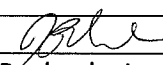
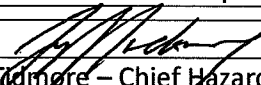


**Region 6 Compliance Assurance and Enforcement Division
INSPECTION REPORT**

Inspection Date(s):	June 24-26, 2014		
Media:	RCRA		
Regulatory Program(s)	LQG		
Company Name:	Sloan Valve Company		
Facility Name:			
Facility Physical Location:	2719 Business Highway 33		
(city, state, zip code)	Augusta, Arkansas 72006		
Mailing address:	P.O. Box 60		
(city, state, zip code)	Augusta, Arkansas 72006		
County/Parish:			
Facility Contact:	Eric Schol	Safety Environmental Manager	
	eschol@sloanvalva.com		
FRS Number:	110000597818		
Identification/Permit Number:			
Media Number:	ARD077389393		
NAICS:	33152		
SIC:	336		
Personnel participating in inspection:			
John Penland	EPA Region 6 (6EN-HE)	RCRA Inspector	214-665-9717
David Robertson	EPA Region 6 (6EN-HE)	RCRA Inspector	214-665-7363
EPA Lead Inspector Signature/Date	 John Penland – Lead Inspector		4/27/2015 Date
Supervisor Signature/Date	 Guy Toomre – Chief Hazardous Waste Enforcement		4/27/2015 Date

Region 6 Compliance Assurance and Enforcement Division

INSPECTION REPORT

Inspection Date(s):	June 24-26, 2014		
Media:	RCRA		
Regulatory Program(s)	LQG		
Company Name:	Sloan Valve Company		
Facility Name:			
Facility Physical Location:	2719 Business Highway 33		
(city, state, zip code)	Augusta, Arkansas 72006		
Mailing address:	P.O. Box 60		
(city, state, zip code)	Augusta, Arkansas 72006		
County/Parish:			
Facility Contact:	Eric Schol	Safety Environmental Manager	
	eschol@sloanvalva.com		
FRS Number:	110000597818		
Identification/Permit Number:			
Media Number:	ARD077389393		
NAICS:	33152		
SIC:	336		
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John Penland	EPA Region 6 (6EN-HE)	RCRA Inspector	214-665-9717
David Robertson	EPA Region 6 (6EN-HE)	RCRA Inspector	214-665-7363
EPA Lead Inspector			
Signature/Date	John Penland – Lead Inspector		Date
Supervisor			
Signature/Date	Guy Tidmore – Chief Hazardous Waste Enforcement		Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 inspectors John Penland and David Robertson arrived at the Sloan Valve Company (the facility) at 09:30 am on June 24, 2014 for an unannounced facility compliance inspection. I presented my credentials to Eric Schol, the facility's Safety and Environmental Manager, and informed him that this was an EPA inspection to evaluate the facility's compliance with the applicable requirement of the Resource Conservation and Recovery Act (RCRA). This inspection included a review of the facility's process areas, waste treatment areas, and onsite landfill. During this review we collected samples of the facility's waste streams and disposed waste for analysis by EPA's Region 6 Laboratory.

FACILITY DESCRIPTION

The Sloan Valve Augusta Arkansas facility operates as a brass foundry manufacturing plumbing fixtures. This process utilizes thermally moldable sand to create the brass molding forms. This sand is cycled through the process multiple times until it is no longer suitable for use. The now spent mold sand demonstrates the hazardous waste characteristic for lead toxicity. Sloan Valve elects to treat this waste and dispose of it in an onsite landfill. The following sections discuss the facility units where this material is managed.

Sand Plant

The sand plant uses a series of ball mills and screens to recycle the sand used in the foundry molds. It is the primary point of generation for the spent mold sand which is treated and eventually disposed in the onsite landfill. While most of the used sand in the sand plant is returned to the process, sand collected at dropout 01-S is destined for treatment and disposal. Sand collected at dropout 02-S may also be designated as waste based on determination by the sand plant supervisor.

Pangborn Shot Blast Unit

The Pangborn Shot Blast Unit is used for shot peening of the brass fixtures and also removes residual sand. The spent sand mixed with shot residues is conveyed to a tank where it is accumulated prior to disposal in the onsite landfill. Incorporated into the conveyor system is a treatment reagent addition point which applies the dry treatment reagent, Free flow 100, directly onto the conveyor with the spent sand and shot residue.

Ball Mill Building

The waste sands are treated in the ball mill building. The first step uses a ball mill to pulverize the waste sand. It is then passed through a magnet and screen to remove any remaining brass which can be reclaimed. The waste sand is then conveyed to a tank where it is accumulated prior to disposal in the onsite landfill. A Freeflow 100 addition point is incorporated into this conveyor system.

Zinc Oxide Collector

Off-gas emissions from the furnaces in the melting center are routed through a dust collector. The material collected in the dust collector is composed primarily of zinc oxide; however, due to impurities, it is considered a hazardous waste. The zinc oxide is shipped off-site for reclamation through Waste Service, Inc. (WSI).

Section II – OBSERVATIONS

On June 24, 2014, we conducted our walkthrough of the facility's process and waste management areas. During this walkthrough we reviewed the facility's hazardous waste management practices and identified areas for sampling the following day.

Hazardous Waste Staging Area

The facility maintains a designated area of the facility for the temporary storage of containers of hazardous waste. This area is separated from the production areas by a low metal wall that is clearly marked as a hazardous waste management area. Within this area the facility stores containers of floor sweep, waste sand, used baghouse bags, and other materials designated as hazardous waste. At the time of this inspection, we noted the following areas of concern:

- One container of waste filter bags was open.
- One open hopper of floor sweep was stored in the area. This hopper was open and unlabeled. According to Eric Schol the contents of this hopper would be treated in the ball mill building as a hazardous waste.

North Baghouse Pad

The North baghouse pad is the concrete lined area located on the northeast corner of the building and serves as the foundation for the baghouses SN11 and SN12. When we visited this area on June 24, 2014, we observed a material which appeared visually similar to the facility's mold sand deposited on the soils on the periphery of this concrete pad. As a result of this observation, we designated this area as a sample collection point for June 25, 2014.

Sand Plant

The Sand Plant is located in the southeast corner of the production building. The waste sand outlet points dump into open-topped, pre-labeled, steel hoppers. At this time of this inspection, we observed one container of waste sand staged near the sand unit while waiting to be moved to the ball mill building. The container was open when we observed it.

Ball Mill Building

When we visited the ball mill building June 24, 2014, the unit was in operation with the east door open. A small fan was positioned in the doorway for the comfort of the employees, but visible dust was being generated by the ball mill.

This building was designated as one of the sample collection points for June 25, 2014. When we returned to the unit on June 25th, we observed piles of sand on the floor beneath the ball mill and decided to include this material in our sampling activity. In addition, we identified a breach in the north wall of the building.

Landfill

At the time of this inspection, the landfill was nearing its permitted capacity. The active area of the landfill was limited to an area of approximately 20 yards wide and 50 yards long. The remaining portion of the landfill had been covered with a newly installed earthen cap. The active area had been recently graded. We designated this area for sample collection and included the waters collected at the toe of the active slope.

Sampling

On June 25, 2014, David Robertson and I returned to the facility to collect samples in the areas we identified on June 24th. We photographed each sample location and collected sample. We provided a split of each sample to Eric Schol.

Key to Collected Samples

Sample S01 – A multi-point composite sample collected from the perimeter of the north baghouse pad.

Sample S02 – A grab sample of untreated, waste sand and fines from the outlet of the Pangborn Shotblast Unit. This sample was collected at the Freeflow injection point with the Freeflow valve closed.

Sample S03 – A grab sample of treated waste sand and fines collected from the supersack at 01CR.

Sample S04 – A grab sample of untreated waste sand from the sand unit collected from a container of sand generated on June 23, 2014.

Sample S05 – A grab sample of treated waste sand prior to disposal in the onsite landfill. This sample was collected directly from the dump truck used to convey waste from the ball mill building to the onsite landfill for disposal.

Sample S06 – A grab of waste generated from baghouse 01SP. This sample was collected from a supersack generated on June 24, 2014.

Sample S07 – A sample of disposed waste sand from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 1 of 10.

Sample S08 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 2 of 10.

Sample S09 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 3 of 10.

Sample S10 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 3 of 10 and serves as a collocated sample.

Sample S11 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 4 of 10.

Sample S12 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 5 of 10.

Sample S13 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 6 of 10.

Sample S14 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 7 of 10.

Sample S15 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 8 of 10.

Sample S16 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 9 of 10.

Sample S17 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 10 of 10.

Sample S18 – A sample of disposed waste from the onsite landfill. This sample was collected from the top 2-4 inches of the active disposal area in the landfill. Sample locations in the landfill were laid out in a 2x5 offset grid. This is sample point 10 of 10 and serves as a collocated sample.

Sample S19 – A sample of liquids collected from the toe of the landfill.

Sample S20 – A sample of sand collected from a pile beneath the ball mill in the ball mill building.

Each sample was sent on the afternoon of June 25, 2014 to the EPA Region 6 laboratory for analysis. The final analytical report is included as Appendix 3.

Document Review

On June 26, 2014, we met in the office of Eric Schol to review the facility's RCRA required compliance records. The records reviewed and any noted areas of concern follow:

Facility Contingency Plan – No concerns noted

Hazardous waste manifests for FY2012 through FY 2014 to date – No concerns noted

Employee training documents – According to the records we reviewed onsite, employees are not trained annually in hazardous waste management or the contingency plan. No record exists indicating which employees are engaged in work which would require regular training. The records the facility provided to us are included as Appendix 4.

Foundry Management plan – According to Eric Schol, Sloan Valve operates in accordance with the "Foundry Materials Processing Management Plan" which was prepared for Sloan Valve by Free Flow Technologies, LTD. This document is included as Appendix 5.

Hazardous Waste Inspection Logs – No concerns noted.

Section III – AREAS OF CONCERN

- Two open containers and one unlabeled container of hazardous waste were located in the Hazardous Waste staging area.
- One open container of hazardous waste was located at the sand unit.
- The ball mill was being operated with the doors of the ball mill building open.
- The sample of treated waste collected from the dump truck (S05) exceeded the standard for land disposal.
- The samples of disposed waste collected from each of the 10 sample locations in the onsite landfill (S07-S18) exceeded the standard for land disposal.
- The samples of disposed waste collected from 3 of the 10 sample locations in the onsite landfill (S12, S13, and S16) exceeded the threshold for the hazardous waste characteristic of lead toxicity (D008).
- The facility does not conduct annual hazardous waste training for its employees or maintain records necessary to identify which employees would require such training.

Section IV – LIST OF APPENDICES

Appendix 1 – Photo Log

Appendix 2 – Facility Map

Appendix 3 – Final Analytical Report by EPA Region 6 Laboratory

Appendix 4 – Records of Employee Training

Appendix 5 – Foundry Materials Processing Management Plan

Appendix 1

Excerpt of Inspection Photos



Photo File Name: DSCF2674.JPG

Date of Photo: 6/24/2014

Time of Photo: 10:08AM

Photographer: John Penland

Description: Open container of Hazardous waste filter bags



Photo File Name: DSCF2729.JPG

Date of Photo: 6/24/2014

Time of Photo: 11:28AM

Photographer: John Penland

Description: Active area of onsite Landfill



Photo File Name: DSCF2781.JPG

Date of Photo: 6/25/2014

Time of Photo: 11:18AM

Photographer: John Penland

Description: Ball Mill treatment unit within the Ball Mill Building



Photo File Name: DSCF2795.JPG

Date of Photo: 6/25/2014

Time of Photo: 11:56AM

Photographer: John Penland

Description: North Baghouse pad

Appendix 3
EPA Final Analytical Report for Sloan Valve



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name -----Sloan Valve
Sample Collection Date(s)-- 06/25/14
Contact----- John Penland (6EN-HE)
Report Date----- 08/07/14
Project #----- 14RCRA112
Work Order(s)----- 1406022

Analyses included in this report:

Metals ICP (RCRA 8) 6010B
Solids, Dry Weight

Metals TCLP ICP 1311/6010B
TCLP 1311 Metals Prep

Report Narrative

Metals ICP:

(Batch B4G0204):

MS1/MSD1: Sample results for lead exceed the spike added concentration by a factor of four and the spike recovery cannot be reliably calculated.

(BatchB4G0205):

MS1/MSD1: Spike recoveries for arsenic, silver, selenium, and cadmium are outside acceptance limits; the source results are qualified and are estimates.

Sample results for lead exceed the spike added concentration by a factor of four or more and the spike recovery cannot be reliably calculated.

MS2/MSD2: Sample results for lead exceed the spike added concentration by a factor of four or more and the spike recovery cannot be reliably calculated. The RPD for lead exceeds the acceptance criteria.

MS2/MSD2: The spike recoveries for arsenic, silver, and cadmium are outside acceptance limits;

Report Narrative (cont'd)

the source results are qualified and are estimates. The RPD for silver exceeds the acceptance criteria.

TCLP Metals:

(Batch B4G2402):

BS1: All analytes in this control sample are within the acceptable range.

MS2/MSD1: Lead results from sample source are more than four times the spike amount, therefore the spike recovery cannot be reliably calculated.

MSD2: Silver recovery is outside the acceptance limits; the source result is qualified and is an estimate. RPD is greater than the acceptance limit (20%).

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Deputy Branch Chief

Marvelyn Humphrey
Acting Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Sloan Valve

Project Number: 14RCRA112

Data Management Coordinator: Christy Warren

_____/_____/_____
Data Management Coordinator Signature

_____/_____/_____
Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____/_____/_____
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
S01	1406022-01	Solid	6/25/14 11:58	06/26/14 09:30
S02	1406022-02	Solid	6/25/14 12:16	06/26/14 09:30
S03	1406022-03	Solid	6/25/14 12:30	06/26/14 09:30
S04	1406022-04	Solid	6/25/14 11:25	06/26/14 09:30
S05	1406022-05	Solid	6/25/14 11:32	06/26/14 09:30
S06	1406022-06	Solid	6/25/14 11:32	06/26/14 09:30
S07	1406022-07	Solid	6/25/14 9:45	06/26/14 09:30
S08	1406022-08	Solid	6/25/14 9:50	06/26/14 09:30
S09	1406022-09	Solid	6/25/14 9:55	06/26/14 09:30
S10	1406022-10	Solid	6/25/14 9:55	06/26/14 09:30
S11	1406022-11	Solid	6/25/14 10:00	06/26/14 09:30
S12	1406022-12	Solid	6/25/14 10:05	06/26/14 09:30
S13	1406022-13	Solid	6/25/14 10:07	06/26/14 09:30
S14	1406022-14	Solid	6/25/14 10:10	06/26/14 09:30
S15	1406022-15	Solid	6/25/14 10:15	06/26/14 09:30
S16	1406022-16	Solid	6/25/14 10:18	06/26/14 09:30
S17	1406022-17	Solid	6/25/14 10:20	06/26/14 09:30
S18	1406022-18	Solid	6/25/14 10:20	06/26/14 09:30
S19	1406022-19	Liquid	6/25/14 10:40	06/26/14 09:30
S20	1406022-20	Solid	6/25/14 11:28	06/26/14 09:30



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010 - ICP

Lab ID: 1406022-01

Station ID: S01

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.515g

Sample Qualifiers:

%Solids: 89.14

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U	UJ	109	10	07/01/14	07/09/14
Barium (7440-39-3)	24.2		10.9	"	"	"
Cadmium (7440-43-9)	U	UJ	5.4	"	"	"
Chromium (7440-47-3)	18.3		10.9	"	"	"
Lead (7439-92-1)	3,720		32.7	"	"	"
Selenium (7782-49-2)	U	UJ	109	"	"	"
Silver (7440-22-4)	11.1	J	10.9	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-01

Station ID: S01

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Sample Qualifiers:

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	0.35		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	72.8		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010 - ICP

Lab ID: 1406022-02

Station ID: S02

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.524g

%Solids: 100.04

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		95.4	10	07/01/14	07/09/14
Barium (7440-39-3)	U		9.5	"	"	"
Cadmium (7440-43-9)	U		4.8	"	"	"
Chromium (7440-47-3)	U		9.5	"	"	"
Lead (7439-92-1)	1,840		28.6	"	"	"
Selenium (7782-49-2)	U		95.4	"	"	"
Silver (7440-22-4)	U		9.5	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-02

Station ID: S02

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		2.00	20	07/24/14	07/28/14
Barium (7440-39-3)	U		0.20	"	"	"
Cadmium (7440-43-9)	U		0.10	"	"	"
Chromium (7440-47-3)	U		0.20	"	"	"
Lead (7439-92-1)	69.8		0.60	"	"	"
Selenium (7782-49-2)	U		2.00	"	"	"
Silver (7440-22-4)	U		0.20	"	"	"

spc



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010 - ICP

Lab ID: 1406022-03

Station ID: S03

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.51g

%Solids: 100.00

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		196	20	07/01/14	07/09/14
Barium (7440-39-3)	U		19.6	"	"	"
Cadmium (7440-43-9)	U		9.8	"	"	"
Chromium (7440-47-3)	27.8		19.6	"	"	"
Lead (7439-92-1)	21,800		58.8	"	"	"
Selenium (7782-49-2)	U		196	"	"	"
Silver (7440-22-4)	37.1		19.6	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-03

Station ID: S03

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		2.00	20	07/24/14	07/28/14
Barium (7440-39-3)	0.34		0.20	"	"	"
Cadmium (7440-43-9)	U		0.10	"	"	"
Chromium (7440-47-3)	U		0.20	"	"	"
Lead (7439-92-1)	U		0.60	"	"	"
Selenium (7782-49-2)	U		2.00	"	"	"
Silver (7440-22-4)	U		0.20	"	"	"

spc



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010 - ICP

Lab ID: 1406022-04

Station ID: S04

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.529g

%Solids: 98.28

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		96.2	10	07/01/14	07/09/14
Barium (7440-39-3)	20.5		9.6	"	"	"
Cadmium (7440-43-9)	U		4.8	"	"	"
Chromium (7440-47-3)	U		9.6	"	"	"
Lead (7439-92-1)	1,870		28.9	"	"	"
Selenium (7782-49-2)	U		96.2	"	"	"
Silver (7440-22-4)	U		9.6	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-04

Station ID: S04

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	0.32		0.10	"	"	"
Cadmium (7440-43-9)	0.09		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	42.7		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-05

Station ID: S05

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.52g

%Solids: 99.06

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		97.1	10	07/01/14	07/09/14
Barium (7440-39-3)	19.8		9.7	"	"	"
Cadmium (7440-43-9)	U		4.9	"	"	"
Chromium (7440-47-3)	U		9.7	"	"	"
Lead (7439-92-1)	2,250		29.1	"	"	"
Selenium (7782-49-2)	U		97.1	"	"	"
Silver (7440-22-4)	U		9.7	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-05

Station ID: S05

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	0.07		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	1.14		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-06

Station ID: S06

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.511g

%Solids: 98.82

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		99.0	10	07/01/14	07/09/14
Barium (7440-39-3)	35.2		9.9	"	"	"
Cadmium (7440-43-9)	6.0		5.0	"	"	"
Chromium (7440-47-3)	U		9.9	"	"	"
Lead (7439-92-1)	2,000		29.7	"	"	"
Selenium (7782-49-2)	U		99.0	"	"	"
Silver (7440-22-4)	U		9.9	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-06

Station ID: S06

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	0.11		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	1.53		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-07

Station ID: S07

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.516g

%Solids: 89.14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		109	10	07/01/14	07/09/14
Barium (7440-39-3)	19.7		10.9	"	"	"
Cadmium (7440-43-9)	U		5.4	"	"	"
Chromium (7440-47-3)	U		10.9	"	"	"
Lead (7439-92-1)	2,080		32.6	"	"	"
Selenium (7782-49-2)	U		109	"	"	"
Silver (7440-22-4)	U		10.9	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-07

Station ID: S07

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	0.82		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-08

Station ID: S08

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.542g

%Solids: 87.08

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U	UJ	106	10	07/01/14	07/09/14
Barium (7440-39-3)	19.0		10.6	"	"	"
Cadmium (7440-43-9)	U	UJ	5.3	"	"	"
Chromium (7440-47-3)	U		10.6	"	"	"
Lead (7439-92-1)	2,660		31.8	"	"	"
Selenium (7782-49-2)	U		106	"	"	"
Silver (7440-22-4)	U	UJ	10.6	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-08

Station ID: S08

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	0.79		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-09

Station ID: S09

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.535g

%Solids: 88.34

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		106	10	07/01/14	07/09/14
Barium (7440-39-3)	19.9		10.6	"	"	"
Cadmium (7440-43-9)	U		5.3	"	"	"
Chromium (7440-47-3)	13.8		10.6	"	"	"
Lead (7439-92-1)	3,850		31.7	"	"	"
Selenium (7782-49-2)	U		106	"	"	"
Silver (7440-22-4)	U		10.6	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-09

Station ID: S09

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	2.26		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-10

Station ID: S10

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.636g

%Solids: 87.99

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		89.3	10	07/01/14	07/09/14
Barium (7440-39-3)	19.2		8.9	"	"	"
Cadmium (7440-43-9)	U		4.5	"	"	"
Chromium (7440-47-3)	12.5		8.9	"	"	"
Lead (7439-92-1)	4,870		26.8	"	"	"
Selenium (7782-49-2)	U		89.3	"	"	"
Silver (7440-22-4)	U		8.9	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-10

Station ID: S10

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/22/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	1.77		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-11

Station ID: S11

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.673g

%Solids: 75.93

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		97.9	10	07/01/14	07/09/14
Barium (7440-39-3)	19.3		9.8	"	"	"
Cadmium (7440-43-9)	U		4.9	"	"	"
Chromium (7440-47-3)	10.3		9.8	"	"	"
Lead (7439-92-1)	3,740		29.4	"	"	"
Selenium (7782-49-2)	U		97.9	"	"	"
Silver (7440-22-4)	U		9.8	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-11

Station ID: S11

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	1.22		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-12

Station ID: S12

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.542g

%Solids: 87.44

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		105	10	07/01/14	07/09/14
Barium (7440-39-3)	18.7		10.5	"	"	"
Cadmium (7440-43-9)	U		5.3	"	"	"
Chromium (7440-47-3)	U		10.5	"	"	"
Lead (7439-92-1)	4,700		31.6	"	"	"
Selenium (7782-49-2)	U		105	"	"	"
Silver (7440-22-4)	U		10.5	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-12

Station ID: S12

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	0.05		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	5.50		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-13

Station ID: S13

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.52g

%Solids: 89.98

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		107	10	07/01/14	07/09/14
Barium (7440-39-3)	24.2		10.7	"	"	"
Cadmium (7440-43-9)	U		5.3	"	"	"
Chromium (7440-47-3)	11.7		10.7	"	"	"
Lead (7439-92-1)	3,790		32.1	"	"	"
Selenium (7782-49-2)	U		107	"	"	"
Silver (7440-22-4)	U		10.7	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-13

Station ID: S13

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	0.18		0.10	"	"	"
Cadmium (7440-43-9)	0.07		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	6.50		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-14

Station ID: S14

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.55g

%Solids: 94.51

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		96.2	10	07/01/14	07/09/14
Barium (7440-39-3)	19.0		9.6	"	"	"
Cadmium (7440-43-9)	U		4.8	"	"	"
Chromium (7440-47-3)	15.2		9.6	"	"	"
Lead (7439-92-1)	3,550		28.9	"	"	"
Selenium (7782-49-2)	U		96.2	"	"	"
Silver (7440-22-4)	U		9.6	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-14

Station ID: S14

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	0.10		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	4.99		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-15

Station ID: S15

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.577g

%Solids: 92.21

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		94.0	10	07/01/14	07/09/14
Barium (7440-39-3)	16.9		9.4	"	"	"
Cadmium (7440-43-9)	U		4.7	"	"	"
Chromium (7440-47-3)	10.9		9.4	"	"	"
Lead (7439-92-1)	3,750		28.2	"	"	"
Selenium (7782-49-2)	U		94.0	"	"	"
Silver (7440-22-4)	9.4		9.4	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-15

Station ID: S15

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	2.82		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-16

Station ID: S16

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.514g

%Solids: 81.76

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		119	10	07/01/14	07/09/14
Barium (7440-39-3)	17.4		11.9	"	"	"
Cadmium (7440-43-9)	U		5.9	"	"	"
Chromium (7440-47-3)	47.5		11.9	"	"	"
Lead (7439-92-1)	4,830		35.7	"	"	"
Selenium (7782-49-2)	U		119	"	"	"
Silver (7440-22-4)	U		11.9	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-16

Station ID: S16

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	0.11		0.10	"	"	"
Cadmium (7440-43-9)	0.07		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	5.85		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Metals by EPA Method 6010 - ICP

Lab ID: 1406022-17

Station ID: S17

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.521g

%Solids: 92.12

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		104	10	07/01/14	07/09/14
Barium (7440-39-3)	18.3		10.4	"	"	"
Cadmium (7440-43-9)	U		5.2	"	"	"
Chromium (7440-47-3)	27.4		10.4	"	"	"
Lead (7439-92-1)	5,900		31.3	"	"	"
Selenium (7782-49-2)	U		104	"	"	"
Silver (7440-22-4)	13.1		10.4	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-17

Station ID: S17

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	0.06		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	1.53		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-18

Station ID: S18

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.63g

%Solids: 92.57

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		85.7	10	07/01/14	07/09/14
Barium (7440-39-3)	16.3		8.6	"	"	"
Cadmium (7440-43-9)	U		4.3	"	"	"
Chromium (7440-47-3)	16.5		8.6	"	"	"
Lead (7439-92-1)	9,140		25.7	"	"	"
Selenium (7782-49-2)	U		85.7	"	"	"
Silver (7440-22-4)	10.8		8.6	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-18

Station ID: S18

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	0.06		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	1.74		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

spc



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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-19

Station ID: S19

Batch: B4G0204

Date Collected: 06/25/14

Sample Type: Liquid

Sample Vol: 50ml

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		100	1	07/01/14	07/09/14
Barium (7440-39-3)	113		10.0	"	"	"
Cadmium (7440-43-9)	6.4		5.0	"	"	"
Chromium (7440-47-3)	16.8		10.0	"	"	"
Lead (7439-92-1)	7,640		30.0	"	"	"
Selenium (7782-49-2)	U		100	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-19

Station ID: S19

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Liquid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	U		0.10	"	"	"
Cadmium (7440-43-9)	U		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	U		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U		0.10	"	"	"

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Metals by EPA Method 6010 - ICP

Lab ID: 1406022-20

Station ID: S20

Batch: B4G0205

Date Collected: 06/25/14

Sample Type: Solid

Sample Wt: 0.517g

%Solids: 99.21

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		97.5	10	07/01/14	07/09/14
Barium (7440-39-3)	17.7		9.7	"	"	"
Cadmium (7440-43-9)	U		4.9	"	"	"
Chromium (7440-47-3)	U		9.7	"	"	"
Lead (7439-92-1)	1,380		29.2	"	"	"
Selenium (7782-49-2)	U		97.5	"	"	"
Silver (7440-22-4)	U		9.7	"	"	"

spc

TCLP Metals by EPA Method 1311/6010-ICP

Lab ID: 1406022-20

Station ID: S20

Batch: B4G2402

Date Collected: 06/25/14

Sample Type: Solid

Sample Vol: 50ml

Batch Matrix: Liquid

TCLP Prepared: 7/23/14

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Arsenic (7440-38-2)	U		1.00	10	07/24/14	07/28/14
Barium (7440-39-3)	0.49		0.10	"	"	"
Cadmium (7440-43-9)	0.09		0.05	"	"	"
Chromium (7440-47-3)	U		0.10	"	"	"
Lead (7439-92-1)	35.1		0.30	"	"	"
Selenium (7782-49-2)	U		1.00	"	"	"
Silver (7440-22-4)	U	UJ	0.10	"	"	"

spc



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Percent Solids - Quality Control

Duplicate (B4G0103-DUP1)

Source: 1406022-01

Prepared: 7/1/2014 Analyzed: 7/2/2014

Targets

ANALYTE	Result %	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	RPD RPD Limit
% Solids	90.79			89.14	1.83 20

Duplicate (B4G0103-DUP2)

Source: 1406022-20

Prepared: 7/1/2014 Analyzed: 7/2/2014

Targets

ANALYTE	Result %	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	RPD RPD Limit
% Solids	99.20			99.21	0.02 20



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Metals by EPA Method 6010 - ICP - Quality Control

Batch: B4G0204

Sample Type: Liquid

Blank (B4G0204-BLK1)

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result µg/L	Analyte Reporting Qualifiers Limit
Arsenic	U	100
Barium	U	10.0
Cadmium	U	5.0
Chromium	U	10.0
Lead	U	30.0
Selenium	U	100
Silver	U	10.0

LCS (B4G0204-BS1)

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result µg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Arsenic	2,150	100	2,000	108 75-125
Barium	2,060	10.0	2,000	103 75-125
Cadmium	53.6	5.0	50.0	107 75-125
Chromium	409	10.0	400	102 75-125
Lead	400	30.0	400	100 75-125
Selenium	1,020	100	1,000	102 75-125
Silver	50.0	10.0	50.0	100 75-125

Matrix Spike (B4G0204-MS1)

Source: 1406022-19

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result µg/L	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC Limits
Arsenic	2,230	100	2,000	6.3	111 75-125
Barium	2,160	10.0	2,000	113	102 75-125



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Metals by EPA Method 6010 - ICP - Quality Control

Batch: B4G0204

Sample Type: Liquid

Matrix Spike (B4G0204-MS1)

Source: 1406022-19

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Cadmium	57.7		5.0	50.0	6.4	103	75-125
Chromium	424		10.0	400	16.8	102	75-125
Lead	7,420		30.0	400	7,640	NR #	75-125
Selenium	1,030		100	1,000	9.5	102	75-125
Silver	49.2		10.0	50.0	6.8	84.8	75-125

Matrix Spike Dup (B4G0204-MSD1)

Source: 1406022-19

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Arsenic	2,220		100	2,000	6.3	111	75-125	0.39	20
Barium	2,160		10.0	2,000	113	102	75-125	0.32	20
Cadmium	57.5		5.0	50.0	6.4	102	75-125	0.49	20
Chromium	424		10.0	400	16.8	102	75-125	0.02	20
Lead	7,490		30.0	400	7,640	NR #	75-125	0.95	20
Selenium	1,030		100	1,000	9.5	102	75-125	0.49	20
Silver	53.2		10.0	50.0	6.8	92.9	75-125	7.85	20



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Metals by EPA Method 6010 - ICP - Quality Control

Batch: B4G0205

Sample Type: Solid

Blank (B4G0205-BLK1)

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result mg/Kg wet	Analyte Reporting Qualifiers Limit
Arsenic	U	10.0
Barium	U	1.0
Cadmium	U	0.5
Chromium	U	1.0
Lead	U	3.0
Selenium	U	10.0
Silver	U	1.0

LCS (B4G0205-BS1)

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result mg/Kg wet	Analyte Reporting Qualifiers Limit	Spike Level	%REC Limits
Arsenic	215	10.0	200	107 75-125
Barium	206	1.0	200	103 75-125
Cadmium	5.3	0.5	5.00	106 75-125
Chromium	40.8	1.0	40.0	102 75-125
Lead	39.9	3.0	40.0	99.7 75-125
Selenium	101	10.0	100	101 75-125
Silver	5.2	1.0	5.00	103 75-125

Matrix Spike (B4G0205-MS1)

Source: 1406022-01

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result mg/Kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC Limits
Arsenic	285	112	223	4.1 126 #	75-125
Barium	273	11.2	223	24.2 112	75-125



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Metals by EPA Method 6010 - ICP - Quality Control

Batch: B4G0205

Sample Type: Solid

Matrix Spike (B4G0205-MS1)

Source: 1406022-01

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Cadmium	8.5		5.6	5.58	1.5	125	75-125
Chromium	68.2		11.2	44.6	18.3	112	75-125
Lead	3,820		33.5	44.6	3,720	215 #	75-125
Selenium	136		112	112	2.2	120	75-125
Silver	16.2		11.2	5.58	11.1	91.6	75-125

Matrix Spike (B4G0205-MS2)

Source: 1406022-08

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Arsenic	280		108	216	2.3	128 #	75-125
Barium	264		10.8	216	19.0	113	75-125
Cadmium	9.7		5.4	5.41	2.5	133 #	75-125
Chromium	61.1		10.8	43.3	7.9	123	75-125
Lead	3,680		32.4	43.3	2,660	NR #	75-125
Selenium	127		108	108	1.4	116	75-125
Silver	15.9		10.8	5.41	8.6	133 #	75-125

Matrix Spike Dup (B4G0205-MSD1)

Source: 1406022-01

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Arsenic	292		110	220	4.1	131 #	75-125	2.68	20
Barium	281		11.0	220	24.2	116	75-125	2.86	20
Cadmium	8.8		5.5	5.51	1.5	133 #	75-125	3.53	20
Chromium	73.2		11.0	44.1	18.3	125	75-125	7.11	20



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Metals by EPA Method 6010 - ICP - Quality Control

Batch: B4G0205

Sample Type: Solid

Matrix Spike Dup (B4G0205-MSD1)

Source: 1406022-01

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Limit
Lead	4,020	33.1	44.1	3,720	672 #	75-125	5.11	20
Selenium	143	110	110	2.2	128 #	75-125	5.04	20
Silver	19.3	11.0	5.51	11.1	149 #	75-125	17.5	20

Matrix Spike Dup (B4G0205-MSD2)

Source: 1406022-08

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result mg/Kg dry	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Limit
Arsenic	275	112	224	2.3	122	75-125	1.75	20
Barium	267	11.2	224	19.0	111	75-125	0.99	20
Cadmium	9.3	5.6	5.61	2.5	122	75-125	3.53	20
Chromium	61.9	11.2	44.9	7.9	121	75-125	1.41	20
Lead	2,820	33.6	44.9	2,660	363 #	75-125	26.5 #	20
Selenium	129	112	112	1.4	113	75-125	1.62	20
Silver	12.5	11.2	5.61	8.6	68.0#	75-125	24.0 #	20

Reference (B4G0205-SRM1)

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets

ANALYTE	Result mg/Kg wet	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Limit
Arsenic	221	9.8	253		87.4	60.8-139		
Barium	1.4	1.0	1.60		85.2	62.5-137.5		
Cadmium	10.4	0.5	10.9		95.3	70.6-128.4		
Chromium	26.8	1.0	27.1		99.0	68.3-131.7		
Lead	47.3	2.9	56.9		83.2	72.7-127.2		
Selenium	9.4	9.8	10.0		94.3	41-159		



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Metals by EPA Method 6010 - ICP - Quality Control

Batch: B4G0205

Sample Type: Solid

Reference (B4G0205-SRM1)

Prepared: 7/1/2014 Analyzed: 7/9/2014

Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Silver	4.5		1.0	5.90	77.1	45.8-154.2	



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TCLP Metals by EPA Method 1311/6010-ICP - Quality Control

Batch: B4G2402

Sample Type: Liquid

Blank (B4G2402-BLK1)

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Arsenic	U	0.10
Barium	U	0.01
Cadmium	U	0.005
Chromium	U	0.01
Lead	U	0.03
Selenium	U	0.10
Silver	U	0.01

Blank (B4G2402-BLK2)

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Arsenic	U	1.00
Barium	U	0.10
Cadmium	U	0.05
Chromium	U	0.10
Lead	U	0.30
Selenium	U	1.00
Silver	U	0.10

Blank (B4G2402-BLK3)

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Arsenic	U	1.00
Barium	U	0.10



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TCLP Metals by EPA Method 1311/6010-ICP - Quality Control

Batch: B4G2402

Sample Type: Liquid

Blank (B4G2402-BLK3)

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets (Continued)

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit
Cadmium	U	0.05
Chromium	U	0.10
Lead	U	0.30
Selenium	U	1.00
Silver	U	0.01

LCS (B4G2402-BS1)

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits
Arsenic	2.11	0.10	2.00	106 75-125
Barium	2.07	0.01	2.00	103 75-125
Cadmium	0.05	0.005	0.0500	105 75-125
Chromium	0.41	0.01	0.400	102 75-125
Lead	0.40	0.03	0.400	99.8 75-125
Selenium	0.99	0.10	1.00	99.0 75-125
Silver	0.05	0.01	0.0500	104 75-125

Matrix Spike (B4G2402-MS1)

Source: 1406022-01

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Reporting Qualifiers Limit	Spike Level	Source Result	%REC %REC Limits
Arsenic	4.65	1.00	4.00	0.02	116 75-125
Barium	4.50	0.10	4.00	0.35	104 75-125
Cadmium	0.15	0.05	0.100	0.04	116 75-125
Chromium	0.88	0.10	0.800		110 75-125



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TCLP Metals by EPA Method 1311/6010-ICP - Quality Control

Batch: B4G2402

Sample Type: Liquid

Matrix Spike (B4G2402-MS1)

Source: 1406022-01

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets (Continued)

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Lead	73.6		0.30	0.800	72.8	101	75-125
Selenium	2.22		1.00	2.00		111	75-125
Silver	0.10		0.10	0.100		95.1	75-125

Matrix Spike (B4G2402-MS2)

Source: 1406022-20

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits
Arsenic	4.46		1.00	4.00	0.03	111	75-125
Barium	4.68		0.10	4.00	0.49	105	75-125
Cadmium	0.19		0.05	0.100	0.09	108	75-125
Chromium	0.84		0.10	0.800		105	75-125
Lead	36.9		0.30	0.800	35.1	222 #	75-125
Selenium	2.06		1.00	2.00		103	75-125
Silver	0.11		0.10	0.100		107	75-125

Matrix Spike Dup (B4G2402-MSD1)

Source: 1406022-01

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit
Arsenic	4.60		1.00	4.00	0.02	114	75-125	1.18	20
Barium	4.46		0.10	4.00	0.35	103	75-125	0.91	20
Cadmium	0.15		0.05	0.100	0.04	113	75-125	1.84	20
Chromium	0.87		0.10	0.800		109	75-125	0.74	20
Lead	72.3		0.30	0.800	72.8	NR #	75-125	1.78	20
Selenium	2.19		1.00	2.00		110	75-125	1.39	20



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TCLP Metals by EPA Method 1311/6010-ICP - Quality Control

Batch: B4G2402

Sample Type: Liquid

Matrix Spike Dup (B4G2402-MSD1)

Source: 1406022-01

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets (Continued)

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Silver	0.10		0.10	0.100		97.6 75-125	2.59	20

Matrix Spike Dup (B4G2402-MSD2)

Source: 1406022-20

Prepared: 7/24/2014 Analyzed: 7/28/2014

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Arsenic	4.47		1.00	4.00	0.03	111 75-125	0.19	20
Barium	4.65		0.10	4.00	0.49	104 75-125	0.56	20
Cadmium	0.19		0.05	0.100	0.09	107 75-125	0.82	20
Chromium	0.84		0.10	0.800		105 75-125	0.19	20
Lead	36.0		0.30	0.800	35.1	110 75-125	2.46	20
Selenium	2.10		1.00	2.00		105 75-125	1.55	20
Silver	0.07		0.10	0.100		68.2# 75-125	44.4 #	20



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Notes and Definitions

UJ	The analyte was not detected at or above the reported value. The reported value is an estimate.
J	The identification of the analyte is acceptable; the reported value is an estimate.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
PCB	Polychlorinatedbiphenyl
RL	Reporting Limit
RT	Retention Time



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TCLP Toxicity Characteristic Leaching Procedure

TCMX Tetrachloro-meta-xylene

U Undetected

VOA Volatile Organic Analysis

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.