chromium, Total	6.7		mg/kg	0.44	0.05	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Cobalt, Total	2.0		mg/kg	0.89	0.16	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Copper, Total	5.1		mg/kg	0.44	0.05	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Iron, Total	5200		mg/kg	2.2	0.79	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Lead, Total	4.3		mg/kg	2.2	0.06	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Magnesium, Total	1200		mg/kg	4.4	0.52	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,60108	MG
Manganese, Total	62		mg/kg	0.44	0.02	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/20/10 17:1	0 08/23/10 13:07	EPA 7471A	1.7471A	EZ
Nickel, Total	7.7		mg/kg	1.1	0.07	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Potassium, Total	450		mg/kg	110	39	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.89	0.12	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Silver, Total	0.1	J	mg/kg	0.44	0.03	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Sodium, Total	59	J	mg/kg	89	25.	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Thallium, Total	ND .		mg/kg	0.89	0,27	. 1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Vanadium, Total	5.0		mġ/kg	0.44	10.11	19	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG
Zinc, Total	11		mg/kg	2.2	0.07	1	08/17/10 13:1	0 08/23/10 11:38	EPA 3050B	1,6010B	MG

 Project Name:
 SHL TASK 0002
 Lab Number:
 L1012639

 Project Number:
 AC001
 Report Date:
 08/31/10

SAMPLE RESULTS

 Lab ID:
 L1012639-12
 Date Collected:
 08/12/10 08:30

 Client ID:
 SP-10-11-062
 Date Received:
 08/16/10

 Sample Location:
 DEVENS, MA
 Field Prep:
 Not Specified

Matrix: Soil
Percent Solids: 96%

Percent Solids:	96%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	17000		mg/kg	4.2	1.2	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Arsenic, Total	9.4		mg/kg	0.42	0.08	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Barium, Total	58		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Beryllium, Total	1.8		mg/kg	0.21	0.01	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.42	0,03	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Calcium, Total	24000		mg/kg	4.2	0.75	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Chromium, Total	59		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Cobalt, Total	9.6		mg/kg	0.83	0.15	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Copper, Total	12		mg/kg	0.42	0.05	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Iron, Total	19000		mg/kg	2.1	0.74	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Lead, Total	13		mg/kg	2.1	0.05	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Magnesium, Total	11000		mg/kg	4.2	0.48	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MC
Manganese, Total	440		mg/kg	0.42	0.02	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.07	0.02	1	08/20/10 17:1	0 08/23/10 13:09	EPA 7471A	1,7471A	EZ
Nickel, Total	45		mg/kg	1.0	0.07	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Potassium, Total	5600		mg/kg	100	37	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	1.7	0.23	2	08/17/10 13:1	0 08/23/10 14:46	EPA 3050B	1,6010B	MG
Silver, Total	6.4		mg/kg	0.42	0.03	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Sodium, Total	180		mg/kg	83	23.	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Thallium, Total	ND .		mg/kg '	0.83	0.25	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Vanadium, Total	25		mg/kg	0.42	0.10	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG
Zinc, Total	48		mg/kg	2.1	0.07	1	08/17/10 13:1	0 08/23/10 11:42	EPA 3050B	1,6010B	MG

Project Name:

SHL TASK 0002

Lab Number:

L1012639

Project Number:

AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-13

Client ID:

SDUP-081210

Sample Location: Matrix:

DEVENS, MA

Soil

Date Collected:

08/12/10 08:15

Date Received:

08/16/10

Field Prep:

Percent Solids:	98%					Dilution	Date	Date	Desa	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Prep Method	Method	Analyst
Total Metals - West	borough L	_ab									
Aluminum, Total	4700		mg/kg	4.0	1,2	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.0	0.17	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Arsenic, Total	13		mg/kg	0.40	0.08	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Barium, Total	20		mg/kg	0.40	0.05	3	08/17/10 13:10	0 08/23/10 11:46	EPA 3050B	1,6010B	MG
Beryllium, Total	0.42		mg/kg	0.20	0.01	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Cadmium, Total	0.16	J	mg/kg	0.40	0.03	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Calcium, Total	580		mg/kg	4.0	0.72	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Chromium, Total	9.7		mg/kg	0.40	0.04	1	08/17/10 13:10	0 08/23/10 11:46	EPA 3050B	1,6010B	MG
Cobalt, Total	2.8		mg/kg	0.80	0.14	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Copper, Total	11		mg/kg	0.40	0.04	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Iron, Total	8400		mg/kg	2.0	0.71	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Lead, Total	17		mg/kg	2.0	0.05	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Magnesium, Total	1800		mg/kg	4.0	0.46	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Manganese, Total	88		mg/kg	0.40	0.02	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Mercury, Total	ND		mg/kg	0.07	0.01	1	08/20/10 17:10	08/23/10 13:11	EPA 7471A	1,7471A	EZ
Nickel, Total	12		mg/kg	1.0	0.06	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Potassium, Total	720		mg/kg	100	35.	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Selenium, Total	0.33	J	mg/kg	0.80	0.11	7	08/17/10 13:10	0 08/23/10 11:46	EPA 3050B	1,6010B	MG
Silver, Total	0.3	J	mg/kg	0.40	0.02	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Sodium, Total	59	J	mg/kg	80	22.	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Thallium, Total	ND · ·	V	mg/kg	0.80	0.24	.1-	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG
Vanadium, Total	9.2		mg/kg	0.40	0.10	710	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	···MG
Zinc, Total	22		mg/kg	2.0	0.06	1	08/17/10 13:10	08/23/10 11:46	EPA 3050B	1,6010B	MG

L1012639

Project Name: Lab Number: SHL TASK 0002

Project Number: AC001 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID: L1012639-14 Date Collected: 08/12/10 08:20 Client ID: SDUP8-081210 Date Received: 08/16/10 Sample Location: DEVENS, MA Field Prep: Not Specified

Matrix: Soil

Percent Solids:	94%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - West	borough l	_ab									
Aluminum, Total	4300		mg/kg	4.2	1.2	i	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Antimony, Total	ND		mg/kg	2.1	0.18	1	08/17/10 13:10	08/23/10 11:50	EPA 3050B	1,6010B	MG
Arsenic, Total	8.0		mg/kg	0.42	80.0	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Barium, Total	8.6		mg/kg	0.42	0.05	1	08/17/10 13:10	08/23/10 11:50	EPA 3050B	1,6010B	MG
Beryllium, Total	0.35		mg/kg	0.21	0.01	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Cadmium, Total	0.17	J	mg/kg	0.42	0.03	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Calcium, Total	700		mg/kg	4.2	0.76	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Chromium, Total	22		mg/kg	0.42	0.05	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Cobalt, Total	2.9		mg/kg	0.84	0.15	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Copper, Total	6.2		mg/kg	0.42	0.05	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Iron, Total	7700		mg/kg	2.1	0.75	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Lead, Total	6.3		mg/kg	2.1	0.06	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Magnesium, Total	2500		mg/kg	4.2	0.49	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	ML
Manganese Total	120		mg/kg	0.42	0.02	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1 6010B	MG
Mercury, Total	ND		mg/kg	0.07	0.02	1	08/20/10 17:10	0 08/23/10 13:13	EPA 7471A	1.7471A	EZ
Nickel, Total	12		mg/kg	1.0	0.07	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Potassium, Total	490		mg/kg	100	37	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Selenium, Total	ND		mg/kg	0.84	0.12	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Silver, Total	0.67		mg/kg	0.42	0.03	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Sodium, Total	24	J	mg/kg	84	23.	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Thallium, Total	ND		mg/kg	0.84	0.25	. 1	08/17/10 13:10	0.08/23/10 11:50	EPÁ 3050B	1,6010B	MG
Vanadium, Total	8.2	2 30 1	mg/kg	0.42	0.10	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG
Zinc, Total	14		mg/kg	2.1	0.07	1	08/17/10 13:10	0 08/23/10 11:50	EPA 3050B	1,6010B	MG

L1012639

Project Name: SHL TASK 0002

ASK 0002 Lab Number:

Project Number: AC001 Report Date: 08/31/10

Method Blank Analysis Batch Quality Control

Parameter	Result	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough	Lab fo	or sample(s):	01-14	Batch:	WG42	8048-1				
Aluminum, Total	ND		mg/kg	4.0	1.2	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Antimony, Total	ND		mg/kg	2.0	0.17	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Barium, Total	ND		mg/kg	0.40	0.05	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Beryllium, Total	ND		mg/kg	0.20	0.01	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Calcium, Total	0.9	J	mg/kg	4.0	0.72	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Chromium, Total	0.068	J	mg/kg	0.40	0.04	4	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Cobalt, Total	ND		mg/kg	0.80	0.14	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Copper, Total	ND		mg/kg	0.40	0.04	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Iron, Total	1.1	J	mg/kg	2.0	0.71	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Lead, Total	ND		mg/kg	2.0	0.05	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Magnesium, Total	ND		mg/kg	4.0	0.46	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Manganese, Total	ND		mg/kg	0.40	0.02	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Nickel, Total	ND		mg/kg	1.0	0.06	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Potassium, Total	ND		mg/kg	100	35	1	08/17/10 13:10	08/23/10 09:12	1 6010B	MG
Selenium, Total	ND		mg/kg	0.80	0.11	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Silver, Total	ND		mg/kg	0.40	0.02	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Sodium, Total	ND		mg/kg	80	22.	1	08/17/10 13:10	08/23/10 09:12	1,60108	MG
Thallium, Total	ND		mg/kg	0.80	0.24	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Vanadium, Total	ND		mg/kg	0.40	0.10	1	08/17/10 13:10	08/23/10 09:12	1,6010B	MG
Zinc, Total	ND		mg/kg	2.0	0.06	1	08/17/10 13:10	08/23/10 09:12	2 1,6010B	MG

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Westboro	ough Lab for sample	(s): 01-14	Batch:	WG42	8689-1				
Mercury, Total	ND	mg/kg	0.08	0.02	1	08/20/10 17:10	08/23/10 12:35	5 1,7471A	EZ



Project Name: SHL TASK 0002

Lab Number:

L1012639

Project Number: AC001

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471A

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recovery Qual Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 01-1-	4 Batch: WG428048-2				
Aluminum, Total	95		80-120	è		
Antimony, Total	95	19	80-120	4		
Arsenic, Total	104		80-120	4		
Barium, Total	. 95		80-120	*		
Beryllium, Total	100	1.4.1	80-120			
Cadmium, Total	103	141	80-120	0.00		
Calcium, Total	92		80-120			
Chromium, Total	.98		80-120			
Cobalt, Total	. 100	9	80-120	*		
Copper, Total	98	134	80-120			
Iron, Total	108		80-120	2		
Lead, Total	:98	4	80-120	-		
Magnesium, Total	95	4.	80-120			
Manganese, Total	95		80-120			
Nickel, Total	95	1.6	80-120	9		
Potassium, Total	90 :	4	80-120	2		
Selenium, Total	100		80-120			
Silver, Total	108		75-120			
Sodium, Total	_100	1.0	80-120			
Thallium, Total	96		80-120	40		
Vanadium, Total	100	4	80-120	2.0		

Lab Control Sample Analysis Batch Quality Control

Lab Number:

L1012639

Report Date:

08/31/10

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab			Eiiiii	N D	THE EMILE
Zinc, Total	95	10.00	80-120	4	
Total Metals - Westborough Lab A	Associated sample(s): 01-14	Batch: WG428689-2			
Mercury, Total	107		80-120	*	20

Project Name:

Project Number:

SHL TASK 0002

AC001

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012639

Report Date:

08/31/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qua	RPD Limits
Total Metals - Westborough L 020	ab Associated	sample(s): 0	1-14 QC	Batch ID: WG	428048-	-3 WG42804	8-4 QC Sai	mple: L	.1012639-06	Clie	nt ID:	SP-10-11
Alumínum, Total	5400	80.7	4800	0		4600	0		80-120	4		20
Antimony, Total	ND	20.2	11	54	Q	11	54	Q	80-120	0		20
Arsenic, Total	11	4.84	16	103		15	82		80-120	6		20
Barium, Total	38	80.7	92	67	Q	91	66	Q	80-120	1		20
Beryllium, Total	0,44	2.02	2.4	97		2,4	97		80-120	0		20
Cadmium, Total	2.1	2.06	6.4	209	Q	4.1	97		80-120	44	Q	20
Calcium, Total	680	403	1000	79	Q	930	62	Q	80-120	7		20
Chromium, Total	12	8.07	20	99		18	74	Q	80-120	11		20
Cobalt, Total	2.7	20.2	22	96		21	90		80-120	5		20
Copper, Total	13	10.1	23	99		20	69	Q	80-120	14		20
Iron, Total	9200	40.3	8600	0		7800	0		80-120	10		20
Lead, Total	16	20.6	38	107		33	82		80-120	14		20
Magnesium, Total	2600	403	2200	0		2200	0		80-120	0		20
Manganese, Total	110	20.2	150	198		110	0		80-120	31	Q	20
Nickel, Total	12	20.2	30	89		29	84		80-120	3		20
Potassium, Total	680	403	1100	104		1000	79	Q	80-120	10		20
Selenium, Total	ND	4.84	5.0	103		4.8	99		80-120	4		20
Silver, Total	0.84	12.1	14	109		13	100		75-120	7		20
Sodium, Total	ND	403	520	129	Q	490	121	Q	80-120	6		20
Thallium, Total	ND	4.84	4.2	87		4.0	82		80-120	5		20
Vanadium, Total	9.4	20.2	27	87		27	87		80-120	0		20

Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012639

Report Date:

08/31/10

Native Sample	MS Added	MS Found	MS %Recovery	MSD Found			Recovery Limits	RPD	RPD Limits
Associated	sample(s): 01-	14 Q0	C Batch ID: WG42804	8-3 WG42804	48-4 Q	C Sample	: L1012639-06	Client ID:	SP-10-11
25	20.2	47	109	40	74	C	80-120	16	20
Associated	sample(s): 01-	14 QC	C Batch ID: WG42868	9-3 WG4286	89-4 Q	C Sample	: L1012639-06	Client ID:	SP-10-11
ND	0.156	0.17	109	0.18	109		80-120	6	20
	Sample Associated 25 Associated	Associated sample(s): 01- 25 20.2 Associated sample(s): 01-	Associated sample(s): 01-14 Q0 25 20.2 47 Associated sample(s): 01-14 Q0	Associated sample(s): 01-14 QC Batch ID: WG42804 25 20.2 47 109 Associated sample(s): 01-14 QC Batch ID: WG42868	Sample Added Found %Recovery Found Associated sample(s): 01-14 QC Batch ID: WG428048-3 WG428048-3 25 20.2 47 109 40 Associated sample(s): 01-14 QC Batch ID: WG428689-3 WG428689-3	Sample Added Found %Recovery Found %Recovery Associated sample(s): 01-14 QC Batch ID: WG428048-3 WG428048-4 QC 25 20.2 47 109 40 74 Associated sample(s): 01-14 QC Batch ID: WG428689-3 WG428689-4 QC	Sample Added Found %Recovery Found %Recovery Associated sample(s): 01-14 QC Batch ID: WG428048-3 WG428048-4 QC Sample 25 20.2 47 109 40 74 0 Associated sample(s): 01-14 QC Batch ID: WG428689-3 WG428689-4 QC Sample	Sample Added Found %Recovery Found %Recovery Limits Associated sample(s): 01-14 QC Batch ID: WG428048-3 WG428048-4 QC Sample: L1012639-06 25 20.2 47 109 40 74 Q 80-120 Associated sample(s): 01-14 QC Batch ID: WG428689-3 WG428689-4 QC Sample: L1012639-06	Sample Added Found %Recovery Found %Recovery Limits RPD Associated sample(s): 01-14 QC Batch ID: WG428048-3 WG428048-4 QC Sample: L1012639-06 Client ID: Client I

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INORGANICS & MISCELLANEOUS

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-01

Client ID:

SP-10-11-003

Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:00

Date Received:

08/16/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.055		%	0.010	0.010	1	8	08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	0.065		%	0.010	0.010	1	9	08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab									
Solids, Total	92		%	0.10	NA	1		08/17/10 20:00	30,2540G	TL

Project Name: SHL TASK 0002

Lab Number:

Project Number: AC001 Report Date: 08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-02

Client ID: Sample Location:

SP-10-11-005 DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:02

L1012639

Date Received:

08/16/10

Field Prep:

Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
sfield Lab									
0.450		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
0.618		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
rough Lab									
94		%	0.10	NA	1	-	08/17/10 20:00	30,2540G	TL
	sfield Lab 0.450 0.618	sfield Lab 0.450 0.618 orough Lab	sfield Lab 0.450 % 0.618 % orough Lab	sfield Lab 0.450 % 0.010 0.618 % 0.010 prough Lab	sfield Lab 0.450 % 0.010 0.010 0.618 % 0.010 0.010 brough Lab	Result Qualifier Units RL MDL Factor sfield Lab 0.450 % 0.010 0.010 1 0.618 % 0.010 0.010 1 brough Lab orough Lab <t< td=""><td>Result Qualifier Units RL MDL Factor Prepared sfield Lab 0.450 % 0.010 0.010 1 - 0.618 % 0.010 0.010 1 - brough Lab</td><td>Result Qualifier Units RL MDL Factor Prepared Analyzed sfield Lab 0.450 % 0.010 0.010 1 - 08/24/10 14:51 0.618 % 0.010 0.010 1 - 08/24/10 14:51 brough Lab</td><td>Result Qualifier Units RL MDL Factor Prepared Analyzed Method sfield Lab 0.450 % 0.010 0.010 1 - 08/24/10 14:51 1,9060 0.618 % 0.010 0.010 1 - 08/24/10 14:51 1,9060 brough Lab</td></t<>	Result Qualifier Units RL MDL Factor Prepared sfield Lab 0.450 % 0.010 0.010 1 - 0.618 % 0.010 0.010 1 - brough Lab	Result Qualifier Units RL MDL Factor Prepared Analyzed sfield Lab 0.450 % 0.010 0.010 1 - 08/24/10 14:51 0.618 % 0.010 0.010 1 - 08/24/10 14:51 brough Lab	Result Qualifier Units RL MDL Factor Prepared Analyzed Method sfield Lab 0.450 % 0.010 0.010 1 - 08/24/10 14:51 1,9060 0.618 % 0.010 0.010 1 - 08/24/10 14:51 1,9060 brough Lab

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-03 SP-10-11-007

Client ID: Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:05

08/16/10

Date Received: Not Specified Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.904		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	0.805		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab									
Solids, Total	88		%	0.10	NA	1		08/17/10 20:00	30,2540G	TL

Project Name:

SHL TASK 0002

L1012639

Project Number: AC001

Lab Number: Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-04

Client ID:

SP-10-11-012 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 08:07

Date Received:

08/16/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.469		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	0.397		%	0.010	0.010	1	.4.	08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab	Ŷ.								
Solids, Total	96		%	0.10	NA	1		08/17/10 20:00	30,2540G	TL

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-05

Client ID:

SP-10-11-015

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:10

Date Received:

08/16/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	1.20		%	0.010	0.010	1	*	08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	1.12		%	0.010	0.010	1	3	08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab)								
Solids, Total	95		%	0.10	NA	1		08/17/10 20:00	30,2540G	TL

Project Name:

SHL TASK 0002

Lab Number:

L1012639

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-06

Client ID:

SP-10-11-020

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:15

Date Received:

08/16/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	1.52		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	1.55		%	0.010	0.010	1	*	08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab)								
Solids, Total	99		%	0.10	NA	1	40	08/17/10 20:00	30,2540G	TL

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-07

Client ID:

SP-10-11-023

Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:18

08/16/10

Date Received: Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.030		%	0.010	0.010	1	1.0	08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	0.043		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab									
Solids, Total	95		%	0.10	NA	1	1.2	08/17/10 20:00	30,2540G	TL

Project Name:

SHL TASK 0002

Lab Number:

L1012639

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-08

Client ID:

SP-10-11-025

Sample Location:

DEVENS, MA

Date Collected:

08/12/10 08:20

Date Received:

08/16/10

Field Prep:

Not Specified

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.025		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	0.025		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab	j-								
Solids, Total	89		%	0.10	NA	1		08/17/10 20:00	30,2540G	TL

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-09

Client ID:

SP-10-11-033 DEVENS, MA

Sample Location: Matrix:

Soil

Date Collected:

08/12/10 08:22

Date Received:

08/16/10

Not Specified

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab							n.		
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	ND		%	0.010	0.010	1	-	08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab	n.								
Solids, Total	79		%	0.10	NA	1	2	08/17/10 20:00	30,2540G	TL

Project Name: SHL TASK 0002

Lab Number:

L1012639

Project Number: AC001 Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-10

Client ID:

Matrix:

SP-10-11-040 DEVENS, MA

Sample Location:

Soil

Date Collected:

08/12/10 08:25

Date Received:

08/16/10

Field Prep:

Not Specified

Dilution Date Date Analytical Qualifier Factor Prepared Method Units RL MDL Analyzed Parameter Result Analyst Total Organic Carbon - Mansfield Lab 0.036 % 0.010 0.010 08/24/10 14:51 1,9060 ES Total Organic Carbon (Rep1) 1,9060 Total Organic Carbon (Rep2) 0.036 % 0.010 0.010 1 08/24/10 14:51 ES General Chemistry - Westborough Lab. Solids, Total 90 % 0.10 NA 08/17/10 20:00 30,2540G TL

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-11

Client ID:

SP-10-11-055

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:27

Date Received:

08/16/10

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	ND		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	0.014		%	0.010	0.010	1	9	08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab									
Solids, Total	90		%	0.10	NA	1	*	08/17/10 20:00	30,2540G	TL

Project Name:

SHL TASK 0002

Lab Number:

L1012639

Project Number: AC001

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-12

Client ID:

SP-10-11-062

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:30

Date Received:

08/16/10

Not Specified

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Ma	ansfield Lab									
Total Organic Carbon (Rep1)	0.017		%	0.010	0.010	1	- 2	08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	0.018		%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
General Chemistry - West	borough Lab									
Solids, Total	96		%	0.10	NA	1	F 1	08/17/10 20:00	30,2540G	TL

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID:

L1012639-13

Client ID:

SDUP-081210

Sample Location: DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:15

Date Received:

08/16/10

Field Prep:

Parameter	Result	Qualifler	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	98		%	0.10	NA	1	-	08/17/10 20:00	30,2540G	TL

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012639

Report Date:

08/31/10

SAMPLE RESULTS

Lab ID: Client ID: L1012639-14 SDUP8-081210

Sample Location:

DEVENS, MA

Matrix:

Soil

Date Collected:

08/12/10 08:20

Date Received:

08/16/10

Not Specified

Field Prep:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab								7. 4	1 1 1
Solids, Total	94		%	0.10	NA	1	-	08/17/10 20:00	30,2540G	TL

Project Name:

SHL TASK 0002

Lab Number:

L1012639

Project Number: AC001

Report Date:

08/31/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - M	ansfield Lab for sam	ole(s): 01	-12 Bat	ch: WG	428038-1				
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1		08/24/10 14:51	1,9060	ES
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1		08/24/10 14:51	1,9060	ES



Matrix Spike Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012639

Report Date:

08/31/10

Parameter	Native Sample	MS . Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansf	field Lab Asso	ciated sample	e(s): 01-12	QC Batch ID	: WG42	8038-4	QC Sample: L1	012639-	06 Clien	t ID: S	P-10-1	1-020
Total Organic Carbon (Rep1)	1.52	0.903	3.17	183	Q	-	- 2		75-125			25
Total Organic Carbon (Rep2)	1.55	1.225	2.56	85		1,90			75-125			25

Lab Duplicate Analysis Batch Quality Control

Lab Number:

L1012639

Project Name:

SHL TASK 0002

Project Number: AC001

Report Date:

08/31/10

Parameter	Na	tive Sa	mple	Duplicate Samp	ole Units	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab	Associated sample(s):	01-12	QC Batch ID:	WG428038-3	QC Sample:	L1012639-06	Client ID:	SP-10-11-020
Total Organic Carbon (Rep1)	547.5	1.52		1.39	%	9		25
Total Organic Carbon (Rep2)		1.55		1.21	%	25		25
General Chemistry - Westborough Lab	Associated sample(s): 01-14	QC Batch ID): WG428096-1	QC Sample:	L1012639-01	Client ID	: SP-10-11-003
Solids, Total	- 1	92		93	%	1		20

Project Name:

SHL TASK 0002

Lab Number:

L1012639

Project Number:

AC001

Report Date:

08/31/10

S.R.M. Standard Quality Control

Standard Reference Material (SRM): WG428038-2

Parameter	% Recovery	Qual	QC Criteria
Total Organic Carbon (Rep1)	101		75-125
Total Organic Carbon (Rep2)	117		75-125



Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012639

Report Date: 08/31/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

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Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012639-01A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-SB-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012639-01X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012639 Report Date: 08/31/10

Container ID	Container Info	rmation			Temp			
60107(189) DOD-RE-60107(189) DOD-MS-60107(189)	Container ID	Container Type	Cooler	рН		Pres	Seal	Analysis(*)
L1012639-03A Amber 250ml unpreserved A N/A 5 Y Absent DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-HE-6010T(180),DOD-HE-6010T(180),DOD-HE-6010T(180),DOD-HE-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-NH-6010T(180),DOD-MN-6010T(180),DOD-NH-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-PB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CN-6010T(180),DOD-CN-6010T(180),DOD-CR-6010T(180								6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
6010T(180),DOD-RE- 6010T(180),DOD-AG- 6010T(180),DOD-AG- 6010T(180),DOD-BA- 6010T(180),DOD-BA- 6010T(180),DOD-CU- 6010T(180),DOD-CD- 6010T(180),DOD-HG- 7471(28),DOD-NA- 6010T(180),DOD-TL- 6010T(180),DOD-MN- 6010T(180),DOD-MN- 6010T(180),DOD-MN- 6010T(180),DOD-PB- 6010T(180),DOD-PB- 6010T(180),DOD-SB- 6010T(180),DOD-AL- 6010T(180),DOD-AL- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-CN- 6010T(180),DOD-PB- 6010T(180),DOD-N- 6010T(180),DOD-N- 6010T(180),DOD-N- 6010T(180),DOD-N- 6010T(180),DOD-R- 6010T(180),DOD-R- 6010T(180),DOD-R- 6010T(180),DOD-R- 6010T(180),DOD-CR- 6010T(180),DOD-CR- 6010T(180),DOD-CR-	L1012639-02X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)
6010T(180), DOD-CR- 6010T(180)	L1012639-03A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	6010T(180),DOD-FE- 6010T(180),DOD-MG- 6010T(180),DOD-MG- 6010T(180),DOD-K- 6010T(180),DOD-K- 6010T(180),DOD-CU- 6010T(180),DOD-CU- 6010T(180),DOD-HG- 7471(28),DOD-NA- 6010T(180),DOD-TL- 6010T(180),DOD-TL- 6010T(180),DOD-MN- 6010T(180),DOD-MN- 6010T(180),DOD-NI- 6010T(180),DOD-SB- 6010T(180),DOD-SB- 6010T(180),DOD-SB- 6010T(180),DOD-CO- 6010T(180),DOD-CO- 6010T(180),DOD-V- 6010T(180),DOD-V-
L1012639-03X Amber 100ml unpreserved split A N/A 5 Y Absent A2-TOC-9060-2REPS(28)			*** ****	*	* 1		* an	6010T(180),DOD-CR-
	L1012639-03X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012639 **Report Date:** 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012639-04A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-RE-6010T(180),DOD-RE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012639-04X	Amber 100ml unpreserved split	Α	N/A	5	Υ	Absent	A2-TOC-9060-2REPS(28)
L1012639-05A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD
	4. 604						6010T(180),DOD-ZN- 6010T(180),DOD-BE-
	7 A 12	4 4 4		*, .			6010T(180),DOD-CR-
L1012639-05X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012639 **Report Date**: 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	pН	deg C	Pres	Seal	Analysis(*)
L1012639-06A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NN-6010T(180),DOD-NN-6010T(180),DOD-NN-6010T(180),DOD-NN-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-N-6010T(180),DOD-CR-6010T(180)
L1012639-06B	Amber 250ml unpreserved	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)
L1012639-07A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(1
111.6216.637	14-12-14-14-1						6010T(180),DOD-CR- 6010T(180)
L1012639-07X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012639 **Report Date:** 08/31/10

Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН		Pres	Seal	Analysis(*)
L1012639-08A	Amber 250ml unpreserved	A	N/A	5	Å	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180)
L1012639-08X	Amber 100ml unpreserved split	Α	N/A	5	Υ	Absent	A2-TOC-9060-2REPS(28)
L1012639-09A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-NA-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-ZN-
		, -		3			6010T(180),DOD-BE-
							6010T(180),DOD-CR- 6010T(180)
L1012639-09X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)

SHL TASK 0002

Project Number: AC001

Lab Number: L1012639 Report Date: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012639-10A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-K-6010T(180),DOD-CU-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012639-10X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)
L1012639-11A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-MG-6010T(180),DOD-K-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012639-11X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)
							Annual State of the State of S

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Container Info	rmation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012639-12A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CD-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NA-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-ZN-6010T(180),DOD-ZN-6010T(180),DOD-BE-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)
L1012639-12X	Amber 100ml unpreserved split	Α	N/A	5	Y	Absent	A2-TOC-9060-2REPS(28)
L1012639-13A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-BA-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-TL-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-MN-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-AL-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-
N 2 6	1 X = 1 2 2	44.0			8.4	6.0	6010T(180),DOD-ZN-
S 30 1 3 1	4.44.60 83 6 6	7.4	t .		1		6010T(180),DOD-BE- 6010T(180),DOD-CR- 6010T(180)

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Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012639 **Report Date**: 08/31/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012639-14A	Amber 250ml unpreserved	A	N/A	5	Y	Absent	DOD-AS-6010T(180),DOD-CA-6010T(180),DOD-FE-6010T(180),DOD-MG-6010T(180),DOD-AG-6010T(180),DOD-AG-6010T(180),DOD-CU-6010T(180),DOD-CU-6010T(180),DOD-HG-7471(28),DOD-NA-6010T(180),DOD-TL-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-NI-6010T(180),DOD-PB-6010T(180),DOD-SB-6010T(180),DOD-SB-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-CO-6010T(180),DOD-V-6010T(180),DOD-V-6010T(180),DOD-ZN-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180),DOD-CR-6010T(180)

SHL TASK 0002

Lab Number:

L1012639

08/31/10

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Report Date:

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

- 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.)
- Analytical results are from sample re-analysis.

Report Format: DU Report with "J" Qualifiers

ALPHA

SHL TASK 0002

Lab Number:

L1012639

Project Number:

AC001

Report Date:

08/31/10

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

ALPHA

L1012639

Lab Number:

Project Name: SHL TASK 0002

Project Number: AC001 Report Date: 08/31/10

REFERENCES

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, Organic 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-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, 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 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 (<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 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 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.

Certificate/Approval Program Summary

Last revised July 19, 2010 - Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, <u>Organic Parameters</u>: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. <u>Organic Parameters</u>: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015, NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

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WESTBORO, MA	/ Coole/ MANSFIELD, MA	Project Infor	mation			Report Info	ormation - Data	Deliverable	s Billin	g Information	
TEL: 508-898-9220 FAX: 508-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name:	SHL TO	ASK DO	02	□ FAX	Z EMAIL	EDR	□ Same	e as Client info PO #:	
Client Information	on	Project Location				□ ADEx	□ Add'l De				
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9	SP-10-11-033	2/1.	410 087	2 5	MIN	VV					1
10	SP-10-11-040	8/17	110 082	5 5	からい	VV					1
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VESTBORO, MA EL: 508-898-9220 AX: 508-898-9193	MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288	Project Na	Project Information Project Name: 5HL Task 0002 Project Location: Deven's MA					PORT INFO	Ø	e - Data EMAIL Add'l Da	EO	R	les		ing Informations as Client in		
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ANALYTICAL REPORT

Lab Number:

L1012679

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



SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1012679-01	GP-10-14-079-F	DEVENS, MA	08/17/10 07:45
L1012679-02	GP-10-14-079-U	DEVENS, MA	08/17/10 07:45
L1012679-03	GP-10-16-024-F	DEVENS, MA	08/17/10 16:15
L1012679-04	GP-10-16-024-U	DEVENS, MA	08/17/10 16:15
L1012679-05	DUP-081710-F	DEVENS, MA	08/17/10 16:15
L1012679-06	DUP-081710-U	DEVENS, MA	08/17/10 16:15
L1012679-07	RB-081710-U	DEVENS, MA	08/17/10 11:45

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012679

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 have been issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Dissolved Metals

L1012679-01 has elevated detection limits for all analytes, except Mercury, due to the dilutions required by the

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012679

Report Date:

08/30/10

Case Narrative (continued)

high concentrations of target analytes. The requested reporting limits were not achieved.

The WG428341-1 Method Blank, associated with L1012679-01, -03 and -05, has a concentration greater than one half the reporting limit for Aluminum. Sample L1012679-01 is non-detect for Aluminum; therefore, no qualification of the results was performed. The results for samples L1012679-03 and -05 are qualified with a "B".

The WG428341-3/-4 MS/MSD recoveries for Arsenic (0%/667%), Iron (0%/290%) and Manganese (72%/124%), performed on L1012679-01, are invalid because the sample concentrations are greater than four times the spike amount added.

The WG428708-3/-4 MS/MSD recoveries, performed on L1012679-01, are above the acceptance criteria for Mercury (123%/125%); however, the associated LCS recovery is within criteria. A post-digestion spike was performed with an acceptable recovery of 116%.

Total Metals

L1012679-02, -04 and -06 have elevated detection limits for all analytes, except Mercury, due to the dilutions required by the high concentrations of target analytes. The requested reporting limits were not achieved. The WG428339-1 Method Blank, associated with L1012679-02, -04, -06 and -07, has a concentration greater than one half the reporting limit for Aluminum. The results for samples L1012679-02, -04 and -06 are greater than 10x the blank concentration; therefore, no qualification of the results was performed. The result for sample L1012679-07 is qualified with a "B".

The WG428339-3/-4 MS/MSD recoveries for Aluminum (MS at 126%), Arsenic (333%/0%), Iron (280%/0%) and Manganese (132%/38%), performed on L1012679-02, are invalid because the sample concentrations are greater than four times the spike amount added.

Dissolved Organic Carbon

A Filter Blank was analyzed and had a result of 0.27 mg/l (ND).

Nitrogen, Nitrate

L1012679-03 has an elevated detection limit due to the dilution required to quantitate the result within the

SHL TASK 0002

Lab Number:

L1012679

Project Number:

AC001

Report Date:

08/30/10

Case Narrative (continued)

calibration range.

Solids, Total Suspended

L1012679-04 has an elevated detection limit due to the dilution required by the elevated concentration present in the sample.

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

ALPHA

Date: 08/30/10

METALS



Project Name: Project Number: SHL TASK 0002

AC001

Lab Number:

L1012679

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-01

Client ID:

GP-10-14-079-F DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/17/10 07:45

Date Received:

08/17/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - \	Vestboro	ugh Lab									
Aluminum, Dissolved	ND		ug/l	100	19.1	10	08/18/10 21:00	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Antimony, Dissolved	ND		ug/I	5.00	1.20	10	08/18/10 21:00	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Arsenic, Dissolved	15100		ug/I	5.00	1.13	10	08/18/10 21:00	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Barium, Dissolved	22.6		ug/I	5.00	0.950	10	08/18/10 21:00	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Beryllium, Dissolved	ND		ug/l	5.00	0.590	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Cadmium, Dissolved	ND		ug/l	5.00	0.590	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved	30500		ug/l	1000	126.	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Chromium, Dissolved	ND		ug/l	5.00	1.86	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Cobalt, Dissolved	8.83		ug/l	5.00	0.530	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Copper, Dissolved	ND		ug/l	5.00	1.18	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Iron, Dissolved	71800		ug/l	500	84 1	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Lead, Dissolved	0.59	J	ug/l	5.00	0.500	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Magnesium, Dissolved	3390		ug/l	1000	41 0	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	BN
Manganese_Dissolved	5540		ug/I	10.0	1.36	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Mercury, Dissolved	0.05669	j.	ug/l	0.2000	0.0120	1	08/20/10 18:3	0 08/23/10 13:56	EPA 7470A	1.747UA	EZ
Nickel, Dissolved	14.0		ug/l	5.00	1.80	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Potassium, Dissolved	3780		ug/l	1000	182	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	вм
Selenium, Dissolved	ND		ug/l	10.0	4.06	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Silver, Dissolved	ND		ug/l	5.00	0.850	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Sodium, Dissolved	5720		ug/l	1000	182.	10	08/18/10 21:0	0 08/24/10 02;54	EPA 3005A	1,6020A	ВМ
Thallium, Dissolved	ND	· .	ug/l	- 5.00	0.310	-10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Vanadium, Dissolved	ND	** 1.	ug/ſ	5.00	0.770	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ
Zinc, Dissolved	40.2	J	ug/l	50.0	16.2	10	08/18/10 21:0	0 08/24/10 02:54	EPA 3005A	1,6020A	ВМ

SHL TASK 0002

Lab Number:

L1012679

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-02

Client ID:

GP-10-14-079-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/17/10 07:45

Date Received:

08/17/10

Field Prep:

Not Specified

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	8270		ug/l	100	19.1	10	08/18/10 21:00	0 08/24/10 03:36	EPA 3005A	1,6020A	вм
Antimony, Total	1.73	J	ug/l	5.00	1.20	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Arsenic, Total	17300		ug/l	5.00	1,13	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Barium, Total	58.4		ug/l	5.00	0.950	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Beryllium, Total	ND		ug/l	5.00	0.590	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Cadmium, Total	ND		ug/l	5.00	0.590	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	вм
Calcium, Total	29900		ug/l	1000	126.	10	08/18/10 21:00	0 08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Chromium, Total	20.9		ug/l	5.00	1.86	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Cobalt, Total	14.2		ug/l	5.00	0.530	10	08/18/10 21:00	0 08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Copper, Total	24.0		ug/I	5.00	1.18	10	08/18/10 21:00	0 08/24/10 03:36	EPA 3005A	1,6020A	вм
Iron, Total	80300		ug/l	500	84.1	10	08/18/10 21:00	0 08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Lead, Total	10.3		ug/l	5.00	0.500	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	вм
Magnesium, Total	5100		ug/l	1000	41.0	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Manganese, Total	5850		ug/l	10.0	1.36	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Mercury, Total	ND		ug/l	0.2000	0.0120	1	08/23/10 18:4	5 08/24/10 12:21	EPA 7470A	1,7470A	EZ
Nickel, Total	27.6		ug/l	5.00	1.80	10	08/18/10 21:00	0 08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Potassium, Total	5480		ug/l	1000	182	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	вм
Selenium, Total	ND		ug/i	10.0	4.06	10	08/18/10 21:00	0 08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Silver, Total	ND		ug/l	5.00	0.850	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Sodium, Total	6270		ug/l	1000	182.	10		08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Thallium, Total	ND "		ug/l	5.00	0.310	10		08/24/10 03:36	EPA 3005A	1,6020A	BM -
Vanadium, Total	10.1	40	ug/l	5.00	0.770	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ
Zinc, Total	73.2		ug/l	50.0	16.2	10	08/18/10 21:00	08/24/10 03:36	EPA 3005A	1,6020A	ВМ

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1012679-03 GP-10-16-024-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/17/10 16:15

Date Received:

08/17/10

Field Prep:

See Narrative

							2.0	2.53		2000		
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	7 68	JB	ug/l	10.0	1,91	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Antimony, Dissolved	0.26	J	ug/l	0.500	0.120	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Arsenic, Dissolved	4.81		ug/l	0.500	0,113	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	вм	
Barium, Dissolved	5.73		ug/l	0.500	0.095	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Beryllium, Dissolved	ND		ug/l	0.500	0 059	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	вм	
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Calcium, Dissolved	14500		ug/l	100	12.6	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	вм	
Chromium, Dissolved	0.22	J	ug/I	0.500	0.186	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	вм	
Cobalt, Dissolved	3.85		ug/l	0.500	0.053	-3.	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	вм	
Copper, Dissolved	0.25	J	ug/I	0.500	0.118	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Iron, Dissolved	323		ug/l	50.0	8.41	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Magnesium, Dissolved	1170		ug/I	100	4.10	- 1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	BN	
Manganese, Dissolved	182		ug/l	1.00	0 136	Ť	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Mercury, Dissolved	0.1034	J	ug/l	0 2000	0 0120	Ť	08/20/10 18:3	0 08/23/10 14:02	EPA 7470A	1.7470A	EZ	
Nickel, Dissolved	4.82		ug/l	0.500	0.180	1	08/18/10 21:0	0 08/24/10 03;18	EPA 3005A	1,6020A	вм	
Potassium, Dissolved	2520		ug/l	100	18.2	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Selenium, Dissolved	ND		ug/I	1.00	0.406	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	
Sodium, Dissolved	2960		ug/l	100	18.2	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	вм	
Thallium, Dissolved	0.04	. j -	úg∕l	0.500	0,031	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	-BM	
Vanadium, Dissolved	0.13	·j ·	'ug/I '	0.500	0.077	1 1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	вм	
Zinc, Dissolved	3.53	J	ug/l	5.00	1.62	1	08/18/10 21:0	0 08/24/10 03:18	EPA 3005A	1,6020A	ВМ	

SHL TASK 0002

Lab Number:

L1012679

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-04

Client ID: Sample Location: GP-10-16-024-U DEVENS, MA

Matrix:

Water

Date Collected:

08/17/10 16:15

Date Received:

08/17/10

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	41800		ug/l	40.0	7.64	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	ВМ
Antimony, Total	2.92		ug/l	2.00	0.480	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Arsenic, Total	170		ug/l	2.00	0.452	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Barium, Total	249		ug/l	2.00	0.380	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	ВМ
Beryllium, Total	2.53		ug/l	2.00	0.236	4	08/18/10 21:00	08/24/10 04:12	EPA 3005A	1,6020A	вм
Cadmium, Total	0.67	J	ug/l	2.00	0.236	4	08/18/10 21:00	08/24/10 04:12	EPA 3005A	1,6020A	вм
Calcium, Total	30600		ug/l	400	50.6	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Chromium, Total	106		ug/l	2.00	0.744	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Cobalt, Total	71.0		ug/l	2.00	0.212	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Copper, Total	83.8		ug/I	2.00	0.472	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Iron, Total	56700		ug/l	200	33.6	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Lead, Total	40.7		ug/l	2.00	0.200	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Magnesium, Total	10700		ug/l	400	16.4	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Manganese, Total	2500		ug/l	4.00	0.544	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Mercury, Total	0.04641	J	ug/l	0.2000	0.0120	1	08/23/10 18:4:	5 08/24/10 12:27	EPA 7470A	1,7470A	EZ
Nickel, Total	130		ug/l	2.00	0.720	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Potassium, Total	8990		ug/l	400	72.6	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Selenium, Total	3.17	J	ug/l	4.00	1.62	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Silver, Total	0.38	J	ug/l	2.00	0.340	4	08/18/10 21:00	08/24/10 04:12	EPA 3005A	1,6020A	вм
Sodium, Total	4950		ug/l	400	72.8	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Thallium, Total	0.64	, J	ug/l	- 2.00	0.124	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	вм
Vanadium, Total	46.6	"	ug/l	2.00	0.308	4	08/18/10 21:00	0 08/24/10 04:12	EPA 3005A	1,6020A	ВМ
Zinc, Total	157		ug/l	20.0	6.50	4	08/18/10 21:00	08/24/10 04:12	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001 Lab Number:

L1012679

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1012679-05 DUP-081710-F DEVENS, MA

08/17/10 16:15 Date Collected: 08/17/10

Sample Location: Matrix:

Water

Date Received: Field Prep:

See Narrative

Dissolved Metals - Westb Aluminum, Dissolved 11.8 Antimony, Dissolved 0.2 Arsenic, Dissolved 3.8 Barium, Dissolved 5.99		Lab B J	ug/l ug/l ug/l	10.0 0.500	1.91	4	20(10(10.0)				
Antimony, Dissolved 0.2 Arsenic, Dissolved 3.8			ug/l		1.91	4	0011011001				
Arsenic, Dissolved 3.87		1		0.500			08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	BM
			ug/l		0.120	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Barium Dissolved 5.90				0.500	0.113	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Dallulli, Diagolyeu			ug/l	0.500	0.095	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	BM
Beryllium, Dissolved ND			ug/l	0.500	0.059	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Cadmium, Dissolved ND			ug/l	0.500	0.059	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Calcium, Dissolved 159	00		ug/l	100	12.6	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Chromium, Dissolved 0.3	É	J	ug/l	0.500	0.186	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Cobalt, Dissolved 4.2			ug/l	0.500	0.053	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Copper, Dissolved 0.3		J	ug/l	0.500	0.118	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Iron, Dissolved 349			ug/l	50.0	8.41	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Lead, Dissolved ND			ug/l	0.500	0.050	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Magnesium, Dissolved 129	0		ug/l	100	4.10	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	BM
Manganese, Dissolved 197			ug/l	1 00	0.136	Ť	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	BM
Mercury, Dissolved 0.1	119	1	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 14:03	EPA 7470A	1,747UA	EZ
Nickel, Dissolved 5.2	2		ug/l	0.500	0.180	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Potassium, Dissolved 270	0		ug/l	100	18.2	1	08/18/10 21:00	0 08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Selenium, Dissolved ND			ug/l	1.00	0.406	1	08/18/10 21:00	0 08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Silver, Dissolved ND			ug/l	0.500	0.085	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	BM
Sodium, Dissolved 306	0		ug/l	100	18.2	+	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Thallium, Dissolved ND			ug/l	·0.500·	0.031	- 4	08/18/10 21:00	0 08/24/10 03:24	EPA 3005A	1,6020A	ВМ
Vanadium, Dissolved 0.1		Ţ	ug/i	0.500	0.077	-1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	вм
Zinc, Dissolved 3.3	3	J	ug/l	5.00	1.62	1	08/18/10 21:00	08/24/10 03:24	EPA 3005A	1,6020A	ВМ

SHL TASK 0002

Lab Number:

L1012679

Project Number:

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-06

Client ID: Sample Location: DUP-081710-U DEVENS, MA

Matrix:

Water

Date Collected:

08/17/10 16:15

Date Received:

08/17/10

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	44600		ug/l	40.0	7.64	4	08/18/10 21:00	0 08/24/10 04:18	EPA 3005A	1,6020A	вм
Antimony, Total	2.88		ug/l	2.00	0.480	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Arsenic, Total	164		ug/l	2.00	0.452	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Barium, Total	255		ug/l	2.00	0.380	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	вм
Beryllium, Total	2.55		ug/l	2.00	0.236	4	08/18/10 21:00	0 08/24/10 04:18	EPA 3005A	1,6020A	вм
Cadmium, Total	0.66	J	ug/l	2.00	0.236	4	08/18/10 21:00	0 08/24/10 04:18	EPA 3005A	1,6020A	вм
Calcium, Total	30600		ug/l	400	50.6	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Chromium, Total	113		ug/l	2.00	0.744	4	08/18/10 21:00	0 08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Cobalt, Total	73.2		ug/l	2.00	0.212	4	08/18/10 21:00	0 08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Copper, Total	87.2		ug/l	2.00	0.472	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Iron, Total	59500		ug/I	200	33.6	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	вм
Lead, Total	41.2		ug/I	2.00	0.200	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Magnesium, Total	11700		ug/I	400	16.4	4	08/18/10 21:00	0 08/24/10 04:18	EPA 3005A	1,6020A	вм
Manganese, Total	2650		ug/l	4.00	0.544	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Mercury, Total	0.06234	1	ug/l	0.2000	0.0120	1	08/23/10 18:45	5 08/24/10 12:28	EPA 7470A	1,7470A	EZ
Nickel, Total	136		ug/I	2.00	0.720	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Potassium, Total	9420		ug/l	400	72.6	4	08/18/10 21:00	0 08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Selenium, Total	2.9	J	ug/l	4.00	1.62	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	вм
Silver, Total	ND		ug/l	2.00	0.340	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Sodium, Total	4880		ug/l	400	72.8	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Thallium, Total	0.61	J	ug/l	2.00	0.124	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Vanadium, Total	50.2		ug/I	2.00	0.308	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	ВМ
Zinc, Total	160		ug/I	20.0	6.50	4	08/18/10 21:00	08/24/10 04:18	EPA 3005A	1,6020A	вм

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID: Client ID: L1012679-07 RB-081710-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/17/10 11:45

Date Received:

08/17/10

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	4.62	JB	ug/l	10.0	1.91	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	ВМ
Antimony, Total	ND		ug/l	0.500	0.120	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Arsenic, Total	0.830		ug/l	0.500	0.113	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Barium, Total	ND		ug/l	0.500	0.095	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Beryllium, Total	ND		ug/l	0.500	0.059	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Cadmium, Total	ND		ug/l	0.500	0.059	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Calcium, Total	76.3	J	úg/l	100	12.6	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Chromium, Total	0.19	J	ug/l	0.500	0.186	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Cobalt, Total	ND		ug/l	0.500	0.053	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Copper, Total	0.39	J	ug/l	0.500	0.118	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Iron, Total	11.6	J	ug/l	50.0	8.41	1	08/18/10 21:0	0 08/24/10 04:24	EPA 3005A	1,6020A	ВМ
Lead, Total	ND		ug/l	0.500	0.050	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Magnesium, Total	4.39	J	ug/l	100	4.10	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	BN
Manganese, Total	0.32	J	ug/l	1.00	0.136	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Mercury, Total	0.0882	J.	ug/l	0.2000	0.0120	1	08/23/10 18:4:	5 08/24/10 12:30	EPA 7470A	1,7470A	EZ
Nickel, Total	ND		ug/l	0.500	0.180	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Potassium, Total	ND		ug/I	100	18.2	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Selenium, Total	ND		ug/l	1.00	0.406	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Silver, Total	ND		ug/l	0.500	0.085	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	ВМ
Sodium, Total	35.2	J	ug/l	100	18.2	1	08/18/10 21:00	0 08/24/10 04:24	EPA 3005A	1,6020A	вм
Thallium, Total	ND		· - ug/l	0.500	0.031	1.1	08/18/10 21:00	08/24/10 04:24	EPA 3005A	1,6020A	ВМ
Vanadium, Total	ND		ug/l	0.500	0.077	11.6	08/18/10 21:00	08/24/10 04:24	EPA 3005A	1,6020A	ВМ
Zinc, Total	2.18	J	ug/l	5.00	1.62	11	08/18/10 21:00	08/24/10 04:24	EPA 3005A	1,6020A	ВМ

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012679

Report Date:

08/30/10

Method Blank Analysis Batch Quality Control

No	Parameter	Result	t Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Antimony, Total ND ug/l 0.500 0.120 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Arsenic, Total ND ug/l 0.500 0.095 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Barium, Total ND ug/l 0.500 0.095 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Beryllium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cadmium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cadmium, Total ND ug/l 100 12.6 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cadmium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 0.500 0.018 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.500 0.500 0.500 0.500	Total Metals - Westborough	Lab fo	or sample(s):	02,04,0	06-07	Batch:	WG428339-	1			
Arsenic, Total ND ug/l 0.500 0.113 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Barium, Total ND ug/l 0.500 0.095 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Beryllium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cadmium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cadmium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Catcium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Chromium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total 12.4 J ug/l 50.0 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Mickel, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 10.0 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 10.0 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 0.500 0.03	Aluminum, Total	6.6	J	ug/I	10.0	1.91	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Barium, Total ND ug/l 0.500 0.095 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Beryllium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cadmium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Calcium, Total 43.7 J ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Chromium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iton, Total ND ug/l 0.500 0.050 1 <	Antimony, Total	ND		ug/l	0.500	0.120	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Beryllium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cadmium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Calcium, Total 43.7 J ug/l 100 12.6 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Chromium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total 12.4 J ug/l 50.0 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Lead, Total ND ug/l 0.500 0.050 1<	Arsenic, Total	ND		ug/l	0.500	0.113	4	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Cadmium, Total ND ug/l 0.500 0.059 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Calcium, Total 43.7 J ug/l 100 12.6 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Chromium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total 12.4 J ug/l 5.00 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Lead, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 1.00 0.136 1 </td <td>Barium, Total</td> <td>ND</td> <td></td> <td>ug/l</td> <td>0.500</td> <td>0.095</td> <td>1</td> <td>08/18/10 21:00</td> <td>08/24/10 00:03</td> <td>1,6020A</td> <td>вм</td>	Barium, Total	ND		ug/l	0.500	0.095	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Calcium, Total 43.7 J ug/l 100 12.6 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Chromium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total 12.4 J ug/l 50.0 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Lead, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 100 4.10 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel. Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel. Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium. Total ND ug/l 1.00 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08	Beryllium, Total	ND		ug/l	0.500	0.059	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Chromium, Total ND ug/l 0.500 0.186 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total 12.4 J ug/l 50.0 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Lead, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 100 4.10 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnese, Total ND ug/l 100 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel. Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel. Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 1.00 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00	Cadmium, Total	ND		ug/l	0.500	0.059	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Cobalt, Total ND ug/l 0.500 0.053 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total 12.4 J ug/l 50.0 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Lead, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 10.0 0.500 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Alanganese, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 <t< td=""><td>Calcium, Total</td><td>43.7</td><td>J</td><td>ug/l</td><td>100</td><td>12.6</td><td>-1</td><td>08/18/10 21:00</td><td>08/24/10 00:03</td><td>1,6020A</td><td>вм</td></t<>	Calcium, Total	43.7	J	ug/l	100	12.6	-1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Copper, Total ND ug/l 0.500 0.118 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Iron, Total 12.4 J ug/l 50.0 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Lead, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 100 4.10 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10	Chromium, Total	ND		ug/l	0.500	0.186	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Iron, Total 12.4 J ug/l 50.0 8.41 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Lead, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 100 4.10 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nagnesse, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/	Cobalt, Total	ND		ug/l	0.500	0.053	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Lead, Total ND ug/l 0.500 0.050 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Magnesium, Total ND ug/l 100 4.10 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM //anganese, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00	Copper, Total	ND		ug/l	0.500	0.118	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Magnesium, Total ND ug/l 100 4.10 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM //anganese, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 100 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 <td>Iron, Total</td> <td>12.4</td> <td>J</td> <td>ug/l</td> <td>50.0</td> <td>8.41</td> <td>1</td> <td>08/18/10 21:00</td> <td>08/24/10 00:03</td> <td>1,6020A</td> <td>ВМ</td>	Iron, Total	12.4	J	ug/l	50.0	8.41	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
/langanese, Total ND ug/l 1.00 0.136 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Nickel, Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Lead, Total	ND		ug/l	0.500	0.050	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Nickel, Total ND ug/l 0.500 0.180 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Potassium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Magnesium, Total	ND		ug/l	100	4.10	1	08/18/10 21:00	08/24/10 00:03	3 1,6020A	ВМ
Potassium. Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	/langanese, Total	ND		ug/l	1.00	0.136	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Selenium, Total ND ug/l 1.00 0.406 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Nickel, Total	ND		ug/l	0.500	0.180	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Silver, Total ND ug/l 0.500 0.085 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Sodium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Potassium, Total	ND		ug/l	100	18.2	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Sodium, Total ND ug/l 100 18.2 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Selenium, Total	ND		ug/l	1.00	0.406	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Thallium, Total ND ug/l 0.500 0.031 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Silver, Total	ND		ug/l	0.500	0.085	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
	Sodium, Total	ND		ug/l	100	18.2	1	08/18/10 21:00	08/24/10 00:03	3 1,6020A	вм
Vanadium, Total ND ug/l 0.500 0.077 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Thallium, Total	ND		ug/l	0.500	0.031	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
	Vanadium, Total	ND		ug/l	0.500	0.077	1	08/18/10 21:00	08/24/10 00:03	3 1,6020A	вм
Zinc, Total 2.47 J ug/l 5.00 1.62 1 08/18/10 21:00 08/24/10 00:03 1,6020A BM	Zinc, Total	2.47	J	ug/l	5.00	1.62	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ

Prep Information

Digestion Method: EPA 3005A

Parameter	Result C	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Wes	stborough Lab	for samp	ole(s): 01	,03,05	Batch:	WG42834	1-1			
Aluminum, Dissolved	6.6	J	ug/l	10.0	1.91	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Antimony, Dissolved	ND		ug/l	0.500	0.120	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Arsenic, Dissolved	ND		ug/l	0.500	0.113	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
3arium, Dissolved	ND		ug/l	0.500	0.095	1	08/18/10 21:00	08/24/10 00:03	1,6020A	BM

ALPHA

Project Name: SHL TASK 0002

Lab Number:

L1012679

Project Number: AC001

Report Date: 08/30/10

Method Blank Analysis Batch Quality Control

Beryllium, Dissolved	ND		ug/l	0.500	0.059	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Cadmium, Dissolved	ND		ug/l	0.500	0.059	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Calcium, Dissolved	43.7	J	ug/I	100	12.6	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Chromium, Dissolved	ND		ug/l	0.500	0.186	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Cobalt, Dissolved	ND		ug/l	0.500	0.053	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Copper, Dissolved	ND		ug/l	0.500	0.118	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Iron, Dissolved	12.4	J	ug/l	50.0	8.41	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Lead, Dissolved	ND		ug/l	0.500	0.050	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Magnesium, Dissolved	ND		ug/l	100	4,10	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Manganese, Dissolved	ND		ug/l	1.00	0.136	-1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Nickel, Dissolved	ND		ug/l	0.500	0 180	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Potassium, Dissolved	ND		ug/l	100	18.2	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Selenium, Dissolved	ND		ug/l	1.00	0.406	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Silver, Dissolved	ND		ug/l	0.500	0.085	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Sodium, Dissolved	ND		ug/l	100	18.2	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Thallium, Dissolved	ND		ug/l	0.500	0.031	1	08/18/10 21:00	08/24/10 00:03	1,6020A	ВМ
Vanadium, Dissolved	ND		ug/l	0.500	0.077	1	08/18/10 21:00	08/24/10 00:03	1,6020A	вм
Zinc, Dissolved	2.47	J	ug/l	5 00	1.62	1	08/18/10 21:00	08/24/10 00:03	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 - We	stborough Lab for samp	ole(s): 01	,03,05	Batch:	WG42870	08-1			
Mercury, Dissolved	0.05098 J	ug/l	0.2000	0.0120	1	08/20/10 18:30	08/23/10 13:53	1,7470A	EZ

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL MI	Dilution L Factor	Date Prepared	Date Analyzed	Analytica Method	l Analyst
Total Metals - Westbo	rough Lab for sample(s)	: 02,04,0	6-07 Batc	h: WG429013	3-1			
Mercury, Total	ND	ug/l	0.2000 0.0	1 120	08/23/10 18:45	08/24/10 12:18	1,7470A	EZ

Serial_No:08301015:53

L1012679

Project Name: SHL TA
Project Number: AC001

SHL TASK 0002

0002 Lab Number:

Report Date: 08/30/10

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Parameter	LCS %Recovery Qual	LCSD %Recovery Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 02,04,06-07	Batch: WG428339-2				
Aluminum, Total	. 96	ů.	80-120			
Antimony, Total	104		80-120	197		
Arsenic, Total	103	4	80-120			
Barium, Total	105		80-120	4		
Beryllium, Total	103		80-120			
Cadmium, Total	114		80-120	14		
Calcium, Total	111		80-120			
Chromium, Total	100		80-120	*		
Cobalt, Total	107	*	80-120			
Copper, Total	105		80-120			
Iron, Total	110	-	80-120	÷		
Lead, Total	105	(2)	80-120			
Magnesium, Total	102	(4)	80-120	(4)		
Manganese, Total	105		80-120	(4)		
Nickel, Total	105		80-120			
Potassium, Total	105	0.0	80-120	•		
Selenium, Total	107		80-120			
Silver, Total	101		80-120			
Sodium, Total	111	4	80-120	*		
Thallium, Total	98	(3)	B0-120			
Vanadium, Total	105		80-120	4		

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab	Associated sample(s): 02,04,06-07	Batch: WG428339-2			
Zinc, Total	105		80-120	-	

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01,03,05 Batch: WG428341-2			
Aluminum, Dissolved	96		80-120		
Antimony, Dissolved	104		80-120	3	
Arsenic, Dissolved	103	/-	80-120		
Barium, Dissolved	105	1.3	80-120	9	
Beryllium, Dissolved	103		80-120		
Cadmium, Dissolved	114	9	80-120	4	
Calcium, Dissolved	111	1921	80-120	-	
Chromium, Dissolved	100	- A	80-120		
Cobalt, Dissolved	107		80-120		
Copper, Dissolved	105	1.8.1	80-120	4.	
Iron, Dissolved	110		80-120	-	
Lead, Dissolved	105		80-120	1.00	
Magnesium, Dissolved	102		80-120	*	
Manganese, Dissolved	105	0	80-120	4	
Nickel, Dissolved	105		80-120	4	
Potassium, Dissolved	105		80-120		
Selenium, Dissolved	107-	4	80-120	4	
Silver, Dissolved	101		80-120		
Sodium, Dissolved	111		80-120	4	
Thallium, Dissolved	98	*	80-120	*	
Vanadium, Dissolved	.105		80-120	9	

Project Name:

SHL TASK 0002

Project Number:

AC001

Quality Control Lab Number:

Report Date:

L1012679 08/30/10

Parameter	LCS %Recovery	%	LCSD Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab	Associated sample(s):	01,03,05 B	atch: WG428341-2			
Zinc, Dissolved	105 }		4	80-120	-	
Dissolved Metals - Westborough Lab	Associated sample(s):	01,03,05 B	atch: WG428708-2			
Mercury, Dissolved	104		41	80-120		20
Total Metals - Westborough Lab Asse	ociated sample(s): 02,	04,06-07 Ba	tch: WG429013-2			
Mercury, Total	95		4	80-120		20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

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 10-14-079-U	b Associated	sample(s): 02	2,04,06-07	QC Batch II	D: WG42	28339-3	WG428339-4	QC San	nple: L10126	679-02	Clien	t ID: GP
Aluminum, Total	8270	2000	10800	126		10500	112		80-120	3		20
Antimony, Total	ND	50Q	486	97		480	96		80-120	1		20
Arsenic, Total	17300	120	17700	333		16800	0		80-120	5		20
Barium, Total	58.4	2000 .	2180	106		2110	102		80-120	3		20
Beryllium, Total	ND	50	53.0	106		51.7	103		80-120	2		20
Cadmium, Total	ND	51	58.4	114		57.5	113		80-120	2		20
Calcium, Total	29900	10000	40700	108		39300	94		80-120	4		20
Chromium, Total	20.9	200	222	100		214	96		80-120	4		20
Cobalt, Total	14.2	500	539	105		523	102		80-120	3		20
Copper, Total	24.0	250	291	107		284	104		80-120	2		20
Iron, Total	80300	1000	83100	280		77900	0		80-120	6		20
Lead, Total	10.3	510	553	105		531	102		80-120	4		20
Magnesium, Total	5100	10000	15500	104		15000	99		80-120	3		20
Manganese, Total	5850	500	6510	132		6040	38		80-120	7		20
Nickel, Total	27.6	500	556	106		540	102		80-120	3		20
Potassium, Total	5480	10000	15900	104		15600	101		80-120	2		20
Selenium, Total	ND	120	133	111		127	106		80-120	5		20
Silver, Total	ND	50	51.3	103		50.5	101		80-120	2		20
Sodium, Total	6270	10000	16900	106		16800	105		80-120	1		20
Thallium, Total	ND	120	120	100		114	95		80-120	5		20
Vanadium, Total	10.1	500	505	99		490	96		80-120	3		20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recover	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough L 10-14-079-U	ab Associated	l sample(s):	02,04,06-07	QC Batch ID:	WG428339-3	WG428339-4	QC Sample: L1012	679-02	Client ID: GP-
Zinc, Total	73.2	500	606	106	574	100	80-120	5	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westboroug 10-14-079-F	h Lab Assoc	iated sample	(s): 01,03,0	QC Batch ID:	WG428341-3	WG428341-4	QC Sample: L101	2679-01	Client ID: GF
Aluminum, Dissolved	ND	2000	1870	94	1990	100	80-120	6	20
Antimony, Dissolved	ND	500	485	97	519	104	80-120	7	20
Arsenic, Dissolved	15100	120	15100	0	15900	667	80-120	5	20
Barium, Dissolved	22.6	2000	2020	100	2110	104	80-120	4	20
Beryllium, Dissolved	ND	50	51.0	102	52.0	104	80-120	2	20
Cadmium, Dissolved	ND	51	55,5	109	58.2	114	80-120	5	20
Calcium, Dissolved	30500	10000	39900	94	42100	116	80-120	5	20
Chromium, Dissolved	ND	200	189	94	201	100	80-120	6	20
Cobalt, Dissolved	8.83	500	503	99	533	105	80-120	6	20
Copper, Dissolved	ND	250	250	100	266	106	80-120	6	20
Iron, Dissolved	71800	1000	71500	0	74700	290	80-120	4	20
Lead, Dissolved	ND	510	508	100	538	105	80-120	6	20
Magnesium, Dissolved	3390	10000	13100	97	13900	105	80-120	6	20
Manganese, Dissolved	5540	500	5900	72	6160	124	80-120	4	20
Nickel, Dissolved	14.0	500	516	100	542	106	80-120	5	20
Potassium, Dissolved	3780	10000	13600	98	14400	106	80-120	6	20
Selenium, Dissolved	ND	120	120	100	128	107	80-120	6	20
Silver, Dissolved	ND	50	48.5	97	50.4	101	80-120	4	20
Sodium, Dissolved	5720	10000	16200	105	16600	109	80-120	2	20
Thallium, Dissolved	ND	120	112	93	119	99	80-120	6	20
Vanadium, Dissolved	ND	500	467	93	498	100	80-120	6	20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborou 10-14-079-F	igh Lab Assoc	iated sample	e(s)̇̀: 01,03 ,0	5 QC Batch	D: WG428341-	3 WG428341-4	QC Sample: L10	12679-01	Client ID: GP-
Zinc, Dissolved	ND	500	535	107	562	112	80-120	5	20
Dissolved Metals - Westborou 10-14-079-F	igh Lab Assoc	iated sample	e(s): 01,03,0	5 QC Batch I	D: WG428708-	3 WG428708-4	QC Sample: L10	12679-01	Client ID: GP-
Mercury, Dissolved	ND	1	1.232	123	Q 1.254	125	Q 80-120	2	20
Total Metals - Westborough L 10-14-079-U	ab Associated	sample(s):	02,04,06-07	QC Batch ID	: WG429013-3	WG429013-4	QC Sample: L1012	2679-02	Client ID: GP-
Mercury, Total	ND	1 .	1.040	104	1.145	114	80-120	10	20

INORGANICS & MISCELLANEOUS

Project Name:

SHL TASK 0002

Lab Number:

L1012679

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-01

Client ID:

GP-10-14-079-F

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/17/10 07:45

Date Received:

08/17/10

Fie

eld 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	210	- 1	mg CaCO3/L	2.0	NA	1	-	08/20/10 11:17	30,2320B	SD
Nitrogen, Ammonia	2.67		mg/l	0.075	0.017	1	08/20/10 18:15	08/20/10 22:09	30,4500NH3-BH	AT
Nitrogen, Nitrite	0.01	J	mg/l	0.02	0.002	1		08/18/10 02:00	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/19/10 17:45	08/19/10 18:45	30,4500S2-AD	AT
Chemical Oxygen Demand	33		mg/l	20	7.0	1		08/19/10 15:07	44,410.4	DW
Dissolved Organic Carbon	4.2		mg/l	1.0	1.0	1	08/17/10 21:30	08/23/10 18:29	30,5310C	DD
Anions by Ion Chromatog	raphy - West	borough	Lab							
Chloride	5.7		mg/l	0.50	0.07	1		08/18/10 21:00	44,300.0	AU
Nitrogen, Nitrate	ND		mg/l	0.05	0.01	1		08/18/10 21:00	44,300.0	AU
Sulfate	3.8		mg/l	1.0	0.12	1	3	08/18/10 21:00	44,300.0	AU

Project Name: SHL TASK 0002

Project Number:

Lab Number:

L1012679

AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-02

Client ID:

GP-10-14-079-U DEVENS, MA

Sample Location: Matrix:

Water

Date Collected:

08/17/10 07:45

Date Received:

08/17/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab	i.								
Solids, Total Suspended	170		mg/l	5.0	NA	1		08/18/10 09:00	30,2540D	DW

Project Name: SHL TASK 0002

Lab Number:

L1012679

Project Number: AC001

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-03 GP-10-16-024-F

Client ID: Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/17/10 16:15

Date Received:

08/17/10

Field Prep:

See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab)								
Alkalinity, Total	33		mg CaCO3/L	2.0	NA	1		08/20/10 11:17	30,2320B	SD
Nitrogen, Ammonia	0.0455	J	mg/I	0.075	0.017	1	08/20/10 18:15	08/20/10 22:11	30,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.02	0.002	1		08/18/10 02:00	30,4500NO2-B	DD
Sulfide	ND		mg/l	0.10	0.10	1	08/19/10 17:45	08/19/10 18:45	30,4500S2-AD	AT
Chemical Oxygen Demand	9.7	J	mg/l	20	7.0	1		08/19/10 15:07	44,410.4	DW
Dissolved Organic Carbon	ND		mg/l	1.0	1.0	1	08/17/10 21:30	08/23/10 18:29	30,5310C	DD
Anions by Ion Chromatog	graphy - West	borough	Lab							
Chloride	3.6	1000	mg/l	0.50	0.07	1	-	08/18/10 20:00	44,300.0	AU
Nitrogen, Nitrate	0.65		mg/f	0.10	0.01	2		08/18/10 20:12	44,300.0	AU
Sulfate	8.8		mg/l	1.0	0.12	1	4.	08/18/10 20:00	44,300.0	AU

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number:

L1012679

Report Date:

08/30/10

SAMPLE RESULTS

Lab ID:

L1012679-04

Client ID:

GP-10-16-024-U

Sample Location:

DEVENS, MA

Matrix:

Water

Date Collected:

08/17/10 16:15

Date Received:

08/17/10

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Wes	stborough Lab									
Solids, Total Suspended	3900		mg/l	50	NA	10		08/18/10 09:00	30,2540D	DW

Project Name:

SHL TASK 0002

Lab Number:

L1012679

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
General Chemistry - We	stborough Lab for san	nple(s): 01,	03 Bat	tch: WG	428146-2				
Nitrogen, Nitrite	ND	mg/l	0.02	0.002	1	*	08/18/10 01:59	30,4500NO2-B	DD
General Chemistry - We	stborough Lab for san	nple(s): 02,	.04 Bat	tch: WG	6428153-1				
Solids, Total Suspended	ND	mg/l	5.0	NA	1	÷	08/18/10 09:00	30,2540D	DW
Anions by Ion Chromato	graphy - Westborough	Lab for sa	mple(s)	: 01,03	Batch: W	/G428332-1			
Chloride	ND	mg/l	0.50	0.07	1		08/18/10 19:24	44,300.0	AU
Nitrogen, Nitrate	ND	mg/l	0.05	0.01	1	- 4	08/18/10 19:24	44,300.0	AU
Sulfate	ND	mg/l	1.0	0.12	1		08/18/10 19:24	44,300.0	AU
General Chemistry - We	stborough Lab for san	nple(s): 01,	03 Bat	tch: WG	6428381-1				
Chemical Oxygen Demand	ND	mg/l	20	7.0	1	2	08/19/10 14:56	44,410 4	DW
General Chemistry - We	stborough Lab for san	nple(s): 01,	03 Bat	tch: WG	6428683-1				
Sulfide	ND	mg/l	0.10	0.10	1	08/19/10 17:45	08/19/10 18:45	30,4500S2-AD	AT
aneral Chemistry - We	stborough Lab for san	nple(s): 01,	03 Ba	tch: WG	G428685-1				
Alkalinity, Total	ND	mg CaCO3/L	2.0	NA	1	150	08/20/10 11:17	30,2320B	SD
General Chemistry - We	stborough Lab for san	nple(s): 01,	,03 Ba	tch: WG	428697-1				
Nitrogen, Ammonia	ND	mg/l	0.075	0.017	1	08/20/10 18:15	08/20/10 22:06	30,4500NH3-BH	H AT
General Chemistry - We	stborough Lab for san	nple(s): 01,	03 Ba	tch: WC	6429018-2				
Dissolved Organic Carbon	ND	mg/l	1.0	1.0	1	08/17/10 21:30	08/23/10 18:29	30,5310C	DD

Lab Control Sample Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012679

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s)	: 01,03	Batch: WG428	3146-1				
Nitrogen, Nitrite	100		-		90-110	15		20
Anions by Ion Chromatography - Westb	orough Lab Associate	d sample	e(s): 01,03 Ba	tch: WG4	28332-2			
Chloride	100		٠		90-110			
Nitrogen, Nitrate	100		14		90-110			
Sulfate	95		14.		90-110			
General Chemistry - Westborough Lab	Associated sample(s)	01,03	Batch: WG428	3381-2				
Chemical Oxygen Demand	103		•		95-105	.4		
General Chemistry - Westborough Lab	Associated sample(s)	01,03	Batch: WG428	8683-2				
Sulfide	91.				75-125			
General Chemistry - Westborough Lab	Associated sample(s):	01,03	Batch: WG428	685-2				
Alkalinity, Total	106		•		80-115	*		4
General Chemistry - Westborough Lab	Associated sample(s):	01,03	Batch: WG428	697-2				
Nitrogen, Ammonia	. 98		4		80-120	4		20

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Control Sample Analysis
Batch Quality Control

Lab Number:

L1012679

Report Date:

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough	Lab Associated sample(s): 01,03	Batch: WG429018-1			
Dissolved Organic Carbon	106		90-110		

Project Name:

SHL TASK 0002

Project Number:

AC001

Lab Number:

L1012679

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual Found	MSD %Recovery	Recov Qual Limit	The state of the s	RPD Qual Limits
General Chemistry - Westbo	rough Lab Asso	ciated samp	le(s): 01,03	QC Batch I	D: WG428146-3	QC Sample: L	1012679-03	Client ID:	GP-10-16-024-F
Nitrogen, Nitrite	ND	0.1	0.10	100	6	4	85-11	5 -	20
Anions by Ion Chromatograp Client ID: GP-10-14-079-F	hy - Westborou	igh Lab Asso	ciated sam	ple(s): 01.03	QC Batch ID: W	G428332-3 WG	6428332-4 QC	Sample:	L1012679-01
Chloride	5.7	4	9,5	95	9.3	90	40-15	1 2	18
Nitrogen, Nitrate	ND	0.4	0.40	100	0.39	98	80-122	2 3	15
Sulfate	3,8	8∙.	12	102	12	102	60-140	0	20
General Chemistry - Westbo	rough Lab Asso	ciated samp	le(s): 01,03	QC Batch I	D: WG428381-3	QC Sample: L	.1012632-01	Client ID:	MS Sample
Chemical Oxygen Demand	26	238	300	115		*	80-120	-	20
General Chemistry - Westbo	rough Lab Asso	ciated samp	le(s): 01,03	QC Batch I	D: WG428683-3	QC Sample: L	1012679-03	Client ID:	GP-10-16-024-F
Sulfide	ND	0.24	0.19	79	-	2	75-125	5 -	20
General Chemistry - Westbo	rough Lab Asso	ociated samp	le(s): 01,03	QC Batch I	D: WG428685-3	QC Sample: L	.1012735-05	Client ID:	MS Sample
Alkalinity, Total	210	100	290	80	Q -		86-116	i -	4
General Chemistry - Westbo	rough Lab Asso	ciated samp	le(s): 01,03	QC Batch I	D: WG428697-3	QC Sample: L	1012679-03	Client ID:	GP-10-16-024-F
Nitrogen, Ammonia	ND	4	3.79	95			80-120	-	20
General Chemistry - Westbo	rough Lab Asso	ciated samp	le(s): 01,03	QC Batch I	D: WG429018-3	QC Sample: L	1012735-05	Client ID:	MS Sample
Dissolved Organic Carbon	3.7	4	8.1	109	*		79-120		20

Lab Duplicate Analysis Batch Quality Control

Project Name:

SHL TASK 0002

Project Number: AC001

Lab Number:

L1012679

Report Date:

arameter	Nati	ive Sam	ple D	uplicate Samp	le Units	RPD	Qual	RPD Limits		
Seneral Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG428146-4	QC Sample:	L1012679-03	Client ID:	GP-10-16-024-F		
Nitrogen, Nitrite	879	ND		ND	mg/l	NC		20		
Seneral Chemistry - Westborough Lab	Associated sample(s):	02,04	QC Batch ID:	WG428153-2	QC Sample:	L1012679-04	Client ID:	GP-10-16-024-U		
Solids, Total Suspended	10.7	3900		3800	mg/l	3		32		
nions by Ion Chromatography - Westbo 4-079-F	orough Lab Associated	d sample	e(s): 01,03 C	C Batch ID: W	G428332-5	QC Sample: L	1012679-0	11 Client ID: GP-10		
Chloride		5.7		5.7	mg/l	0		18		
Nitrogen, Nitrate	, **	ND		ND	mg/l	NC		15		
Sulfate	7.4	3.8		3.9	mg/l	3		20		
General Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG428381-4	QC Sample:	L1012632-01	Client ID:	DUP Sample		
Chemical Oxygen Demand	× -	26.		24	mg/l	8		20		
seneral Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG428683-4	QC Sample:	L1012679-01	Client ID:	GP-10-14-079-F		
Sulfide		ND		ND	mg/l	NC		20		
General Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG428685-4	QC Sample:	L1012735-05	Client ID:	DUP Sample		
Alkalinity, Total	a ^r	210		200	mg CaCO	3/L 5	Q	4		
General Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG428697-4	QC Sample:	L1012679-01	Client ID:	GP-10-14-079-F		
Nitrogen, Ammonia	7	2.67		2.64	mg/l	1		20		
General Chemistry - Westborough Lab	Associated sample(s):	01,03	QC Batch ID:	WG429018-4	QC Sample:	L1012679-01	Client ID:	GP-10-14-079-F		
Dissolved Organic Carbon	421	4.2		4.1	mg/l	2		20		

Project Name: SHL TASK 0002

Lab Number: L1012679 Project Number: AC001 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

B

Present/Intact

A

Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012679-01A	Vial H2SO4 preserved split	В	N/A	4	Y	Present/Intact	DOC-5310(28)
L1012679-01B	Vial H2SO4 preserved split	В	N/A	4	Y	Present/Intact	DOC-5310(28)
L1012679-01C	Plastic 250ml unpreserved	В	N/A	4	Y	Present/Intact	ALK-T-2320(14)
L1012679-01D	Plastic 250ml HNO3 preserved	В	<2	4	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-NI-6020S(180),DOD-NI-6020S(180),DOD-V-6020S(180),DOD-V-6020S(180),DOD-SE-6020S(180),DOD-BE-6020S(180),DOD-BE-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CU-6020S(180),DOD-CU-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-SE-6020S(180),DOD-

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012679 **Report Date:** 08/30/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	pH	deg C	Pres	Seal	Analysis(*)
L1012679-01E	Plastic 250ml HNO3 preserved	В	<2	4	Y	Present/Intact	DOD-BA-6020S(180),DOD-FE-6020S(180),DOD-MG-6020S(180),DOD-MG-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-NI-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-CD-6020S(180),DOD-BE-6020S(180),DOD-BE-6020S(180),DOD-BE-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-K-6020S(180),DOD-BE-6020S(180),DOD-K-6020S(180),DOD-K-6020S(180),DOD-SE-6020S(180),DOD-SE-6020S(180),DOD-BE-6020S(180),DOD-BE-6020S(180),DOD-SE-6020S(180),DOD-BE-6020S(180)
L1012679-01F	Plastic 250ml Zn Acetate/NaOH pr	В	>12	4	Y	Present/Intact	SULFIDE-4500(7)
L1012679-01G	Plastic 250ml Zn Acetate/NaOH pr	В	>12	4	Υ	Present/Intact	SULFIDE-4500(7)
L1012679-01H	Plastic 250ml Zn Acetate/NaOH pr	В	>12	4	Y	Present/Intact	SULFIDE-4500(7)
L1012679-01I	Plastic 500ml H2SO4 preserved	В	<2	4	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1012679-01J	Plastic 250ml unpreserved	В	6	4	Υ	Present/Intact	NO2-4500NO2(2)
L1012679-01K	Plastic 500ml unpreserved	В	6	4	Υ	Present/Intact	SO4-300(28), CL-300(28), NO3-300(2)
L1012679-01X	Amber 250ml unpreserved	В	6	4	Y	Present/Intact	DOC-5310(28)
L1012679-02A	Plastic 250ml HNO3 preserved	В	<2	4	Y	Present/Intact	DOD-CD-6020T(180),DOD-NA-6020T(180),DOD-V-6020T(180),DOD-ZN-6020T(180),DOD-NI-6020T(180),DOD-SE-6020T(180),DOD-TL-6020T(180),DOD-CA-6020T(180),DOD-CO-6020T(180),DOD-MN-
	San Araba S	. 18	46		h	And I	6020T(180),DOD-HG- 7470T(28),DOD-SB- 6020T(180),DOD-AG- 6020T(180),DOD-AL- 6020T(180),DOD-AS-
							6020T(180),DOD-BA- 6020T(180),DOD-CR- 6020T(180),DOD-K- 6020T(180),DOD-BE- 6020T(180),DOD-MG- 6020T(180),DOD-FE- 6020T(180),DOD-CU- 6020T(180),DOD-PB- 6020T(180)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012679 Report Date: 08/30/10

Container In	formation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012679-02B	Plastic 250ml HNO3 preserved	В	<2	4	Y	Present/Intact	DOD-CD-6020T(180),DOD-NA-6020T(180),DOD-V-6020T(180),DOD-ZN-6020T(180),DOD-NI-6020T(180),DOD-SE-6020T(180),DOD-CA-6020T(180),DOD-CA-6020T(180),DOD-MN-6020T(180),DOD-MN-6020T(180),DOD-AG-6020T(180),DOD-AG-6020T(180),DOD-AG-6020T(180),DOD-AG-6020T(180),DOD-AS-6020T(180),DOD-AS-6020T(180),DOD-AS-6020T(180),DOD-BA-6020T(180),DOD-BA-6020T(180),DOD-BG-6020T(180),DOD-BG-6020T(180),DOD-BG-6020T(180),DOD-BG-6020T(180),DOD-BG-6020T(180),DOD-FE-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180)
L1012679-02C	Plastic 1000ml unpreserved	В	6	4	Y	Present/Intact	TSS-2540(7)
L1012679-03A	Vial H2SO4 preserved split	Α	N/A	3	Y	Present/Intact	DOC-5310(28)
L1012679-03B	Vial H2SO4 preserved split	Α	N/A	3	Y	Present/Intact	DOC-5310(28)
L1012679-03C	Plastic 250ml unpreserved	Α	N/A	3	Y	Present/Intact	ALK-T-2320(14)
L1012679-03D	Plastic 250ml HNO3 preserved	Α	<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-MN-6020S(180),DOD-TL-6020S(180),DOD-CO-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-PB-6020S(180),DOD-V-6020S(180),DOD-AS-
	1 14/52	7 19		20 0		4 7 4	6020S(180),DOD-CD- 6020S(180),DOD-BE-
3 1/ 4 1/4 1	7 24 7 15 54 4 7		1 9	45 .	ty t		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)
L1012679-03E	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1012679-03F	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Y	Present/Intact	SULFIDE-4500(7)
L1012679-03G	Plastic 250ml Zn Acetate/NaOH pr	Α	>12	3	Υ	Present/Intact	SULFIDE-4500(7)
L1012679-03H	Plastic 500ml H2SO4 preserved	Α	<2	3	Y	Present/Intact	COD-410(28),NH3-4500(28)
L1012679-03I	Plastic 250ml unpreserved	Α	6	3	Y	Present/Intact	NO2-4500NO2(2)

Project Name: SHL TASK 0002

Project Number: AC001

Lab Number: L1012679 Report Date: 08/30/10

Container Info	ermation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1012679-03J	Plastic 500ml unpreserved	Α	6	3	Y	Present/Intact	SO4-300(28),CL-300(28),NO3- 300(2)
L1012679-03X	Amber 250ml unpreserved	Α	6	3	Y	Present/Intact	DOC-5310(28)
L1012679-04A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-CD-6020T(180), DOD-NA-6020T(180), DOD-V-6020T(180), DOD-V-6020T(180), DOD-NI-6020T(180), DOD-NI-6020T(180), DOD-SE-6020T(180), DOD-CA-6020T(180), DOD-CO-6020T(180), DOD-HG-7470T(28), DOD-SB-6020T(180), DOD-AG-6020T(180), DOD-AG-6020T(180), DOD-AG-6020T(180), DOD-AG-6020T(180), DOD-AG-6020T(180), DOD-BA-6020T(180), DOD-BA-6020T(180), DOD-BE-6020T(180), DOD-BE-6020T(180), DOD-MG-6020T(180), DOD-MG-6020T(180), DOD-MG-6020T(180), DOD-FE-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180), DOD-PB-6020T(180)
L1012679-04B	Plastic 1000ml unpreserved	Α	6	3	Y	Present/Intact	TSS-2540(7)
L1012679-05A	Plastic 250ml 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-MN-6020S(180),DOD-CO-6020S(180),DOD-AG-6020S(180),DOD-CA-6020S(180),DOD-NA-6020S(180),DOD-NI-6020S(180),DOD-PB-6020S(180),DOD-PB-6020S(180),DOD-AS-6020S(180),DOD-AS-6020S(180),DOD-CD-
- Pt -			2	2 46		. 27.0	6020S(180),DOD-BE-
	The section of the se	· 1 · 1 · 1	2 3			an Arrentan	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 Name:

SHL TASK 0002

Project Number: AC001

Lab Number: L1012679

Report Date: 08/30/10

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)
L1012679-06A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Present/Intact	DOD-CD-6020T(180),DOD-NA-6020T(180),DOD-V-6020T(180),DOD-V-6020T(180),DOD-NI-6020T(180),DOD-SE-6020T(180),DOD-CA-6020T(180),DOD-CA-6020T(180),DOD-HG-7470T(28),DOD-HG-7470T(28),DOD-AG-6020T(180),DOD-AG-6020T(180),DOD-AS-6020T(180),DOD-AS-6020T(180),DOD-BA-6020T(180),DOD-BA-6020T(180),DOD-BA-6020T(180),DOD-BC-6020T(180),DOD-BC-6020T(180),DOD-BC-6020T(180),DOD-HG-6020T(180),DOD-HG-6020T(180),DOD-HG-6020T(180),DOD-HG-6020T(180),DOD-HG-6020T(180),DOD-FE-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180),DOD-PB-6020T(180)
L1012679-07A	Plastic 500ml HNO3 preserved	В	<2	4	Y	Present/Intact	DOD-CD-6020T(180),DOD-NA-6020T(180),DOD-V-6020T(180),DOD-V-6020T(180),DOD-NI-6020T(180),DOD-SE-6020T(180),DOD-CA-6020T(180),DOD-CO-6020T(180),DOD-HG-7470T(28),DOD-AG-6020T(180),DOD-AG-6020T(180),DOD-AS-6020T(180),DOD-AS-6020T(180),DOD-BA-6020T(180),DOD-BA-6020T(180),DOD-CR-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-K-6020T(180),DOD-BE-6020T(180),DOD-BE-6020T(180),DOD-FE-6020T(180),DOD-FE-6020T(180),DOD-FE-6020T(180),DOD-FE-6020T(180),DOD-FE-6020T(180),DOD-CU-
	and the second	11.	8 9			Sec. 2 4	6020T(180),DOD-PB- 6020T(180)

Container Comments

L1012679-01A

L1012679-01B

L1012679-03A

L1012679-03B

Project Name:

SHL TASK 0002

Lab Number:

L1012679

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.

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.
- 4 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: DU Report with "J" Qualifiers



Lab Number:

Project Name: SHL TASK 0002

L1012679 Report Date: **Project Number:** AC001 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).

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

DU Report with "J" Qualifiers Report Format:

Project Name:

Project Number:

SHL TASK 0002

AC001

Lab Number:

L1012679

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.

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 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, Organical Potalicides, 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, 4500Neg-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,Aq,Sr,Ti,Tl,V,Zn,Ca,Mq,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 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, 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, 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* (Inorqanic 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.

Mar. a	CHAIN OF CUSTODY					OF	Date Rec'd in Lab:							0		ALPHA Job# 61012679			
WESTBORO, MA	MANSFIELD, MA	Project In	nformati	on			Re	port	Info	rmati	ion -	Data	Deli	vera	bles	Bil	lling	Information	
TEL: 508-898-9220 FAX: 508-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Nam	ne: 5/	4L Ta	s4 000	12	DFAX DEMAIL E								☐ Same as Client info PO #:				
Client Informatio	n.	Project Loca	ation:	Deven's	MA		□ ADEx □ Add'l Deliverables												
Client: Joverers	go Consulting Inc	Project #:	ACC	100			Regulatory Requirements/Report Limits												
Address: 905 B	South Main St	Project Man	ager: P	hil McB	Sin		State /Fed Program Criteria SEE QATP											70	
Marstide	1, MA 02048	ALPHA Que	ote #:				MA MCP PRESUMPTIVE CERTAINTY CT REAS												
Phone: SOF	335-3200	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 Comme											ts)	
Fax: 507.3	39- 3248	Standard	О	RUSH (enly)	and formed it was to	enavadi)	O	Yes	X No) /	Are C	TRC	P (Rea	asona	ble Co	nfiden	ce P	rotocols) Required?	
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	ve been previously analyzed by Alpha Decific Requirements/Comm		81	24/10	Time.		ANAIL	0	1	1	1	1-	1	1	15	15/	1	SAMPLE HANDLING Filtration	Ā
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