

Attachment 6d

**Sterling Environmental Engineering, P.C.
September 2014, Sampling for Chromium and Arsenic
in Drip Pad Concrete and Subsoils**



**NORTHEAST TREATERS OF NEW YORK, LLC
ATHENS, NEW YORK**

**SAMPLING FOR CHROMIUM AND ARSENIC
IN DRIP PAD CONCRETE AND SUBSOILS**

Prepared for:

Northeast Treaters of New York, LLC
796 Schoharie Turnpike
Athens, New York 12015

Prepared by:

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Latham, New York 12110

September 3, 2014

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**NORTHEAST TREATERS OF NEW YORK, LLC
ATHENS, NEW YORK**

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IN DRIP PAD CONCRETE AND SUBSOILS**

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2014-08/Sampling Summary_toc.doc

1.0 INTRODUCTION

Northeast Treaters of New York, LLC (hereinafter “Northeast Treaters”) operates a pressure treated wood manufacturing facility located on approximately 13 acres on the north side of the Schoharie Turnpike in the Town of Athens, New York.

For a period of time, the facility utilized chromated copper arsenate (CCA) to pressure treat wood products. The facility switched to a non-hazardous preservative in 2003. The owner seeks to modernize the existing plant in order to remain competitive, energy-efficient and current with today’s health and safety standards. In order to implement the upgrade, the owner must construct spread footers with frost walls and piers. In order to construct spread footers with frost walls and piers, the owner must remove a portion of the concrete pad.

On June 23, 2014, Sterling Environmental Engineering, P.C. (STERLING) conducted focused sampling of the existing concrete drip pad and subsurface soils associated with the Northeast Treaters facility. A total of twelve (12) concrete samples and twenty (20) soil samples were collected, at various depths, at four (4) sample locations. A map of the sample locations is provided as Figure 1.

The primary purpose of this sampling event was to properly characterize the concrete debris from the drip pad and subsurface soils which must be excavated to install the spread footers with frost walls and piers (characterization is needed in order to determine how to manage such material). The sampling was also conducted to determine the concentration levels of the potential contaminants and to evaluate the remediation which will ultimately be required.

2.0 SAMPLING PROCEDURE

Sample location S,C-01 (Note: “S” indicates soil and “C” indicates concrete) is located on the northern portion of the existing drip pad. Location S,C-02 is located near the easternmost portion of the existing drip pad where lumber is temporarily held immediately after being removed from the treatment cylinder. Sample location S,C-03 is located near the center of the facility floor. S,C-04 is located near the location of one (1) of the proposed frost walls near the entrance of the treatment cylinder.

At each sample location, a concrete core drill was utilized to drill four (4) inch diameter cores through the entire depth of the existing concrete drip pad which is approximately nine (9) to ten (10) inches thick. Due to the volume of concrete required for laboratory analysis, three (3) cores were drilled within a one (1) square ft. area at each sample location. Concrete cores were placed in sealed plastic storage bags, and each was labeled to indicate the sample location and the orientation of each concrete core. The top portion of each core was observed to be considerably smoother and darker in color than the bottom portion.

Concrete cores were prepared for laboratory analysis by STERLING on June 24 and June 25, 2014 by removing the topmost one-quarter (1/4) inch of concrete using a circular saw consistent with the Debris Rule requirements, which require the removal of the top one-quarter (1/4) inch of concrete before material can be disposed as exempt under the Debris Rule (see 6 NYCRR 376.4(g)(1), Table 1 – A.1.b., and Table 1 – Footnote 3).

Each concrete core was then divided into three (3) sections approximately three (3) inches in depth. The topmost section of each concrete core was collected as an “A” sample, the middle section of each concrete core was collected as the “B” sample, and the bottom section of each concrete core was collected as the “C” sample. Each sample was crushed into powder using a hammer within a stainless steel bowl. A, B, and C samples were obtained from each of the four (4) sample locations, and a total of twelve (12) concrete samples were submitted

for laboratory analysis on June 25, 2014 following sample preparation.

A portable Geoprobe was utilized to collect soil samples at each of the four (4) sample locations following core drilling of the concrete. Soil samples were collected at one (1) foot increments from the bottom of the drip pad to a depth of approximately six (6) feet below grade surface (bgs). "A" samples were collected from between the bottom of the drip pad to approximately two (2) feet bgs, "B" samples were collected between approximately two (2) and three (3) feet bgs, "C" samples were collected between approximately three (3) and four (4) feet bgs, "D" samples were collected between approximately four (4) and five (5) feet bgs, and "E" samples were collected between approximately five (5) and six (6) feet bgs. All coring locations were sealed using bentonite clay and mortar following the sampling event.

Five (5) soil samples were obtained from each of the four (4) sample locations, and a total of twenty (20) soil samples were submitted for laboratory analysis on June 23, 2014 following the sampling event.

Concrete and soil samples were analyzed for total metals and Toxicity Characteristic Leaching Procedure (TCLP) metals via United States Environmental Protection Agency (USEPA) Method 6010C. Samples were only analyzed for the hazardous components of CCA, arsenic and chromium.

3.0 RESULTS

The complete analytical report associated with concrete and soil samples collected during the June 23, 2014 sampling event is provided as Attachment 1. The first letter of each sample ID represents the sample media, which is either denoted by a "C" for concrete or "S" for soil. The number contained in each sample ID corresponds to the sample location as depicted in Figure 1. The last letter of each sample ID corresponds to the depth of the sample as described in Section 2.0 above.

Note that concentrations of arsenic and chromium were detected in the laboratory method blanks utilized for TCLP analysis (see Pages 20 and 21 of Attachment 1). The concentration of arsenic detected in laboratory method blanks utilized for TCLP analysis ranged between less than 0.0032 mg/L and 0.0050 mg/L. The concentration of chromium detected in laboratory method blanks utilized for TCLP analysis ranged between 0.00493 mg/L and 0.00735 mg/L. The results of the analysis are valid as the concentration of arsenic and chromium detected in the laboratory method blanks is approximately two orders of magnitude lower than the lowest treatment standard value (the Debris Rule Standard and Universal Treatment Standard for arsenic is 5 mg/L and for chromium is 0.6 mg/L).

Table 1: Concrete Sample Results - TCLP Metals
Northeast Treaters
June 23, 2014

Parameter	Arsenic (mg/L)		Chromium (mg/L)	
Debris Rule / Universal Treatment Standard	5		0.6	
Sample				
C-1A	0.0062	J B	5.7	B
C-1B	0.015	J B	5.3	B
C-1C	0.034	J B	0.83	B
C-2A	0.0054	J B	0.14	J B
C-2B	0.0069	J B	0.058	J B
C-2C	0.0073	J	0.077	J B
C-3A	0.0058	J B	4.3	B
C-3B	0.0060	J B	0.25	J B
C-3C	0.013	J B	0.88	B
C-4A	0.0063	J B	6.9	B
C-4B	0.013	J B	0.073	J B
C-4C	0.037	J B	0.12	J B

Bold indicates Debris Rule exceedance

B - Compound was found in the blank and sample

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

Table 1 compares the detected concentrations of arsenic and chromium in concrete samples, by TCLP analysis, to the Debris Rule standards outlined in 40 CFR Part 268.40 and the Universal Treatment Standard (UTS) outlined in 6 NYCRR Part 376. An exceedance of the Debris Rules standard indicates the respective portion of the concrete drip pad is hazardous waste when removed and disposed. An exceedance of the UTS indicates the respective portion of the concrete drip pad may be subject to the land disposal restrictions unless treated consistent with the Land Disposal Restrictions.

A review of Table 1 indicates that the detected concentrations by TCLP analysis of arsenic in concrete samples are below the respective Debris Rule standard and UTS for all twelve (12) concrete samples. However, the detected concentrations of chromium, by TCLP analysis, exceed the Debris Rule standard and the UTS at all sample depths at location S,C-01 and at certain sample depths at locations S,C-03 and S,C-04.

Table 2: Soil Sample Results - TCLP Metals
Northeast Treaters
June 23, 2014

Parameter	Arsenic (mg/L)		Chromium (mg/L)	
Contained-in Determination Level	50		6	
Sample				
S-1A	0.85	B	0.054	J B
S-1B	0.059	J B	0.080	J B
S-1C	0.0077	J B	0.0084	J B
S-1D	0.019	J B	0.0073	J B
S-1E	0.010	J B	0.0069	J B
S-2A	0.011	J B	0.0068	J B
S-2B	0.0078	J B	0.0072	J B
S-2C	0.0094	J B	0.0067	J B
S-2D	0.0075	J B	0.014	J B
S-2E	0.0068	J B	0.0064	J B
S-3A	0.011	J B	0.018	J B
S-3B	0.0047	J B	0.0074	J B
S-3C	0.0062	J B	0.0066	J B
S-3D	0.0083	J B	0.0074	J B
S-3E	0.0095	J B	0.0086	J B
S-4A	0.016	J B	0.0077	J B
S-4B	0.25	J B	0.032	J B
S-4C	0.17	J B	0.010	J B
S-4D	0.21	J B	0.013	J B
S-4E	0.27	J B	0.015	J B

Bold indicates Contained-in Determination Level exceedance

B - Compound was found in the blank and sample

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

Table 2 compares the detected concentrations of arsenic and chromium in soil samples, by TCLP analysis, to the contained-in determination level. The contained-in determination level was calculated by multiplying the UTS of the respective parameter by a factor of ten (10) as described in the United States Environmental Protection Agency *Guidance on Demonstrating Compliance With the Land Disposal Restrictions (LDR) Alternative Soil Treatment Standard*, dated July 2002. An exceedance of the contained-in determination level indicates that the respective soil is subject to RCRA C regulation and disposal requirements.

A review of Table 2 indicates that the detected concentrations of arsenic and chromium in soil samples, by TCLP analysis, are below the respective contained-in determination levels for all twenty (20) soil samples. As a result, the soil does not need to be managed as a hazardous waste and can be disposed, if necessary, at a RCRA Part D landfill or can be managed onsite within an Area of Concern (AOC).

**Table 3: Soil Sample Results - Total Recoverable Metals
Northeast Treaters
June 23, 2014**

Parameter	Arsenic (mg/kg)	Chromium (mg/kg)
Restricted Use Soil Cleanup Objectives	Commercial/Industrial: 16	(Hexavalent/Trivalent) Commercial: 400/1,500 Industrial: 800/6,800
Sample		
S-1A	1430	1060
S-1B	95.3	316
S-1C	6.7	20.6
S-1D	17.1	37.3
S-1E	9.2	25.6
S-2A	26.0	11.7
S-2B	10.1	20.8
S-2C	8.0	17.3
S-2D	7.2	17.3
S-2E	8.4	16.7
S-3A	56.8	76.5
S-3B	7.5	24.9
S-3C	9.0	29.8
S-3D	6.7	19.9
S-3E	7.0	22.9
S-4A	78.0	55.0
S-4B	39.7	66.8
S-4C	53.2	46.2
S-4D	64.1	40.7
S-4E	52.6	47.3

Bold indicates Commercial Use Soil Cleanup Objective (SCO) exceedance

New York has adopted Soil Cleanup Objectives (SCOs) for purposes of assessing whether soil cleanup is required at sites undergoing remediation under New York’s Superfund, brownfield cleanup and other remediation programs, including RCRA C. Although the Northeast Treaters’ facility is not undertaking a site remediation project and so is not subject to the SCOs, it elected to analyze arsenic and chromium in soil samples in relation to the SCOs to provide baseline information for possible use when the site is closed.

Table 3 compares the detected concentrations of arsenic and chromium in soil samples, by total metals analysis, to 6 NYCRR Part 375 Commercial and Industrial Use SCOs. An exceedance of the Commercial or Industrial Use SCOs indicates that site specific deed restrictions may be required upon remediation due to the presence of contaminants in soil at inactive hazardous waste disposal sites, RCRA corrective action sites, and/or sites undergoing remediation under New York’s brownfield cleanup program.

A review of Table 3 indicates that the detected concentrations of chromium, by total metals analysis, are below respective Commercial and Industrial Use SCOs for all twenty (20) soil samples. However, the analytical results report chromium concentrations as total chromium. It was assumed that the majority of hexavalent chromium has degraded to trivalent chromium since the facility switched to a non-hazardous preservative in 2003. Also, the red-ox conditions in soil generally favor chromium to be present as trivalent except where noticeable fractions of organic material are present in moist conditions. As such, the higher trivalent chromium Commercial Use SCO was used for the purposes of this report. Using the lower hexavalent chromium Commercial Use SCO would yield one exceedance in the uppermost portion of subsurface soil located in the

vicinity of location S,C-01.

The detected concentrations of arsenic, by total metals analysis, exceed the respective Commercial and Industrial Use SCOs at all sample locations . With the exception of S,C-04, arsenic concentrations decreased significantly at depth (below 1 foot bgs). At S,C-04 the arsenic concentrations in soil vary from a low of 39.7 ppm to a high of 78.0 ppm. The Commercial Use SCO is 16 ppm. No soil samples were obtained below six (6) feet bgs.

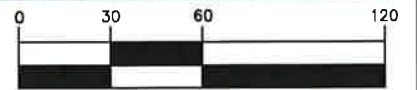
2014-08/Reports/Sampling Summary_txt.doc

FIGURE 1



LEGEND:

- PROPERTY BOUNDARY
- ⊙ S.C-01 SAMPLE LOCATION



1 inch = 60 ft.

MAP REFERENCE: NEW YORK STATEWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013

STERLING

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

SAMPLE LOCATION MAP NORTHEAST TREATERS 796 SCOHARIE TURNPIKE

TOWN OF ATHENS

GREENE CO., N.Y.

ATTACHMENT 1
LABORATORY ANALYTICAL REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-62517-1
Client Project/Site: NE Treater Project

For:
Sterling Environmental Engineering PC
24 Wade Road
Latham, New York 12110

Attn: Mr. Vedran Cirkovic



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.





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Definitions/Glossary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Job ID: 480-62517-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-62517-1

Comments

No additional comments.

Receipt

The samples were received on 6/24/2014 1:00 AM and 6/26/2014 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 3.1° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-1A

Lab Sample ID: 480-62517-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1430		7.5	1.5	mg/Kg	5	☼	6010C	Total/NA
Chromium	1060		1.0	0.20	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.85	B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.054	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-1B

Lab Sample ID: 480-62517-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	95.3		1.7	0.33	mg/Kg	1	☼	6010C	Total/NA
Chromium	316		1.1	0.22	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.059	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.080	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-1C

Lab Sample ID: 480-62517-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		1.7	0.34	mg/Kg	1	☼	6010C	Total/NA
Chromium	20.6		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.0077	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0084	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-1D

Lab Sample ID: 480-62517-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	17.1		1.8	0.37	mg/Kg	1	☼	6010C	Total/NA
Chromium	37.3		1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.019	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0073	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-1E

Lab Sample ID: 480-62517-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.2		1.6	0.32	mg/Kg	1	☼	6010C	Total/NA
Chromium	25.6		1.1	0.21	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.010	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0069	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-2A

Lab Sample ID: 480-62517-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26.0		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.7		0.90	0.18	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.011	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0068	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-2B

Lab Sample ID: 480-62517-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.1		1.6	0.33	mg/Kg	1	☼	6010C	Total/NA
Chromium	20.8		1.1	0.22	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-2B (Continued)

Lab Sample ID: 480-62517-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0078	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0072	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-2C

Lab Sample ID: 480-62517-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		1.6	0.32	mg/Kg	1	*	6010C	Total/NA
Chromium	17.3		1.1	0.22	mg/Kg	1	*	6010C	Total/NA
Arsenic	0.0094	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0067	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-2D

Lab Sample ID: 480-62517-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		1.7	0.34	mg/Kg	1	*	6010C	Total/NA
Chromium	17.3		1.1	0.23	mg/Kg	1	*	6010C	Total/NA
Arsenic	0.0075	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.014	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-2E

Lab Sample ID: 480-62517-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		1.6	0.32	mg/Kg	1	*	6010C	Total/NA
Chromium	16.7		1.1	0.21	mg/Kg	1	*	6010C	Total/NA
Arsenic	0.0068	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0064	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-3A

Lab Sample ID: 480-62517-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	56.8		1.5	0.31	mg/Kg	1	*	6010C	Total/NA
Chromium	76.5		1.0	0.21	mg/Kg	1	*	6010C	Total/NA
Arsenic	0.011	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.018	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-3B

Lab Sample ID: 480-62517-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		1.9	0.38	mg/Kg	1	*	6010C	Total/NA
Chromium	24.9		1.3	0.26	mg/Kg	1	*	6010C	Total/NA
Arsenic	0.0047	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0074	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-3C

Lab Sample ID: 480-62517-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		2.1	0.42	mg/Kg	1	*	6010C	Total/NA
Chromium	29.8		1.4	0.28	mg/Kg	1	*	6010C	Total/NA
Arsenic	0.0062	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0066	J B	0.50	0.0022	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-3D

Lab Sample ID: 480-62517-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		2.0	0.41	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.9		1.4	0.27	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.0083	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0074	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-3E

Lab Sample ID: 480-62517-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		1.9	0.38	mg/Kg	1	☼	6010C	Total/NA
Chromium	22.9		1.3	0.25	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.0095	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0086	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-4A

Lab Sample ID: 480-62517-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	78.0		1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Chromium	55.0		0.81	0.16	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.016	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.0077	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-4B

Lab Sample ID: 480-62517-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	39.7		1.7	0.34	mg/Kg	1	☼	6010C	Total/NA
Chromium	66.8		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.25	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.032	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-4C

Lab Sample ID: 480-62517-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	53.2		1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Chromium	46.2		0.81	0.16	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.17	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.010	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-4D

Lab Sample ID: 480-62517-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	64.1		1.5	0.30	mg/Kg	1	☼	6010C	Total/NA
Chromium	40.7		0.99	0.20	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.21	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.013	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: S-4E

Lab Sample ID: 480-62517-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	52.6		1.3	0.25	mg/Kg	1	☼	6010C	Total/NA
Chromium	47.3		0.85	0.17	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-4E (Continued)

Lab Sample ID: 480-62517-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.27	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.015	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-1A

Lab Sample ID: 480-62701-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		1.3	0.26	mg/Kg	1	✖	6010C	Total/NA
Chromium	262		0.88	0.18	mg/Kg	1	✖	6010C	Total/NA
Arsenic	0.0062	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	5.7	B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-1B

Lab Sample ID: 480-62701-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	740		2.6	0.53	mg/Kg	2	✖	6010C	Total/NA
Chromium	1610		0.88	0.18	mg/Kg	1	✖	6010C	Total/NA
Arsenic	0.015	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	5.3	B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-1C

Lab Sample ID: 480-62701-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1290		7.2	1.4	mg/Kg	5	✖	6010C	Total/NA
Chromium	726		0.96	0.19	mg/Kg	1	✖	6010C	Total/NA
Arsenic	0.034	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.83	B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-2A

Lab Sample ID: 480-62701-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.4		1.5	0.30	mg/Kg	1	✖	6010C	Total/NA
Chromium	20.0		1.0	0.20	mg/Kg	1	✖	6010C	Total/NA
Arsenic	0.0054	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.14	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-2B

Lab Sample ID: 480-62701-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		1.5	0.29	mg/Kg	1	✖	6010C	Total/NA
Chromium	15.5		0.98	0.20	mg/Kg	1	✖	6010C	Total/NA
Arsenic	0.0069	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.058	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-2C

Lab Sample ID: 480-62701-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		1.4	0.28	mg/Kg	1	✖	6010C	Total/NA
Chromium	13.1		0.94	0.19	mg/Kg	1	✖	6010C	Total/NA
Arsenic	0.0073	J	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.077	J B	0.50	0.0022	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: C-3A

Lab Sample ID: 480-62701-7

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Arsenic	9.1		1.5	0.29	mg/Kg	1	☼	6010C	Total/NA
Chromium	257		0.97	0.19	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.0058	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	4.3	B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-3B

Lab Sample ID: 480-62701-8

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Arsenic	48.7		1.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Chromium	61.0		0.87	0.17	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.0060	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.25	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-3C

Lab Sample ID: 480-62701-9

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Arsenic	88.5		1.6	0.31	mg/Kg	1	☼	6010C	Total/NA
Chromium	96.0		1.0	0.21	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.013	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.88	B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-4A

Lab Sample ID: 480-62701-10

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Arsenic	8.5		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Chromium	299		0.95	0.19	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.0063	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	6.9	B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-4B

Lab Sample ID: 480-62701-11

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Arsenic	198		1.3	0.26	mg/Kg	1	☼	6010C	Total/NA
Chromium	111		0.86	0.17	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.013	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.073	J B	0.50	0.0022	mg/L	1		6010C	TCLP

Client Sample ID: C-4C

Lab Sample ID: 480-62701-12

Analyte	Result	Qualifier	RL	MDL	Unit	DII Fac	D	Method	Prep Type
Arsenic	448		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Chromium	237		0.96	0.19	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.037	J B	0.50	0.0032	mg/L	1		6010C	TCLP
Chromium	0.12	J B	0.50	0.0022	mg/L	1		6010C	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-1A

Date Collected: 06/23/14 09:30

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-1

Matrix: Solid

Percent Solids: 96.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1430		7.5	1.5	mg/Kg	☼	06/26/14 13:15	06/30/14 14:21	5
Chromium	1060		1.0	0.20	mg/Kg	☼	06/26/14 13:15	06/30/14 12:29	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.85	B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:05	1
Chromium	0.054	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:05	1

Client Sample ID: S-1B

Date Collected: 06/23/14 09:35

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-2

Matrix: Solid

Percent Solids: 81.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	95.3		1.7	0.33	mg/Kg	☼	06/26/14 13:15	06/30/14 12:49	1
Chromium	316		1.1	0.22	mg/Kg	☼	06/26/14 13:15	06/30/14 12:49	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:09	1
Chromium	0.080	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:09	1

Client Sample ID: S-1C

Date Collected: 06/23/14 09:40

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-3

Matrix: Solid

Percent Solids: 78.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.7	0.34	mg/Kg	☼	06/26/14 13:15	06/30/14 12:53	1
Chromium	20.6		1.1	0.23	mg/Kg	☼	06/26/14 13:15	06/30/14 12:53	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0077	J B	0.50	0.0032	mg/L		07/01/14 11:11	07/02/14 15:59	1
Chromium	0.0084	J B	0.50	0.0022	mg/L		07/01/14 11:11	07/02/14 15:59	1

Client Sample ID: S-1D

Date Collected: 06/23/14 09:45

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-4

Matrix: Solid

Percent Solids: 78.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17.1		1.8	0.37	mg/Kg	☼	06/26/14 13:15	06/30/14 12:57	1
Chromium	37.3		1.2	0.24	mg/Kg	☼	06/26/14 13:15	06/30/14 12:57	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.019	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:21	1
Chromium	0.0073	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:21	1

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-1E

Date Collected: 06/23/14 09:50
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-5

Matrix: Solid
 Percent Solids: 75.1

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	9.2		1.6	0.32	mg/Kg	☼	06/26/14 13:15	06/30/14 13:01	1	
Chromium	25.6		1.1	0.21	mg/Kg	☼	06/26/14 13:15	06/30/14 13:01	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.010	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:25	1	
Chromium	0.0069	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:25	1	

Client Sample ID: S-2A

Date Collected: 06/23/14 10:30
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-6

Matrix: Solid
 Percent Solids: 90.7

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	26.0		1.3	0.27	mg/Kg	☼	06/26/14 13:15	06/30/14 13:13	1	
Chromium	11.7		0.90	0.18	mg/Kg	☼	06/26/14 13:15	06/30/14 13:13	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.011	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:30	1	
Chromium	0.0068	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:30	1	

Client Sample ID: S-2B

Date Collected: 06/23/14 10:35
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-7

Matrix: Solid
 Percent Solids: 75.3

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	10.1		1.6	0.33	mg/Kg	☼	06/26/14 13:15	06/30/14 13:17	1	
Chromium	20.8		1.1	0.22	mg/Kg	☼	06/26/14 13:15	06/30/14 13:17	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0078	J B	0.50	0.0032	mg/L		07/01/14 11:12	07/02/14 16:20	1	
Chromium	0.0072	J B	0.50	0.0022	mg/L		07/01/14 11:12	07/02/14 16:20	1	

Client Sample ID: S-2C

Date Collected: 06/23/14 10:40
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-8

Matrix: Solid
 Percent Solids: 82.3

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	8.0		1.6	0.32	mg/Kg	☼	06/26/14 13:15	06/30/14 13:21	1	
Chromium	17.3		1.1	0.22	mg/Kg	☼	06/26/14 13:15	06/30/14 13:21	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0094	J B	0.50	0.0032	mg/L		07/01/14 11:12	07/02/14 16:32	1	
Chromium	0.0067	J B	0.50	0.0022	mg/L		07/01/14 11:12	07/02/14 16:32	1	

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-2D

Date Collected: 06/23/14 10:45
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-9

Matrix: Solid
 Percent Solids: 79.1

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	7.2		1.7	0.34	mg/Kg	☼	06/26/14 13:15	06/30/14 13:25	1	
Chromium	17.3		1.1	0.23	mg/Kg	☼	06/26/14 13:15	06/30/14 13:25	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0075	J B	0.50	0.0032	mg/L		07/01/14 11:12	07/02/14 16:36	1	
Chromium	0.014	J B	0.50	0.0022	mg/L		07/01/14 11:12	07/02/14 16:36	1	

Client Sample ID: S-2E

Date Collected: 06/23/14 10:50
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-10

Matrix: Solid
 Percent Solids: 75.2

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	8.4		1.6	0.32	mg/Kg	☼	06/26/14 13:15	06/30/14 13:29	1	
Chromium	16.7		1.1	0.21	mg/Kg	☼	06/26/14 13:15	06/30/14 13:29	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0068	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:34	1	
Chromium	0.0064	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:34	1	

Client Sample ID: S-3A

Date Collected: 06/23/14 11:30
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-11

Matrix: Solid
 Percent Solids: 95.1

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	56.8		1.5	0.31	mg/Kg	☼	06/26/14 13:15	06/30/14 13:33	1	
Chromium	76.5		1.0	0.21	mg/Kg	☼	06/26/14 13:15	06/30/14 13:33	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.011	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:38	1	
Chromium	0.018	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:38	1	

Client Sample ID: S-3B

Date Collected: 06/23/14 11:35
 Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-12

Matrix: Solid
 Percent Solids: 76.8

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	7.5		1.9	0.38	mg/Kg	☼	06/26/14 13:15	06/30/14 13:37	1	
Chromium	24.9		1.3	0.26	mg/Kg	☼	06/26/14 13:15	06/30/14 13:37	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0047	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:47	1	
Chromium	0.0074	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:47	1	

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-3C

Date Collected: 06/23/14 11:40

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-13

Matrix: Solid

Percent Solids: 65.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		2.1	0.42	mg/Kg	✘	06/26/14 13:15	06/30/14 13:41	1
Chromium	29.8		1.4	0.28	mg/Kg	✘	06/26/14 13:15	06/30/14 13:41	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0062	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:51	1
Chromium	0.0066	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:51	1

Client Sample ID: S-3D

Date Collected: 06/23/14 11:45

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-14

Matrix: Solid

Percent Solids: 69.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		2.0	0.41	mg/Kg	✘	06/26/14 13:15	06/30/14 13:45	1
Chromium	19.9		1.4	0.27	mg/Kg	✘	06/26/14 13:15	06/30/14 13:45	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0083	J B	0.50	0.0032	mg/L		07/01/14 11:12	07/02/14 16:40	1
Chromium	0.0074	J B	0.50	0.0022	mg/L		07/01/14 11:12	07/02/14 16:40	1

Client Sample ID: S-3E

Date Collected: 06/23/14 11:50

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-15

Matrix: Solid

Percent Solids: 77.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.9	0.38	mg/Kg	✘	06/26/14 13:15	06/30/14 13:50	1
Chromium	22.9		1.3	0.25	mg/Kg	✘	06/26/14 13:15	06/30/14 13:50	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0095	J B	0.50	0.0032	mg/L		07/01/14 11:12	07/02/14 16:44	1
Chromium	0.0086	J B	0.50	0.0022	mg/L		07/01/14 11:12	07/02/14 16:44	1

Client Sample ID: S-4A

Date Collected: 06/23/14 12:15

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-16

Matrix: Solid

Percent Solids: 94.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	78.0		1.2	0.24	mg/Kg	✘	06/26/14 13:15	06/30/14 14:01	1
Chromium	55.0		0.81	0.16	mg/Kg	✘	06/26/14 13:15	06/30/14 14:01	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:55	1
Chromium	0.0077	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:55	1

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-4B

Date Collected: 06/23/14 12:20

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-17

Matrix: Solid

Percent Solids: 73.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	39.7		1.7	0.34	mg/Kg	✘	06/26/14 13:15	06/30/14 14:05	1
Chromium	66.8		1.1	0.23	mg/Kg	✘	06/26/14 13:15	06/30/14 14:05	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 17:43	1
Chromium	0.032	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 17:43	1

Client Sample ID: S-4C

Date Collected: 06/23/14 12:25

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-18

Matrix: Solid

Percent Solids: 92.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	53.2		1.2	0.24	mg/Kg	✘	06/26/14 13:15	06/30/14 14:09	1
Chromium	46.2		0.81	0.16	mg/Kg	✘	06/26/14 13:15	06/30/14 14:09	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.17	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 18:00	1
Chromium	0.010	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 18:00	1

Client Sample ID: S-4D

Date Collected: 06/23/14 12:30

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-19

Matrix: Solid

Percent Solids: 95.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	64.1		1.5	0.30	mg/Kg	✘	06/26/14 13:15	06/30/14 14:13	1
Chromium	40.7		0.99	0.20	mg/Kg	✘	06/26/14 13:15	06/30/14 14:13	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.21	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 18:12	1
Chromium	0.013	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 18:12	1

Client Sample ID: S-4E

Date Collected: 06/23/14 12:35

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-20

Matrix: Solid

Percent Solids: 95.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	52.6		1.3	0.25	mg/Kg	✘	06/26/14 13:15	06/30/14 14:17	1
Chromium	47.3		0.85	0.17	mg/Kg	✘	06/26/14 13:15	06/30/14 14:17	1

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.27	J B	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 18:16	1
Chromium	0.015	J B	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 18:16	1

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: C-1A
Date Collected: 06/25/14 13:00
Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-1
Matrix: Solid
Percent Solids: 93.3

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		1.3	0.26	mg/Kg	☒	06/30/14 10:54	07/01/14 13:13	1
Chromium	262		0.88	0.18	mg/Kg	☒	06/30/14 10:54	07/01/14 13:13	1

Method: 6010C - Metals (ICP) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0062	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:12	1
Chromium	5.7	B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:12	1

Client Sample ID: C-1B
Date Collected: 06/24/14 13:00
Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-2
Matrix: Solid
Percent Solids: 89.2

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	740		2.6	0.53	mg/Kg	☒	06/30/14 10:54	07/01/14 15:03	2
Chromium	1610		0.88	0.18	mg/Kg	☒	06/30/14 10:54	07/01/14 13:17	1

Method: 6010C - Metals (ICP) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:16	1
Chromium	5.3	B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:16	1

Client Sample ID: C-1C
Date Collected: 06/24/14 13:30
Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-3
Matrix: Solid
Percent Solids: 92.9

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1290		7.2	1.4	mg/Kg	☒	06/30/14 10:54	07/01/14 15:07	5
Chromium	726		0.96	0.19	mg/Kg	☒	06/30/14 10:54	07/01/14 13:21	1

Method: 6010C - Metals (ICP) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.034	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:20	1
Chromium	0.83	B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:20	1

Client Sample ID: C-2A
Date Collected: 06/25/14 13:30
Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-4
Matrix: Solid
Percent Solids: 93.6

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		1.5	0.30	mg/Kg	☒	06/30/14 10:54	07/01/14 13:25	1
Chromium	20.0		1.0	0.20	mg/Kg	☒	06/30/14 10:54	07/01/14 13:25	1

Method: 6010C - Metals (ICP) - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0054	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:25	1
Chromium	0.14	J B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:25	1

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: C-2B
 Date Collected: 06/24/14 14:00
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-5
 Matrix: Solid
 Percent Solids: 92.4

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	8.6		1.5	0.29	mg/Kg	☼	06/30/14 10:54	07/01/14 13:30	1	
Chromium	15.5		0.98	0.20	mg/Kg	☼	06/30/14 10:54	07/01/14 13:30	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0069	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:29	1	
Chromium	0.058	J B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:29	1	

Client Sample ID: C-2C
 Date Collected: 06/24/14 14:30
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-6
 Matrix: Solid
 Percent Solids: 94.5

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	6.7		1.4	0.28	mg/Kg	☼	06/30/14 10:54	07/01/14 13:34	1	
Chromium	13.1		0.94	0.19	mg/Kg	☼	06/30/14 10:54	07/01/14 13:34	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0073	J	0.50	0.0032	mg/L		07/02/14 10:35	07/03/14 15:55	1	
Chromium	0.077	J B	0.50	0.0022	mg/L		07/02/14 10:35	07/03/14 15:55	1	

Client Sample ID: C-3A
 Date Collected: 06/25/14 14:00
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-7
 Matrix: Solid
 Percent Solids: 94.8

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	9.1		1.5	0.29	mg/Kg	☼	06/30/14 10:54	07/01/14 13:38	1	
Chromium	257		0.97	0.19	mg/Kg	☼	06/30/14 10:54	07/01/14 13:38	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0058	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:33	1	
Chromium	4.3	B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:33	1	

Client Sample ID: C-3B
 Date Collected: 06/24/14 15:00
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-8
 Matrix: Solid
 Percent Solids: 90.7

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	48.7		1.3	0.26	mg/Kg	☼	06/30/14 10:54	07/01/14 13:50	1	
Chromium	61.0		0.87	0.17	mg/Kg	☼	06/30/14 10:54	07/01/14 13:50	1	

Method: 6010C - Metals (ICP) - TCLP										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0060	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:38	1	
Chromium	0.25	J B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:38	1	

TestAmerica Buffalo

Client Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: C-3C

Date Collected: 06/24/14 15:30

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-9

Matrix: Solid

Percent Solids: 91.4

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	88.5		1.6	0.31	mg/Kg	☼	06/30/14 10:54	07/01/14 13:54	1	
Chromium	96.0		1.0	0.21	mg/Kg	☼	06/30/14 10:54	07/01/14 13:54	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.013	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:50	1	
Chromium	0.88	B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:50	1	

Client Sample ID: C-4A

Date Collected: 06/25/14 14:30

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-10

Matrix: Solid

Percent Solids: 92.9

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	8.5		1.4	0.29	mg/Kg	☼	06/30/14 10:54	07/01/14 13:58	1	
Chromium	299		0.95	0.19	mg/Kg	☼	06/30/14 10:54	07/01/14 13:58	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.0063	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:54	1	
Chromium	6.9	B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:54	1	

Client Sample ID: C-4B

Date Collected: 06/24/14 16:00

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-11

Matrix: Solid

Percent Solids: 91.9

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	198		1.3	0.26	mg/Kg	☼	06/30/14 10:54	07/01/14 14:02	1	
Chromium	111		0.86	0.17	mg/Kg	☼	06/30/14 10:54	07/01/14 14:02	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.013	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 14:59	1	
Chromium	0.073	J B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 14:59	1	

Client Sample ID: C-4C

Date Collected: 06/24/14 16:30

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-12

Matrix: Solid

Percent Solids: 91.9

Method: 6010C - Metals (ICP)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	448		1.4	0.29	mg/Kg	☼	06/30/14 10:54	07/01/14 14:06	1	
Chromium	237		0.96	0.19	mg/Kg	☼	06/30/14 10:54	07/01/14 14:06	1	

Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.037	J B	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 15:03	1	
Chromium	0.12	J B	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 15:03	1	

TestAmerica Buffalo

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 240-136335/1-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 136770							Prep Batch: 136335				
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Arsenic	Result	Qualifier	1.5	0.30	mg/Kg		06/26/14 13:15	06/30/14 12:13	1		
Chromium	ND		1.0	0.20	mg/Kg		06/26/14 13:15	06/30/14 12:13	1		
Lab Sample ID: LCS 240-136335/2-A							Client Sample ID: Lab Control Sample				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 136770							Prep Batch: 136335				
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits				
Arsenic	Added	Result	Qualifier	mg/Kg		101	80 - 120				
Chromium	200	201.6		mg/Kg		101	80 - 120				
Lab Sample ID: 480-62517-1 MS							Client Sample ID: S-1A				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 136770							Prep Batch: 136335				
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits		
Chromium	Result	Qualifier	Added	Result	Qualifier	mg/Kg	☼	47	75 - 125		
Lab Sample ID: 480-62517-1 MS							Client Sample ID: S-1A				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 136770							Prep Batch: 136335				
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits		
Arsenic	Result	Qualifier	Added	Result	Qualifier	mg/Kg	☼	175	75 - 125		
Lab Sample ID: 480-62517-1 MSD							Client Sample ID: S-1A				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 136770							Prep Batch: 136335				
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
Chromium	Result	Qualifier	Added	Result	Qualifier	mg/Kg	☼	-297	75 - 125	7	20
Lab Sample ID: 480-62517-1 MSD							Client Sample ID: S-1A				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 136770							Prep Batch: 136335				
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	Result	Qualifier	Added	Result	Qualifier	mg/Kg	☼	48	75 - 125	15	20
Lab Sample ID: MB 240-136675/1-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 136858							Prep Batch: 136675				
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Arsenic	Result	Qualifier	1.5	0.30	mg/Kg		06/30/14 10:54	07/01/14 12:14	1		
Chromium	ND		1.0	0.20	mg/Kg		06/30/14 10:54	07/01/14 12:14	1		

TestAmerica Buffalo

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-136675/2-A
Matrix: Solid
Analysis Batch: 136858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	200	183.9		mg/Kg		92	80 - 120	
Chromium	20.0	17.84		mg/Kg		89	80 - 120	

Lab Sample ID: MB 240-136849/2-A
Matrix: Solid
Analysis Batch: 137045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136849

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.50	0.0032	mg/L		07/01/14 11:11	07/02/14 15:51	1
Chromium	0.00436	J	0.50	0.0022	mg/L		07/01/14 11:11	07/02/14 15:51	1

Lab Sample ID: LCS 240-136849/3-A
Matrix: Solid
Analysis Batch: 137045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	2.00	2.11		mg/L		106	50 - 150	
Chromium	0.200	0.199	J	mg/L		100	50 - 150	

Lab Sample ID: MB 240-136852/2-A
Matrix: Solid
Analysis Batch: 137045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136852

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 16:57	1
Chromium	0.00456	J	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 16:57	1

Lab Sample ID: LCS 240-136852/3-A
Matrix: Solid
Analysis Batch: 137045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	2.00	2.15		mg/L		107	50 - 150	
Chromium	0.200	0.198	J	mg/L		99	50 - 150	

Lab Sample ID: MB 240-137020/2-A
Matrix: Solid
Analysis Batch: 137227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137020

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.50	0.0032	mg/L		07/02/14 10:35	07/03/14 15:47	1
Chromium	0.00550	J	0.50	0.0022	mg/L		07/02/14 10:35	07/03/14 15:47	1

Lab Sample ID: LCS 240-137020/3-A
Matrix: Solid
Analysis Batch: 137227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	2.00	2.21		mg/L		111	50 - 150	

TestAmerica Buffalo

QC Sample Results

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-137020/3-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 137227						Prep Batch: 137020			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium	0.200	0.203	J	mg/L		101	50 - 150		

Lab Sample ID: MB 240-137029/2-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 137227						Prep Batch: 137029			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 12:51	1
Chromium	0.00475	J	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 12:51	1

Lab Sample ID: LCS 240-137029/3-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 137227						Prep Batch: 137029			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	2.00	2.32		mg/L		116	50 - 150		
Chromium	0.200	0.214	J	mg/L		107	50 - 150		

Lab Sample ID: LB 240-136749/1-B						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: TCLP			
Analysis Batch: 137045						Prep Batch: 136849			
Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00369	J	0.50	0.0032	mg/L		07/01/14 11:11	07/02/14 15:47	1
Chromium	0.00627	J	0.50	0.0022	mg/L		07/01/14 11:11	07/02/14 15:47	1

Lab Sample ID: 480-62517-3 MS						Client Sample ID: S-1C			
Matrix: Solid						Prep Type: TCLP			
Analysis Batch: 137045						Prep Batch: 136849			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0077	J B	5.00	5.15		mg/L		103	50 - 150
Chromium	0.0084	J B	5.00	4.75		mg/L		95	50 - 150

Lab Sample ID: 480-62517-3 MSD						Client Sample ID: S-1C					
Matrix: Solid						Prep Type: TCLP					
Analysis Batch: 137045						Prep Batch: 136849					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.0077	J B	5.00	5.21		mg/L		104	50 - 150	1	20
Chromium	0.0084	J B	5.00	4.84		mg/L		97	50 - 150	2	20

Lab Sample ID: LB 240-136748/1-B						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: TCLP			
Analysis Batch: 137045						Prep Batch: 136852			
Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00500	J	0.50	0.0032	mg/L		07/01/14 11:18	07/02/14 16:53	1
Chromium	0.00652	J	0.50	0.0022	mg/L		07/01/14 11:18	07/02/14 16:53	1

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QC Sample Results

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 240-136920/1-C						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: TCLP			
Analysis Batch: 137227						Prep Batch: 137020			
Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Arsenic	ND		0.50	0.0032	mg/L		07/02/14 10:35	07/03/14 15:43	1
Chromium	0.00493	J	0.50	0.0022	mg/L		07/02/14 10:35	07/03/14 15:43	1

Lab Sample ID: LB 240-136921/1-B						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: TCLP			
Analysis Batch: 137227						Prep Batch: 137029			
Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Arsenic	0.00461	J	0.50	0.0032	mg/L		07/02/14 10:52	07/03/14 12:47	1
Chromium	0.00735	J	0.50	0.0022	mg/L		07/02/14 10:52	07/03/14 12:47	1



QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Metals

Prep Batch: 136335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-1	S-1A	Total/NA	Solid	3050B	
480-62517-1 MS	S-1A	Total/NA	Solid	3050B	
480-62517-1 MSD	S-1A	Total/NA	Solid	3050B	
480-62517-2	S-1B	Total/NA	Solid	3050B	
480-62517-3	S-1C	Total/NA	Solid	3050B	
480-62517-4	S-1D	Total/NA	Solid	3050B	
480-62517-5	S-1E	Total/NA	Solid	3050B	
480-62517-6	S-2A	Total/NA	Solid	3050B	
480-62517-7	S-2B	Total/NA	Solid	3050B	
480-62517-8	S-2C	Total/NA	Solid	3050B	
480-62517-9	S-2D	Total/NA	Solid	3050B	
480-62517-10	S-2E	Total/NA	Solid	3050B	
480-62517-11	S-3A	Total/NA	Solid	3050B	
480-62517-12	S-3B	Total/NA	Solid	3050B	
480-62517-13	S-3C	Total/NA	Solid	3050B	
480-62517-14	S-3D	Total/NA	Solid	3050B	
480-62517-15	S-3E	Total/NA	Solid	3050B	
480-62517-16	S-4A	Total/NA	Solid	3050B	
480-62517-17	S-4B	Total/NA	Solid	3050B	
480-62517-18	S-4C	Total/NA	Solid	3050B	
480-62517-19	S-4D	Total/NA	Solid	3050B	
480-62517-20	S-4E	Total/NA	Solid	3050B	
LCS 240-136335/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-136335/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 136675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-1	C-1A	Total/NA	Solid	3050B	
480-62701-2	C-1B	Total/NA	Solid	3050B	
480-62701-3	C-1C	Total/NA	Solid	3050B	
480-62701-4	C-2A	Total/NA	Solid	3050B	
480-62701-5	C-2B	Total/NA	Solid	3050B	
480-62701-6	C-2C	Total/NA	Solid	3050B	
480-62701-7	C-3A	Total/NA	Solid	3050B	
480-62701-8	C-3B	Total/NA	Solid	3050B	
480-62701-9	C-3C	Total/NA	Solid	3050B	
480-62701-10	C-4A	Total/NA	Solid	3050B	
480-62701-11	C-4B	Total/NA	Solid	3050B	
480-62701-12	C-4C	Total/NA	Solid	3050B	
LCS 240-136675/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-136675/1-A	Method Blank	Total/NA	Solid	3050B	

Leach Batch: 136748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-1	S-1A	TCLP	Solid	1311	
480-62517-2	S-1B	TCLP	Solid	1311	
480-62517-4	S-1D	TCLP	Solid	1311	
480-62517-5	S-1E	TCLP	Solid	1311	
480-62517-6	S-2A	TCLP	Solid	1311	
480-62517-10	S-2E	TCLP	Solid	1311	
480-62517-11	S-3A	TCLP	Solid	1311	

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QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Metals (Continued)

Leach Batch: 136748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-12	S-3B	TCLP	Solid	1311	
480-62517-13	S-3C	TCLP	Solid	1311	
480-62517-16	S-4A	TCLP	Solid	1311	
480-62517-17	S-4B	TCLP	Solid	1311	
480-62517-18	S-4C	TCLP	Solid	1311	
480-62517-19	S-4D	TCLP	Solid	1311	
480-62517-20	S-4E	TCLP	Solid	1311	
LB 240-136748/1-B	Method Blank	TCLP	Solid	1311	

Leach Batch: 136749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-3	S-1C	TCLP	Solid	1311	
480-62517-3 MS	S-1C	TCLP	Solid	1311	
480-62517-3 MSD	S-1C	TCLP	Solid	1311	
480-62517-7	S-2B	TCLP	Solid	1311	
480-62517-8	S-2C	TCLP	Solid	1311	
480-62517-9	S-2D	TCLP	Solid	1311	
480-62517-14	S-3D	TCLP	Solid	1311	
480-62517-15	S-3E	TCLP	Solid	1311	
LB 240-136749/1-B	Method Blank	TCLP	Solid	1311	

Analysis Batch: 136770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-1	S-1A	Total/NA	Solid	6010C	136335
480-62517-1	S-1A	Total/NA	Solid	6010C	136335
480-62517-1 MS	S-1A	Total/NA	Solid	6010C	136335
480-62517-1 MS	S-1A	Total/NA	Solid	6010C	136335
480-62517-1 MSD	S-1A	Total/NA	Solid	6010C	136335
480-62517-1 MSD	S-1A	Total/NA	Solid	6010C	136335
480-62517-2	S-1B	Total/NA	Solid	6010C	136335
480-62517-3	S-1C	Total/NA	Solid	6010C	136335
480-62517-4	S-1D	Total/NA	Solid	6010C	136335
480-62517-5	S-1E	Total/NA	Solid	6010C	136335
480-62517-6	S-2A	Total/NA	Solid	6010C	136335
480-62517-7	S-2B	Total/NA	Solid	6010C	136335
480-62517-8	S-2C	Total/NA	Solid	6010C	136335
480-62517-9	S-2D	Total/NA	Solid	6010C	136335
480-62517-10	S-2E	Total/NA	Solid	6010C	136335
480-62517-11	S-3A	Total/NA	Solid	6010C	136335
480-62517-12	S-3B	Total/NA	Solid	6010C	136335
480-62517-13	S-3C	Total/NA	Solid	6010C	136335
480-62517-14	S-3D	Total/NA	Solid	6010C	136335
480-62517-15	S-3E	Total/NA	Solid	6010C	136335
480-62517-16	S-4A	Total/NA	Solid	6010C	136335
480-62517-17	S-4B	Total/NA	Solid	6010C	136335
480-62517-18	S-4C	Total/NA	Solid	6010C	136335
480-62517-19	S-4D	Total/NA	Solid	6010C	136335
480-62517-20	S-4E	Total/NA	Solid	6010C	136335
LCS 240-136335/2-A	Lab Control Sample	Total/NA	Solid	6010C	136335
MB 240-136335/1-A	Method Blank	Total/NA	Solid	6010C	136335

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QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Metals (Continued)

Prep Batch: 136849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-3	S-1C	TCLP	Solid	3010A	136749
480-62517-3 MS	S-1C	TCLP	Solid	3010A	136749
480-62517-3 MSD	S-1C	TCLP	Solid	3010A	136749
480-62517-7	S-2B	TCLP	Solid	3010A	136749
480-62517-8	S-2C	TCLP	Solid	3010A	136749
480-62517-9	S-2D	TCLP	Solid	3010A	136749
480-62517-14	S-3D	TCLP	Solid	3010A	136749
480-62517-15	S-3E	TCLP	Solid	3010A	136749
LB 240-136749/1-B	Method Blank	TCLP	Solid	3010A	136749
LCS 240-136849/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-136849/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 136852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-1	S-1A	TCLP	Solid	3010A	136748
480-62517-2	S-1B	TCLP	Solid	3010A	136748
480-62517-4	S-1D	TCLP	Solid	3010A	136748
480-62517-5	S-1E	TCLP	Solid	3010A	136748
480-62517-6	S-2A	TCLP	Solid	3010A	136748
480-62517-10	S-2E	TCLP	Solid	3010A	136748
480-62517-11	S-3A	TCLP	Solid	3010A	136748
480-62517-12	S-3B	TCLP	Solid	3010A	136748
480-62517-13	S-3C	TCLP	Solid	3010A	136748
480-62517-16	S-4A	TCLP	Solid	3010A	136748
480-62517-17	S-4B	TCLP	Solid	3010A	136748
480-62517-18	S-4C	TCLP	Solid	3010A	136748
480-62517-19	S-4D	TCLP	Solid	3010A	136748
480-62517-20	S-4E	TCLP	Solid	3010A	136748
LB 240-136748/1-B	Method Blank	TCLP	Solid	3010A	136748
LCS 240-136852/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-136852/2-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 136858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-1	C-1A	Total/NA	Solid	6010C	136675
480-62701-2	C-1B	Total/NA	Solid	6010C	136675
480-62701-2	C-1B	Total/NA	Solid	6010C	136675
480-62701-3	C-1C	Total/NA	Solid	6010C	136675
480-62701-3	C-1C	Total/NA	Solid	6010C	136675
480-62701-4	C-2A	Total/NA	Solid	6010C	136675
480-62701-5	C-2B	Total/NA	Solid	6010C	136675
480-62701-6	C-2C	Total/NA	Solid	6010C	136675
480-62701-7	C-3A	Total/NA	Solid	6010C	136675
480-62701-8	C-3B	Total/NA	Solid	6010C	136675
480-62701-9	C-3C	Total/NA	Solid	6010C	136675
480-62701-10	C-4A	Total/NA	Solid	6010C	136675
480-62701-11	C-4B	Total/NA	Solid	6010C	136675
480-62701-12	C-4C	Total/NA	Solid	6010C	136675
LCS 240-136675/2-A	Lab Control Sample	Total/NA	Solid	6010C	136675
MB 240-136675/1-A	Method Blank	Total/NA	Solid	6010C	136675

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QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Metals (Continued)

Leach Batch: 136920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-6	C-2C	TCLP	Solid	1311	
LB 240-136920/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 136921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-1	C-1A	TCLP	Solid	1311	
480-62701-2	C-1B	TCLP	Solid	1311	
480-62701-3	C-1C	TCLP	Solid	1311	
480-62701-4	C-2A	TCLP	Solid	1311	
480-62701-5	C-2B	TCLP	Solid	1311	
480-62701-7	C-3A	TCLP	Solid	1311	
480-62701-8	C-3B	TCLP	Solid	1311	
480-62701-9	C-3C	TCLP	Solid	1311	
480-62701-10	C-4A	TCLP	Solid	1311	
480-62701-11	C-4B	TCLP	Solid	1311	
480-62701-12	C-4C	TCLP	Solid	1311	
LB 240-136921/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 137020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-6	C-2C	TCLP	Solid	3010A	136920
LB 240-136920/1-C	Method Blank	TCLP	Solid	3010A	136920
LCS 240-137020/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-137020/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 137029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-1	C-1A	TCLP	Solid	3010A	136921
480-62701-2	C-1B	TCLP	Solid	3010A	136921
480-62701-3	C-1C	TCLP	Solid	3010A	136921
480-62701-4	C-2A	TCLP	Solid	3010A	136921
480-62701-5	C-2B	TCLP	Solid	3010A	136921
480-62701-7	C-3A	TCLP	Solid	3010A	136921
480-62701-8	C-3B	TCLP	Solid	3010A	136921
480-62701-9	C-3C	TCLP	Solid	3010A	136921
480-62701-10	C-4A	TCLP	Solid	3010A	136921
480-62701-11	C-4B	TCLP	Solid	3010A	136921
480-62701-12	C-4C	TCLP	Solid	3010A	136921
LB 240-136921/1-B	Method Blank	TCLP	Solid	3010A	136921
LCS 240-137029/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-137029/2-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 137045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-1	S-1A	TCLP	Solid	6010C	136852
480-62517-2	S-1B	TCLP	Solid	6010C	136852
480-62517-3	S-1C	TCLP	Solid	6010C	136849
480-62517-3 MS	S-1C	TCLP	Solid	6010C	136849
480-62517-3 MSD	S-1C	TCLP	Solid	6010C	136849
480-62517-4	S-1D	TCLP	Solid	6010C	136852
480-62517-5	S-1E	TCLP	Solid	6010C	136852

TestAmerica Buffalo

QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Metals (Continued)

Analysis Batch: 137045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-6	S-2A	TCLP	Solid	6010C	136852
480-62517-7	S-2B	TCLP	Solid	6010C	136849
480-62517-8	S-2C	TCLP	Solid	6010C	136849
480-62517-9	S-2D	TCLP	Solid	6010C	136849
480-62517-10	S-2E	TCLP	Solid	6010C	136852
480-62517-11	S-3A	TCLP	Solid	6010C	136852
480-62517-12	S-3B	TCLP	Solid	6010C	136852
480-62517-13	S-3C	TCLP	Solid	6010C	136852
480-62517-14	S-3D	TCLP	Solid	6010C	136849
480-62517-15	S-3E	TCLP	Solid	6010C	136849
480-62517-16	S-4A	TCLP	Solid	6010C	136852
480-62517-17	S-4B	TCLP	Solid	6010C	136852
480-62517-18	S-4C	TCLP	Solid	6010C	136852
480-62517-19	S-4D	TCLP	Solid	6010C	136852
480-62517-20	S-4E	TCLP	Solid	6010C	136852
LB 240-136748/1-B	Method Blank	TCLP	Solid	6010C	136852
LB 240-136749/1-B	Method Blank	TCLP	Solid	6010C	136849
LCS 240-136849/3-A	Lab Control Sample	Total/NA	Solid	6010C	136849
LCS 240-136852/3-A	Lab Control Sample	Total/NA	Solid	6010C	136852
MB 240-136849/2-A	Method Blank	Total/NA	Solid	6010C	136849
MB 240-136852/2-A	Method Blank	Total/NA	Solid	6010C	136852

Analysis Batch: 137227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-1	C-1A	TCLP	Solid	6010C	137029
480-62701-2	C-1B	TCLP	Solid	6010C	137029
480-62701-3	C-1C	TCLP	Solid	6010C	137029
480-62701-4	C-2A	TCLP	Solid	6010C	137029
480-62701-5	C-2B	TCLP	Solid	6010C	137029
480-62701-6	C-2C	TCLP	Solid	6010C	137020
480-62701-7	C-3A	TCLP	Solid	6010C	137029
480-62701-8	C-3B	TCLP	Solid	6010C	137029
480-62701-9	C-3C	TCLP	Solid	6010C	137029
480-62701-10	C-4A	TCLP	Solid	6010C	137029
480-62701-11	C-4B	TCLP	Solid	6010C	137029
480-62701-12	C-4C	TCLP	Solid	6010C	137029
LB 240-136920/1-C	Method Blank	TCLP	Solid	6010C	137020
LB 240-136921/1-B	Method Blank	TCLP	Solid	6010C	137029
LCS 240-137020/3-A	Lab Control Sample	Total/NA	Solid	6010C	137020
LCS 240-137029/3-A	Lab Control Sample	Total/NA	Solid	6010C	137029
MB 240-137020/2-A	Method Blank	Total/NA	Solid	6010C	137020
MB 240-137029/2-A	Method Blank	Total/NA	Solid	6010C	137029

General Chemistry

Analysis Batch: 136308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-1	S-1A	Total/NA	Solid	Moisture	
480-62517-1 DU	S-1A	Total/NA	Solid	Moisture	
480-62517-2	S-1B	Total/NA	Solid	Moisture	

TestAmerica Buffalo

QC Association Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

General Chemistry (Continued)

Analysis Batch: 136308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62517-3	S-1C	Total/NA	Solid	Moisture	
480-62517-4	S-1D	Total/NA	Solid	Moisture	
480-62517-5	S-1E	Total/NA	Solid	Moisture	
480-62517-6	S-2A	Total/NA	Solid	Moisture	
480-62517-7	S-2B	Total/NA	Solid	Moisture	
480-62517-8	S-2C	Total/NA	Solid	Moisture	
480-62517-9	S-2D	Total/NA	Solid	Moisture	
480-62517-10	S-2E	Total/NA	Solid	Moisture	
480-62517-11	S-3A	Total/NA	Solid	Moisture	
480-62517-11 DU	S-3A	Total/NA	Solid	Moisture	
480-62517-12	S-3B	Total/NA	Solid	Moisture	
480-62517-13	S-3C	Total/NA	Solid	Moisture	
480-62517-14	S-3D	Total/NA	Solid	Moisture	
480-62517-15	S-3E	Total/NA	Solid	Moisture	
480-62517-16	S-4A	Total/NA	Solid	Moisture	
480-62517-17	S-4B	Total/NA	Solid	Moisture	
480-62517-18	S-4C	Total/NA	Solid	Moisture	
480-62517-19	S-4D	Total/NA	Solid	Moisture	
480-62517-20	S-4E	Total/NA	Solid	Moisture	

Analysis Batch: 137041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-62701-1	C-1A	Total/NA	Solid	Moisture	
480-62701-2	C-1B	Total/NA	Solid	Moisture	
480-62701-3	C-1C	Total/NA	Solid	Moisture	
480-62701-4	C-2A	Total/NA	Solid	Moisture	
480-62701-5	C-2B	Total/NA	Solid	Moisture	
480-62701-6	C-2C	Total/NA	Solid	Moisture	
480-62701-6 DU	C-2C	Total/NA	Solid	Moisture	
480-62701-7	C-3A	Total/NA	Solid	Moisture	
480-62701-8	C-3B	Total/NA	Solid	Moisture	
480-62701-9	C-3C	Total/NA	Solid	Moisture	
480-62701-10	C-4A	Total/NA	Solid	Moisture	
480-62701-11	C-4B	Total/NA	Solid	Moisture	
480-62701-12	C-4C	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-1A

Lab Sample ID: 480-62517-1

Date Collected: 06/23/14 09:30

Matrix: Solid

Date Received: 06/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:05	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 12:29	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		5	136770	06/30/14 14:21	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN



9

Client Sample ID: S-1B

Lab Sample ID: 480-62517-2

Date Collected: 06/23/14 09:35

Matrix: Solid

Date Received: 06/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:09	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 12:49	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-1C

Lab Sample ID: 480-62517-3

Date Collected: 06/23/14 09:40

Matrix: Solid

Date Received: 06/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136749	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136849	07/01/14 11:11	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 15:59	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 12:53	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-1D

Lab Sample ID: 480-62517-4

Date Collected: 06/23/14 09:45

Matrix: Solid

Date Received: 06/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:21	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 12:57	RKT	TAL CAN

TestAmerica Buffalo

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-1D

Date Collected: 06/23/14 09:45

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-1E

Date Collected: 06/23/14 09:50

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:25	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:01	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

9

Client Sample ID: S-2A

Date Collected: 06/23/14 10:30

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:30	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:13	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-2B

Date Collected: 06/23/14 10:35

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136749	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136849	07/01/14 11:12	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 16:20	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:17	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Lab Chronicle

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-2C

Date Collected: 06/23/14 10:40

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136749	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136849	07/01/14 11:12	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 16:32	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:21	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-2D

Date Collected: 06/23/14 10:45

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136749	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136849	07/01/14 11:12	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 16:36	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:25	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-2E

Date Collected: 06/23/14 10:50

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:34	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:29	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-3A

Date Collected: 06/23/14 11:30

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:38	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:33	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

TestAmerica Buffalo

Lab Chronicle

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-3B

Date Collected: 06/23/14 11:35

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:47	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:37	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-3C

Date Collected: 06/23/14 11:40

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:51	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:41	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-3D

Date Collected: 06/23/14 11:45

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136749	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136849	07/01/14 11:12	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 16:40	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:45	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-3E

Date Collected: 06/23/14 11:50

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136749	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136849	07/01/14 11:12	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 16:44	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 13:50	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

TestAmerica Buffalo

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-4A

Date Collected: 06/23/14 12:15

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:55	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 14:01	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-4B

Date Collected: 06/23/14 12:20

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 17:43	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 14:05	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-4C

Date Collected: 06/23/14 12:25

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 18:00	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 14:09	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: S-4D

Date Collected: 06/23/14 12:30

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 18:12	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 14:13	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

TestAmerica Buffalo

Lab Chronicle

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: S-4E

Date Collected: 06/23/14 12:35

Date Received: 06/24/14 01:00

Lab Sample ID: 480-62517-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136748	06/30/14 17:50	SMH	TAL CAN
TCLP	Prep	3010A			136852	07/01/14 11:18	ADS	TAL CAN
TCLP	Analysis	6010C		1	137045	07/02/14 18:16	RKT	TAL CAN
Total/NA	Prep	3050B			136335	06/26/14 13:15	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136770	06/30/14 14:17	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	136308	06/26/14 11:00	BLW	TAL CAN

Client Sample ID: C-1A

Date Collected: 06/25/14 13:00

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:12	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:13	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-1B

Date Collected: 06/24/14 13:00

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:16	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:17	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		2	136858	07/01/14 15:03	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-1C

Date Collected: 06/24/14 13:30

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:20	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:21	RKT	TAL CAN

TestAmerica Buffalo

Lab Chronicle

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: C-1C

Date Collected: 06/24/14 13:30
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-3

Matrix: Solid
 Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		5	136858	07/01/14 15:07	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-2A

Date Collected: 06/25/14 13:30
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:25	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:25	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-2B

Date Collected: 06/24/14 14:00
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:29	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:30	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-2C

Date Collected: 06/24/14 14:30
 Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136920	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137020	07/02/14 10:35	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 15:55	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:34	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Lab Chronicle

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: C-3A

Date Collected: 06/25/14 14:00

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:33	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:38	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-3B

Date Collected: 06/24/14 15:00

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:38	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:50	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-3C

Date Collected: 06/24/14 15:30

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:50	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:54	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-4A

Date Collected: 06/25/14 14:30

Date Received: 06/26/14 01:30

Lab Sample ID: 480-62701-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:54	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 13:58	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

TestAmerica Buffalo



Lab Chronicle

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Client Sample ID: C-4B

Lab Sample ID: 480-62701-11

Date Collected: 06/24/14 16:00

Matrix: Solid

Date Received: 06/26/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 14:59	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 14:02	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 11:42	AS	TAL CAN

Client Sample ID: C-4C

Lab Sample ID: 480-62701-12

Date Collected: 06/24/14 16:30

Matrix: Solid

Date Received: 06/26/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			136921	07/01/14 18:15	DRJ	TAL CAN
TCLP	Prep	3010A			137029	07/02/14 10:52	DEE	TAL CAN
TCLP	Analysis	6010C		1	137227	07/03/14 15:03	RKT	TAL CAN
Total/NA	Prep	3050B			136675	06/30/14 10:54	DEE	TAL CAN
Total/NA	Analysis	6010C		1	136858	07/01/14 14:06	RKT	TAL CAN
Total/NA	Analysis	Moisture		1	137041	07/02/14 13:52	AS	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Certification Summary

Client: Sterling Environmental Engineering PC
 Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-14 *
Georgia	State Program	4	N/A	06-30-14 *
Illinois	NELAP	5	200004	07-31-14 *
Kansas	NELAP	7	E-10336	01-31-15
Kentucky (UST)	State Program	4	58	06-30-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-14 *
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-14 *
Texas	NELAP	6		08-31-14 *
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-14 *
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	12-31-14
Wisconsin	State Program	5	999518190	08-31-14 *

* Certification renewal pending - certification considered valid.



Sample Summary

Client: Sterling Environmental Engineering PC
Project/Site: NE Treater Project

TestAmerica Job ID: 480-62517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-62517-1	S-1A	Solid	06/23/14 09:30	06/24/14 01:00
480-62517-2	S-1B	Solid	06/23/14 09:35	06/24/14 01:00
480-62517-3	S-1C	Solid	06/23/14 09:40	06/24/14 01:00
480-62517-4	S-1D	Solid	06/23/14 09:45	06/24/14 01:00
480-62517-5	S-1E	Solid	06/23/14 09:50	06/24/14 01:00
480-62517-6	S-2A	Solid	06/23/14 10:30	06/24/14 01:00
480-62517-7	S-2B	Solid	06/23/14 10:35	06/24/14 01:00
480-62517-8	S-2C	Solid	06/23/14 10:40	06/24/14 01:00
480-62517-9	S-2D	Solid	06/23/14 10:45	06/24/14 01:00
480-62517-10	S-2E	Solid	06/23/14 10:50	06/24/14 01:00
480-62517-11	S-3A	Solid	06/23/14 11:30	06/24/14 01:00
480-62517-12	S-3B	Solid	06/23/14 11:35	06/24/14 01:00
480-62517-13	S-3C	Solid	06/23/14 11:40	06/24/14 01:00
480-62517-14	S-3D	Solid	06/23/14 11:45	06/24/14 01:00
480-62517-15	S-3E	Solid	06/23/14 11:50	06/24/14 01:00
480-62517-16	S-4A	Solid	06/23/14 12:15	06/24/14 01:00
480-62517-17	S-4B	Solid	06/23/14 12:20	06/24/14 01:00
480-62517-18	S-4C	Solid	06/23/14 12:25	06/24/14 01:00
480-62517-19	S-4D	Solid	06/23/14 12:30	06/24/14 01:00
480-62517-20	S-4E	Solid	06/23/14 12:35	06/24/14 01:00
480-62701-1	C-1A	Solid	06/25/14 13:00	06/26/14 01:30
480-62701-2	C-1B	Solid	06/24/14 13:00	06/26/14 01:30
480-62701-3	C-1C	Solid	06/24/14 13:30	06/26/14 01:30
480-62701-4	C-2A	Solid	06/25/14 13:30	06/26/14 01:30
480-62701-5	C-2B	Solid	06/24/14 14:00	06/26/14 01:30
480-62701-6	C-2C	Solid	06/24/14 14:30	06/26/14 01:30
480-62701-7	C-3A	Solid	06/25/14 14:00	06/26/14 01:30
480-62701-8	C-3B	Solid	06/24/14 15:00	06/26/14 01:30
480-62701-9	C-3C	Solid	06/24/14 15:30	06/26/14 01:30
480-62701-10	C-4A	Solid	06/25/14 14:30	06/26/14 01:30
480-62701-11	C-4B	Solid	06/24/14 16:00	06/26/14 01:30
480-62701-12	C-4C	Solid	06/24/14 16:30	06/26/14 01:30

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Chain of Custody Record

Carrier Tracking No(s): _____

COC No: 480-51222-13675.1
Page: Page 1 of 3
Job #:

Lab No: _____

Sampler: _____
Phone: _____

Client Information
Client Contact: Mr. Vedran Cirkovic
Company: Sterling Environmental Engineering PC
Address: 24 Wads Road
City: Latham
State, Zip: NY, 12110
Phone: 518-456-4900(Tel)
Email: vedran.cirkovic@sterlingenvironmental.com
Project Name: NE Treater Project
Site:

Due Date Requested: _____
TAT Requested (days): **Standard**
PO #: _____
Purchase Order: not required
WO #: _____
Project #: 48010042
SSOW#: _____

60100 - TCLP Metals ICP
60100 - Total Metals ICP

Field Filtered Sample (Yes or No) N
Perform MS/MSD (Yes or No) N
60100 - TCLP Metals ICP N
60100 - Total Metals ICP N

480-62517 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code	Special Instructions/Notes
S-1A	6/23/14	9:30am	G	Solid		
S-1B		9:35am		Solid		
S-1C		9:40am		Solid		
S-1D		9:45am		Solid		
S-1E		9:50am		Solid		
S-2A		10:30am		Solid		
S-2B		10:35am		Solid		
S-2C		10:40am		Solid		
S-2D		10:45am		Solid		
S-2E		10:50am		Solid		

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDTA
Other:

M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - NCA
W - ph 4-5
Z - other (specify)

Special Instructions/Notes:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____
Relinquished by: _____
Relinquished by: _____
Relinquished by: _____

Date: _____
Date/Time: 6/23/14 @ 2:30pm
Date/Time: 6/23/14 14:43
Date/Time: 6/24/14 01:00

Company: _____
Company: TA
Company: TA

Cooler Temperature(s) °C and Other Remarks: 3 6#1

TestAmerica Albany
 25 Kraft Road
 Albany, NY 12205

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Mr. Vedran Cirkovic Company: Sterling Environmental Engineering PC Address: 24 Wade Road City: Latham State, Zip: NY, 12110 Phone: 518-456-4900(Tel) Email: vedran.cirkovic@sterlingenvironmental.com Project Name: NE Treater Project Site:		Lab POC: Shafler, Lisa E E-Mail: lisa.shafler@testamericainc.com Center Tracking No(s): 480-51222-13675.1 Page: 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - other (specify)	
Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix (Symmetric, Spiked, Omnidirectional, etc.)		Special Instructions/Notes: 0100C - Total Metals (CP) 0101C - TCLP Metals (CP)	
S-3A	6/23/14 11:30am	G	Solid
S-3B	11:36am		Solid
S-3C	11:40am		Solid
S-3D	11:45am		Solid
S-3E	11:50am		Solid
S-4A	12:15pm		Solid
S-4B	12:20pm		Solid
S-4C	12:25pm		Solid
S-4D	12:30pm		Solid
S-4E	12:35pm		Solid
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:		Date:	
Relinquished by: [Signature]		Date Time: 6/23/14 @ 2:30pm	
Relinquished by: [Signature]		Date Time: 6-23-14 18:00	
Relinquished by: [Signature]		Date Time:	
Custody Seal Intact: A - Yes B - No		Custody Seal No.	

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TestAmerica Albany
 25 Kraft Road
 Albany, NY 12205

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Mr. Vedran Cirkovic Company: Sterling Environmental Engineering PC Address: 24 Wayne Road City: Latham State, Zip: NY, 12110 Phone: 518-456-4000(Tel) Email: vedran.cirkovic@sterlingenvironmental.com Project Name: NE Trestler Project State:		Lab Pk: Staffer, Lisa E-MAIL: lisa.shaff	
Sample:		DOC No: 480-51222-13675.1 Page: Page 1 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Matrix (Invert, Residual, Dissolved, FTY (Trace, Analy))		Special Instructions/Notes:	
Sample Identification C-1A C-1B C-1C C-2A C-2B C-2C C-3A C-3B C-3C C-4A C-4B	Sample Date 6/25/14 6/24/14 6/24/14 6/25/14 6/24/14 6/24/14 6/25/14 6/24/14 6/24/14 6/25/14 6/24/14 6/25/14	Sample Time 1:00pm 1:00pm 1:30pm 1:30pm 2:00pm 2:30pm 2:00pm 3:00pm 3:30pm 2:30pm 4:00pm	Sample Type (C-comp, G-grab) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Special Instructions/OC Requirements:	
Relinquished by: [Signature] Date/Time: 6/25/14 15:00 Company: TA		Relinquished by: [Signature] Date/Time: 6/25/14 16:30 Company: TA	
Relinquished by: [Signature] Date/Time: 6/25/14 15:00 Company: TA		Relinquished by: [Signature] Date/Time: 6/25/14 16:30 Company: TA	
Custody Seal No. A-Yes J-No		Other Remarks: 2456	

Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-62517-1

Login Number: 62517

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-62517-1

Login Number: 62701

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	