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 ----------	Lane Plating
Sample Collection Date(s)--	07/18/16 - 07/21/16
Contact----------	Bret Kendrick (6SF-RL)
Report Date----------	09/12/16
Project #----------	16SF093
Work Order(s)----------	1607003 1607007 1607008 1607010

Analyses included in this report:

Metals ICP CLP
Metals ICP/MS CLP
Metals Mercury CLP (E)

Report Narrative

Metals ICP-MS:

Batch B6G2513:

BLK1: Blank results for lead exceed the RL; the source results for samples 1607003-01,-02, -03, -05, and -06 are qualified and may be blank affected.

Batch B6G2611:

BLK1/BLK2: Blank results for lead exceed the RL; the source results for samples 1607007-06, -07, and -08 are qualified and may be blank affected.

MS1/MSD1 (Source Sample 1607003-01): Antimony spike recovery is outside the acceptance limits; the source result is qualified and is an estimate.

MS2 (Sample 1607007-02): Antimony and lead spike recoveries are outside the acceptance limits; the source results are qualified and are an estimate.

MS3/MSD3 (Sample 16007008-07): Antimony and selenium recoveries are outside the acceptance limits; the source results are qualified and are estimates. Lead spike recovery is

9923517

outside the acceptance limits. The source results are four or more time the spike added, therefore cannot be reliably calculated.

The RPD for antimony is outside acceptance limits; likely due to non-homogenous samples.

Metals ICP :

Batch B6G2610:

MS1/MSD1 (Source Sample 1607003-01): Aluminum and iron spike recoveries are outside the acceptance limits; however, sample concentrations exceeded spike added concentrations by a factor of four or more and the spike recoveries cannot be reliably calculated. Calcium and manganese spike recoveries are outside control limits; the source results are qualified and are estimates. The RPD for manganese is outside acceptance limits, likely due to non-homogenous samples.

MS2/MSD2 (Source Sample 1607007-02): Aluminum, calcium, iron, and manganese spike recoveries are outside the acceptance limits; however, sample concentrations exceed the spike added concentrations by a factor of four or more and the spike recoveries cannot be reliably calculated.

MS3/MSD3 (Source Sample 1607008-07): Aluminum, cadmium, chromium, copper, iron, manganese, nickel, and zinc spike recoveries are outside the acceptance limits; however, the sample concentrations exceed the spike added concentrations by a factor of four or more and the spike recoveries cannot be reliably calculated.

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.

The reporting limit (sometimes referred to as a quantitation limit) is defined as the lowest concentration at which an analyte can be reliably measured and reported without qualification. Reporting limits are adjusted for sample size, dilution, and matrix interference. Concentrations below the reporting limit are reported as non-detects or <RL.

Report Approvals:

RICHARD MCMILLIN Digitally signed by RICHARD MCMILLIN DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff, cn=RICHARD MCMILLIN, dnQualifier=0000008516 Date: 2016.09.12 16:58:32 -05'00'

Richard McMillin
Region 6 Laboratory Technical Manager

David W. McQuiddy Digitally signed by David W. McQuiddy Date: 2016.09.13 06:17:23 -05'00'

David W. McQuiddy
Region 6 Laboratory Branch Chief

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Region 6 Environmental Services Branch Laboratory

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Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Lane Plating Project Number: 16SF093

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:

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
SE-11	1607003-01	Solid	7/18/16 16:05	07/19/16 09:15
SE-12	1607003-02	Solid	7/18/16 15:47	07/19/16 09:15
SE-13	1607003-03	Solid	7/18/16 15:20	07/19/16 09:15
SW-11	1607003-04	Liquid	7/18/16 16:03	07/19/16 09:15
SW-12	1607003-05	Liquid	7/18/16 15:45	07/19/16 09:15
SW-13	1607003-06	Liquid	7/18/16 15:15	07/19/16 09:15
SE-05	1607007-01	Solid	7/19/16 12:45	07/20/16 09:30
SE-06	1607007-02	Solid	7/19/16 15:10	07/20/16 09:30
SE-07	1607007-03	Solid	7/19/16 14:55	07/20/16 09:30
SE-10	1607007-04	Solid	7/19/16 9:55	07/20/16 09:30
SO-06	1607007-05	Solid	7/19/16 12:55	07/20/16 09:30
SW-05	1607007-06	Liquid	7/19/16 15:20	07/20/16 09:30
SW-06	1607007-07	Liquid	7/19/16 15:05	07/20/16 09:30
SW-07	1607007-08	Liquid	7/19/16 14:50	07/20/16 09:30
SE-01	1607008-01	Solid	7/20/16 12:20	07/21/16 09:00
SE-02	1607008-02	Solid	7/20/16 14:40	07/21/16 09:00
SE-03	1607008-03	Solid	7/20/16 9:45	07/21/16 09:00
SE-04	1607008-04	Solid	7/20/16 9:30	07/21/16 09:00
SO-01	1607008-05	Solid	7/20/16 14:15	07/21/16 09:00
SO-02	1607008-06	Solid	7/20/16 14:30	07/21/16 09:00
SO-03	1607008-07	Solid	7/20/16 10:35	07/21/16 09:00
SO-04	1607008-08	Solid	7/20/16 10:55	07/21/16 09:00
SO-05	1607008-09	Solid	7/20/16 11:10	07/21/16 09:00
SO-07	1607008-10	Solid	7/20/16 9:15	07/21/16 09:00
SO-08	1607008-11	Solid	7/20/16 10:40	07/21/16 09:00
SW-01	1607008-12	Liquid	7/20/16 12:15	07/21/16 09:00
SW-03	1607008-13	Liquid	7/20/16 9:40	07/21/16 09:00
SW-04	1607008-14	Liquid	7/20/16 9:24	07/21/16 09:00
SE-08	1607010-01	Solid	7/21/16 11:00	07/22/16 09:20
SE-09	1607010-02	Solid	7/21/16 10:40	07/22/16 09:20
SE-14	1607010-03	Solid	7/21/16 11:05	07/22/16 09:20
SE-15	1607010-04	Solid	7/21/16 10:45	07/22/16 09:20
SW-08	1607010-05	Liquid	7/21/16 11:00	07/22/16 09:20
SW-09	1607010-06	Liquid	7/21/16 10:30	07/22/16 09:20
SW-14	1607010-07	Liquid	7/21/16 11:05	07/22/16 09:20
SW-15	1607010-08	Liquid	7/21/16 10:35	07/22/16 09:20

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QC SUMMARY REPORT

Metals ICP CLP

B6G2512

Liquid

Samples: 13 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2512-BLK1	
B6G2512-BS1	
B6G2512-MS1	1607003-04
B6G2512-MS2	1607007-07
B6G2512-MSD1	1607003-04
B6G2512-MSD2	1607007-07

B6G2610

Solid

Samples: 23 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2610-BLK1	
B6G2610-BLK2	
B6G2610-BS1	
B6G2610-BS2	
B6G2610-MS1	1607003-01
B6G2610-MS2	1607007-02
B6G2610-MS3	1607008-07
B6G2610-MSD1	1607003-01
B6G2610-MSD2	1607007-02
B6G2610-MSD3	1607008-07
B6G2610-SRM1	

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Metals ICP/MS CLP

B6G2513

Liquid

Samples: 13 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2513-BLK1	
B6G2513-BS1	
B6G2513-MS1	1607003-04
B6G2513-MS2	1607007-07
B6G2513-MSD1	1607003-04
B6G2513-MSD2	1607007-07

B6G2611

Solid

Samples: 23 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2611-BLK1	
B6G2611-BLK2	
B6G2611-BS1	
B6G2611-BS2	
B6G2611-MS1	1607003-01
B6G2611-MS2	1607007-02
B6G2611-MS3	1607008-07
B6G2611-MSD1	1607003-01
B6G2611-MSD2	1607007-02
B6G2611-MSD3	1607008-07
B6G2611-SRM1	

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Metals Mercury CLP (E)

B6G2705

Solid

Samples: 8 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2705-BLK1	
B6G2705-BLK2	
B6G2705-BLK3	
B6G2705-BS1	
B6G2705-MS1	1607003-01
B6G2705-MSD1	1607003-01
B6G2705-SRM1	

B6G2706

Liquid

Samples: 13 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2706-BLK1	
B6G2706-BLK2	
B6G2706-BLK3	
B6G2706-BLK4	
B6G2706-BS1	
B6G2706-MS1	1607003-04
B6G2706-MS2	1607007-07
B6G2706-MSD1	1607003-04
B6G2706-MSD2	1607007-07

B6H0109

Solid

Samples: 15 **ReExts: 0**

LAB NUMBER	SOURCE
B6H0109-BLK1	
B6H0109-BLK2	
B6H0109-BLK3	
B6H0109-BLK4	
B6H0109-BLK5	
B6H0109-BS1	
B6H0109-MS1	1607008-01
B6H0109-MS2	1607008-06
B6H0109-MSD1	1607008-01
B6H0109-MSD2	1607008-06
B6H0109-SRM1	

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Solids, Dry Weight

B6G2102

Solid

Samples: 19 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2102-DUP1	1607003-01

B6G2516

Solid

Samples: 4 **ReExts: 0**

LAB NUMBER	SOURCE
B6G2516-DUP1	1607010-01

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607003-01 **Station ID: SE-11**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.585g
%Solids: 78.05

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**2,850**		11.0	1	07/26/16	07/28/16
Barium (7440-39-3)	**47.4**		1.1	"	"	"
Beryllium (7440-41-7)	**0.6**		0.5	"	"	"
Cadmium (7440-43-9)	U		0.5	"	"	"
Calcium (7440-70-2)	**41,900**	**J**	16.4	"	"	"
Chromium (7440-47-3)	**3.5**		1.1	"	"	"
Cobalt (7440-48-4)	**2.4**		2.2	"	"	"
Copper (7440-50-8)	**6.6**		2.2	"	"	"
Iron (7439-89-6)	**3,040**		2.7	"	"	"
Magnesium (7439-95-4)	**495**		16.4	"	"	"
Manganese (7439-96-5)	**68.1**	**J**	0.5	"	"	"
Nickel (7440-02-2)	**5.9**		2.2	"	"	"
Potassium (7440-09-7)	**383**		110	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	**88.3**		54.8	"	"	"
Vanadium (7440-62-2)	**13.0**		2.2	"	"	"
Zinc (7440-66-6)	**15.2**		2.2	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607003-01 **Station ID: SE-11**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.585g
%Solids: 78.05

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	UJ	0.5	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**0.5**		0.5	"	"	"
Lead (7439-92-1)	**7.3**	**B**	0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607003-01 **Station ID: SE-11**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.182g
%Solids: 78.05

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.056	1	08/01/16	08/02/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607003-02 **Station ID: SE-12**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.6g
%Solids: 77.96

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**4,250**		10.7	1	07/26/16	07/28/16
Barium (7440-39-3)	**46.7**		1.1	"	"	"
Beryllium (7440-41-7)	**0.5**		0.5	"	"	"
Cadmium (7440-43-9)	**0.6**		0.5	"	"	"
Calcium (7440-70-2)	**43,900**		16.0	"	"	"
Chromium (7440-47-3)	**6.5**		1.1	"	"	"
Cobalt (7440-48-4)	**5.6**		2.1	"	"	"
Copper (7440-50-8)	**6.5**		2.1	"	"	"
Iron (7439-89-6)	**9,450**		2.7	"	"	"
Magnesium (7439-95-4)	**1,100**		16.0	"	"	"
Manganese (7439-96-5)	**339**		0.5	"	"	"
Nickel (7440-02-2)	**10.7**		2.1	"	"	"
Potassium (7440-09-7)	**726**		107	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	**117**		53.4	"	"	"
Vanadium (7440-62-2)	**18.8**		2.1	"	"	"
Zinc (7440-66-6)	**20.0**		2.1	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607003-02 **Station ID: SE-12**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.6g
%Solids: 77.96

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**4.2**		0.5	"	"	"
Lead (7439-92-1)	**10.0**	**B**	0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607003-02 **Station ID: SE-12**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.187g
%Solids: 77.96

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.055	1	08/01/16	08/02/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607003-03 **Station ID: SE-13**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.602g
%Solids: 72.43

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**3,270**		11.5	1	07/26/16	07/28/16
Barium (7440-39-3)	**51.6**		1.1	"	"	"
Beryllium (7440-41-7)	U		0.6	"	"	"
Cadmium (7440-43-9)	**0.6**		0.6	"	"	"
Calcium (7440-70-2)	**51,300**		17.2	"	"	"
Chromium (7440-47-3)	**6.8**		1.1	"	"	"
Cobalt (7440-48-4)	**4.4**		2.3	"	"	"
Copper (7440-50-8)	**7.4**		2.3	"	"	"
Iron (7439-89-6)	**7,430**		2.9	"	"	"
Magnesium (7439-95-4)	**1,000**		17.2	"	"	"
Manganese (7439-96-5)	**225**		0.6	"	"	"
Nickel (7440-02-2)	**8.3**		2.3	"	"	"
Potassium (7440-09-7)	**629**		115	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	**71.0**		57.3	"	"	"
Vanadium (7440-62-2)	**13.6**		2.3	"	"	"
Zinc (7440-66-6)	**25.0**		2.3	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607003-03 **Station ID: SE-13**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.602g
%Solids: 72.43

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**3.0**		0.6	"	"	"
Lead (7439-92-1)	**15.6**	**B**	0.6	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607003-03 **Station ID: SE-13**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/18/16
Sample Wt: 0.176g
%Solids: 72.43

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.063	1	08/01/16	08/02/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607003-04 **Station ID: SW-11**

Batch: B6G2512 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**85.7**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**128,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**434**		25.0	"	"	"
Magnesium (7439-95-4)	**8,310**		150	"	"	"
Manganese (7439-96-5)	**257**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**2,510**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**79,000**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607003-04 **Station ID: SW-11**

Batch: B6G2513 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**2.0**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607003-04 **Station ID: SW-11**

Batch: B6G2706 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607003-05 **Station ID: SW-12**

Batch: B6G2512 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**324**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**86.1**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**128,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**439**		25.0	"	"	"
Magnesium (7439-95-4)	**8,240**		150	"	"	"
Manganese (7439-96-5)	**205**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**2,640**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**76,000**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607003-05 **Station ID: SW-12**

Batch: B6G2513 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	**13.9**		4.0	"	"	"
Lead (7439-92-1)	**5.1**	**B**	2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607003-05 **Station ID: SW-12**

Batch: B6G2706 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607003-06 **Station ID: SW-13**

Batch: B6G2512 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**1,560**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**63.4**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**50,800**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**1,870**		25.0	"	"	"
Magnesium (7439-95-4)	**5,140**		150	"	"	"
Manganese (7439-96-5)	**144**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**5,340**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**22,600**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607003-06 **Station ID: SW-13**

Batch: B6G2513 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**2.9**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**3.4**	**B**	2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607003-06 **Station ID: SW-13**

Batch: B6G2706 Date Collected: 07/18/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-01 **Station ID: SE-05**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.917g
%Solids: 55.76

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**6,020**		9.8	1	07/26/16	07/28/16
Barium (7440-39-3)	**85.8**		1.0	"	"	"
Beryllium (7440-41-7)	**0.6**		0.5	"	"	"
Cadmium (7440-43-9)	**0.9**		0.5	"	"	"
Calcium (7440-70-2)	**124,000**		14.7	"	"	"
Chromium (7440-47-3)	**87.3**		1.0	"	"	"
Cobalt (7440-48-4)	**6.3**		2.0	"	"	"
Copper (7440-50-8)	**20.7**		2.0	"	"	"
Iron (7439-89-6)	**8,520**		2.4	"	"	"
Magnesium (7439-95-4)	**1,660**		14.7	"	"	"
Manganese (7439-96-5)	**669**		0.5	"	"	"
Nickel (7440-02-2)	**14.9**		2.0	"	"	"
Potassium (7440-09-7)	**954**		97.8	"	"	"
Silver (7440-22-4)	U		1.0	"	"	"
Sodium (7440-23-5)	**127**		48.9	"	"	"
Vanadium (7440-62-2)	**26.0**		2.0	"	"	"
Zinc (7440-66-6)	**87.6**		2.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-01 **Station ID: SE-05**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.917g
%Solids: 55.76

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**4.8**		0.5	"	"	"
Lead (7439-92-1)	**77.4**		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-01 **Station ID: SE-05**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.195g
%Solids: 55.76

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.271**		0.074	1	08/01/16	08/02/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-02 **Station ID: SE-06**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.848g
%Solids: 65.67

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**7,870**		35.9	4	07/26/16	07/28/16
Barium (7440-39-3)	**120**		3.6	"	"	"
Beryllium (7440-41-7)	**0.7**		0.4	1	"	"
Cadmium (7440-43-9)	**0.7**		0.4	"	"	"
Calcium (7440-70-2)	**136,000**		53.9	4	"	"
Chromium (7440-47-3)	**61.4**		3.6	"	"	"
Cobalt (7440-48-4)	**10.4**		7.2	"	"	"
Copper (7440-50-8)	**15.8**		7.2	"	"	"
Iron (7439-89-6)	**10,500**		9.0	"	"	"
Magnesium (7439-95-4)	**1,880**		53.9	"	"	"
Manganese (7439-96-5)	**1,530**		1.8	"	"	"
Nickel (7440-02-2)	**20.1**		7.2	"	"	"
Potassium (7440-09-7)	**1,040**		359	"	"	"
Silver (7440-22-4)	U		0.9	1	"	"
Sodium (7440-23-5)	U		180	4	"	"
Vanadium (7440-62-2)	**35.2**		7.2	"	"	"
Zinc (7440-66-6)	**49.6**		7.2	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-02 **Station ID: SE-06**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.848g
%Solids: 65.67

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U	UJ	0.4	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**8.0**		0.4	"	"	"
Lead (7439-92-1)	**36.5**	**J**	0.4	"	"	"
Selenium (7782-49-2)	U		0.9	"	"	"
Thallium (7440-28-0)	**0.4**		0.4	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-02 **Station ID: SE-06**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.176g
%Solids: 65.67

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.091**		0.069	1	08/01/16	08/02/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-03 **Station ID: SE-07**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.888g
%Solids: 58.61

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**7,940**		38.4	4	07/26/16	07/28/16
Barium (7440-39-3)	**113**		1.0	1	"	"
Beryllium (7440-41-7)	**0.7**		0.5	"	"	"
Cadmium (7440-43-9)	**0.8**		0.5	"	"	"
Calcium (7440-70-2)	**143,000**		57.6	4	"	"
Chromium (7440-47-3)	**83.4**		3.8	"	"	"
Cobalt (7440-48-4)	**9.6**		7.7	"	"	"
Copper (7440-50-8)	**17.3**		7.7	"	"	"
Iron (7439-89-6)	**10,600**		9.6	"	"	"
Magnesium (7439-95-4)	**1,980**		57.6	"	"	"
Manganese (7439-96-5)	**1,130**		1.9	"	"	"
Nickel (7440-02-2)	**22.3**		7.7	"	"	"
Potassium (7440-09-7)	**1,130**		384	"	"	"
Silver (7440-22-4)	U		1.0	1	"	"
Sodium (7440-23-5)	U		192	4	"	"
Vanadium (7440-62-2)	**38.0**		7.7	"	"	"
Zinc (7440-66-6)	**67.3**		7.7	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-03 **Station ID: SE-07**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.888g
%Solids: 58.61

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**7.4**		0.5	"	"	"
Lead (7439-92-1)	**44.0**		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-03 **Station ID: SE-07**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.196g
%Solids: 58.61

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.143**		0.070	1	08/01/16	08/02/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-04 **Station ID: SE-10**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.562g
%Solids: 84.51

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**6,610**		42.1	4	07/26/16	07/28/16
Barium (7440-39-3)	**85.9**		4.2	"	"	"
Beryllium (7440-41-7)	**0.7**		0.5	1	"	"
Cadmium (7440-43-9)	**0.8**		0.5	"	"	"
Calcium (7440-70-2)	**157,000**		63.2	4	"	"
Chromium (7440-47-3)	**38.3**		1.1	1	"	"
Cobalt (7440-48-4)	U		8.4	4	"	"
Copper (7440-50-8)	**14.7**		8.4	"	"	"
Iron (7439-89-6)	**9,350**		10.5	"	"	"
Magnesium (7439-95-4)	**1,700**		63.2	"	"	"
Manganese (7439-96-5)	**880**		2.1	"	"	"
Nickel (7440-02-2)	**19.8**		8.4	"	"	"
Potassium (7440-09-7)	**872**		421	"	"	"
Silver (7440-22-4)	U		1.1	1	"	"
Sodium (7440-23-5)	U		211	4	"	"
Vanadium (7440-62-2)	**32.0**		8.4	"	"	"
Zinc (7440-66-6)	**64.8**		8.4	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-04 **Station ID: SE-10**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.562g
%Solids: 84.51

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**6.5**		0.5	"	"	"
Lead (7439-92-1)	**107**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-04 **Station ID: SE-10**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.137g
%Solids: 84.51

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.117**		0.069	1	08/01/16	08/02/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-05 **Station ID: SO-06**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.555g
%Solids: 79.47

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**6,260**		45.3	4	07/26/16	07/28/16
Barium (7440-39-3)	**96.1**		4.5	"	"	"
Beryllium (7440-41-7)	**0.6**		0.6	1	"	"
Cadmium (7440-43-9)	**7.3**		2.3	4	"	"
Calcium (7440-70-2)	**132,000**		68.0	"	"	"
Chromium (7440-47-3)	**1,440**		4.5	"	"	"
Cobalt (7440-48-4)	**6.5**		2.3	1	"	"
Copper (7440-50-8)	**61.7**		9.1	4	"	"
Iron (7439-89-6)	**8,930**		11.3	"	"	"
Magnesium (7439-95-4)	**1,780**		68.0	"	"	"
Manganese (7439-96-5)	**857**		2.3	"	"	"
Nickel (7440-02-2)	**78.5**		9.1	"	"	"
Potassium (7440-09-7)	**1,190**		453	"	"	"
Silver (7440-22-4)	U		1.1	1	"	"
Sodium (7440-23-5)	**114**		56.7	"	"	"
Vanadium (7440-62-2)	**31.3**		9.1	4	"	"
Zinc (7440-66-6)	**106**		9.1	"	"	"

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Environmental Protection Agency

Region 6 Laboratory

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

Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-05 **Station ID: SO-06**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.555g
%Solids: 79.47

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	**0.9**		0.6	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**5.7**		0.6	"	"	"
Lead (7439-92-1)	**171**		0.6	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"

KD

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-05 **Station ID: SO-06**

Batch: B6G2705
Sample Type: Solid

Date Collected: 07/19/16
Sample Wt: 0.136g
%Solids: 79.47

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**6.18**		0.740	10	08/01/16	08/02/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-06 **Station ID: SW-05**

Batch: B6G2512 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**120**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**99.5**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**97,300**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**435**		25.0	"	"	"
Magnesium (7439-95-4)	**3,170**		150	"	"	"
Manganese (7439-96-5)	**334**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**2,870**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**16,100**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-06 **Station ID: SW-05**

Batch: B6G2513 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**4.2**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**2.4**	**B**	2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-06 **Station ID: SW-05**

Batch: B6G2706 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-07 **Station ID: SW-06**

Batch: B6G2512 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**171**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**88.3**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**101,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**372**		25.0	"	"	"
Magnesium (7439-95-4)	**3,230**		150	"	"	"
Manganese (7439-96-5)	**262**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**2,960**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**16,200**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-07 **Station ID: SW-06**

Batch: B6G2513 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**4.0**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**2.5**	**B**	2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-07 **Station ID: SW-06**

Batch: B6G2706 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607007-08 **Station ID: SW-07**

Batch: B6G2512 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**381**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**83.6**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**100,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**531**		25.0	"	"	"
Magnesium (7439-95-4)	**3,160**		150	"	"	"
Manganese (7439-96-5)	**265**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**2,850**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**15,400**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607007-08 **Station ID: SW-07**

Batch: B6G2513 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**3.9**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**3.7**	**B**	2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607007-08 **Station ID: SW-07**

Batch: B6G2706 Date Collected: 07/19/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-01 **Station ID: SE-01**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.616g
%Solids: 74.83

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**3,150**		43.4	4	07/26/16	07/28/16
Barium (7440-39-3)	**55.1**		4.3	"	"	"
Beryllium (7440-41-7)	U		0.5	1	"	"
Cadmium (7440-43-9)	**0.5**		0.5	"	"	"
Calcium (7440-70-2)	**174,000**		65.1	4	"	"
Chromium (7440-47-3)	**6.3**		1.1	1	"	"
Cobalt (7440-48-4)	**4.6**		2.2	"	"	"
Copper (7440-50-8)	**7.6**		2.2	"	"	"
Iron (7439-89-6)	**8,160**		10.8	4	"	"
Magnesium (7439-95-4)	**3,330**		65.1	"	"	"
Manganese (7439-96-5)	**625**		2.2	"	"	"
Nickel (7440-02-2)	**9.4**		2.2	1	"	"
Potassium (7440-09-7)	U		434	4	"	"
Silver (7440-22-4)	U		1.1	1	"	"
Sodium (7440-23-5)	U		217	4	"	"
Vanadium (7440-62-2)	**21.7**		8.7	"	"	"
Zinc (7440-66-6)	**45.1**		8.7	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-01 **Station ID: SE-01**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.616g
%Solids: 74.83

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**5.4**		0.5	"	"	"
Lead (7439-92-1)	**26.8**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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33 052

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-01 **Station ID: SE-01**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.183g
%Solids: 74.83

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.058	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-02 **Station ID: SE-02**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.632g
%Solids: 67.59

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**5,830**		46.8	4	07/26/16	07/28/16
Barium (7440-39-3)	**73.5**		4.7	"	"	"
Beryllium (7440-41-7)	**0.6**		0.6	1	"	"
Cadmium (7440-43-9)	**0.6**		0.6	"	"	"
Calcium (7440-70-2)	**161,000**		70.2	4	"	"
Chromium (7440-47-3)	**7.8**		1.2	1	"	"
Cobalt (7440-48-4)	**5.0**		2.3	"	"	"
Copper (7440-50-8)	**12.8**		2.3	"	"	"
Iron (7439-89-6)	**8,330**		11.7	4	"	"
Magnesium (7439-95-4)	**3,330**		70.2	"	"	"
Manganese (7439-96-5)	**501**		2.3	"	"	"
Nickel (7440-02-2)	**15.9**		9.4	"	"	"
Potassium (7440-09-7)	**1,000**		468	"	"	"
Silver (7440-22-4)	U		1.2	1	"	"
Sodium (7440-23-5)	U		234	4	"	"
Vanadium (7440-62-2)	**27.6**		9.4	"	"	"
Zinc (7440-66-6)	**56.7**		9.4	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-02 **Station ID: SE-02**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.632g
%Solids: 67.59

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**5.0**		0.6	"	"	"
Lead (7439-92-1)	**30.3**		0.6	"	"	"
Selenium (7782-49-2)	U		1.2	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-02 **Station ID: SE-02**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.179g
%Solids: 67.59

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.066	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-03 **Station ID: SE-03**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.697g
%Solids: 65.86

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**3,620**		10.9	1	07/26/16	07/28/16
Barium (7440-39-3)	**51.5**		1.1	"	"	"
Beryllium (7440-41-7)	U		0.5	"	"	"
Cadmium (7440-43-9)	**0.9**		0.5	"	"	"
Calcium (7440-70-2)	**136,000**		16.3	"	"	"
Chromium (7440-47-3)	**11.4**		1.1	"	"	"
Cobalt (7440-48-4)	**5.8**		2.2	"	"	"
Copper (7440-50-8)	**17.9**		2.2	"	"	"
Iron (7439-89-6)	**11,900**		2.7	"	"	"
Magnesium (7439-95-4)	**1,490**		16.3	"	"	"
Manganese (7439-96-5)	**583**		0.5	"	"	"
Nickel (7440-02-2)	**14.5**		2.2	"	"	"
Potassium (7440-09-7)	**550**		109	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	**170**		54.5	"	"	"
Vanadium (7440-62-2)	**24.3**		2.2	"	"	"
Zinc (7440-66-6)	**57.7**		2.2	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-03 **Station ID: SE-03**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.697g
%Solids: 65.86

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/01/16
Arsenic (7440-38-2)	**5.8**		0.5	"	"	"
Lead (7439-92-1)	**52.9**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-03 **Station ID: SE-03**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.179g
%Solids: 65.86

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.068	1	08/04/16	08/04/16

sm

Environmental Protection Agency

Region 6 Laboratory

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

Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-04 **Station ID: SE-04**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.905g
%Solids: 51.56

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**6,800**		42.9	4	07/26/16	07/28/16
Barium (7440-39-3)	**101**		4.3	"	"	"
Beryllium (7440-41-7)	**0.6**		0.5	1	"	"
Cadmium (7440-43-9)	**1.0**		0.5	"	"	"
Calcium (7440-70-2)	**163,000**		64.3	4	"	"
Chromium (7440-47-3)	**33.4**		4.3	"	"	"
Cobalt (7440-48-4)	**6.5**		2.1	1	"	"
Copper (7440-50-8)	**27.4**		8.6	4	"	"
Iron (7439-89-6)	**10,200**		10.7	"	"	"
Magnesium (7439-95-4)	**2,200**		64.3	"	"	"
Manganese (7439-96-5)	**596**		2.1	"	"	"
Nickel (7440-02-2)	**19.7**		8.6	"	"	"
Potassium (7440-09-7)	**1,050**		429	"	"	"
Silver (7440-22-4)	U		1.1	1	"	"
Sodium (7440-23-5)	U		214	4	"	"
Vanadium (7440-62-2)	**35.6**		8.6	"	"	"
Zinc (7440-66-6)	**111**		8.6	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-04 **Station ID: SE-04**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.905g
%Solids: 51.56

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**5.8**		0.5	"	"	"
Lead (7439-92-1)	**69.9**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

KD

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-04 **Station ID: SE-04**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.209g
%Solids: 51.56

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.214**		0.074	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-05 **Station ID: SO-01**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.537g
%Solids: 83.61

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**8,220**		11.1	1	07/26/16	07/28/16
Barium (7440-39-3)	**97.2**		1.1	"	"	"
Beryllium (7440-41-7)	**0.8**		0.6	"	"	"
Cadmium (7440-43-9)	**0.8**		0.6	"	"	"
Calcium (7440-70-2)	**68,100**		16.7	"	"	"
Chromium (7440-47-3)	**10.7**		1.1	"	"	"
Cobalt (7440-48-4)	**8.0**		2.2	"	"	"
Copper (7440-50-8)	**12.8**		2.2	"	"	"
Iron (7439-89-6)	**10,400**		2.8	"	"	"
Magnesium (7439-95-4)	**1,900**		16.7	"	"	"
Manganese (7439-96-5)	**913**		0.6	"	"	"
Nickel (7440-02-2)	**18.5**		2.2	"	"	"
Potassium (7440-09-7)	**1,730**		111	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		55.7	"	"	"
Vanadium (7440-62-2)	**40.3**		2.2	"	"	"
Zinc (7440-66-6)	**47.5**		2.2	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-05 **Station ID: SO-01**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.537g
%Solids: 83.61

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**5.2**		0.6	"	"	"
Lead (7439-92-1)	**52.9**		0.6	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-05 **Station ID: SO-01**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.13g
%Solids: 83.61

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.074	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-06 **Station ID: SO-02**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.541g
%Solids: 82.94

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**6,200**		44.6	4	07/26/16	07/28/16
Barium (7440-39-3)	**77.6**		4.5	"	"	"
Beryllium (7440-41-7)	**0.6**		0.6	1	"	"
Cadmium (7440-43-9)	**0.6**		0.6	"	"	"
Calcium (7440-70-2)	**165,000**		66.9	4	"	"
Chromium (7440-47-3)	**7.9**		1.1	1	"	"
Cobalt (7440-48-4)	**4.8**		2.2	"	"	"
Copper (7440-50-8)	**11.1**		8.9	4	"	"
Iron (7439-89-6)	**7,440**		11.1	"	"	"
Magnesium (7439-95-4)	**1,810**		66.9	"	"	"
Manganese (7439-96-5)	**651**		2.2	"	"	"
Nickel (7440-02-2)	**15.2**		8.9	"	"	"
Potassium (7440-09-7)	**1,010**		446	"	"	"
Silver (7440-22-4)	U		1.1	1	"	"
Sodium (7440-23-5)	U		223	4	"	"
Vanadium (7440-62-2)	**25.4**		8.9	"	"	"
Zinc (7440-66-6)	**36.1**		8.9	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-06 **Station ID: SO-02**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.541g
%Solids: 82.94

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**4.6**		0.6	"	"	"
Lead (7439-92-1)	**24.6**		0.6	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-06 **Station ID: SO-02**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.139g
%Solids: 82.94

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.069	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-07 **Station ID: SO-03**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.535g
%Solids: 83.31

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**6,380**		11.2	1	07/26/16	07/28/16
Barium (7440-39-3)	**141**		1.1	"	"	"
Beryllium (7440-41-7)	U		0.6	"	"	"
Cadmium (7440-43-9)	**82.2**		0.6	"	"	"
Calcium (7440-70-2)	**85,100**		16.8	"	"	"
Chromium (7440-47-3)	**4,180**		1.1	"	"	"
Cobalt (7440-48-4)	**10.7**		2.2	"	"	"
Copper (7440-50-8)	**249**		2.2	"	"	"
Iron (7439-89-6)	**27,400**		2.8	"	"	"
Magnesium (7439-95-4)	**1,540**		16.8	"	"	"
Manganese (7439-96-5)	**788**		0.6	"	"	"
Nickel (7440-02-2)	**535**		2.2	"	"	"
Potassium (7440-09-7)	**1,350**		112	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	**72.6**		56.1	"	"	"
Vanadium (7440-62-2)	**36.1**		2.2	"	"	"
Zinc (7440-66-6)	**465**		2.2	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-07 **Station ID: SO-03**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.535g
%Solids: 83.31

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	**6.4**	**J**	0.6	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**6.2**		0.6	"	"	"
Lead (7439-92-1)	**1,620**		0.6	"	"	"
Selenium (7782-49-2)	U	UJ	1.1	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-07 **Station ID: SO-03**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.124g
%Solids: 83.31

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**32.6**		15.5	200	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-08 **Station ID: SO-04**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.611g
%Solids: 77.05

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**9,430**		42.5	4	07/26/16	07/28/16
Barium (7440-39-3)	**97.3**		4.2	"	"	"
Beryllium (7440-41-7)	**0.7**		0.5	1	"	"
Cadmium (7440-43-9)	**14.9**		0.5	"	"	"
Calcium (7440-70-2)	**105,000**		63.7	4	"	"
Chromium (7440-47-3)	**2,100**		4.2	"	"	"
Cobalt (7440-48-4)	**9.8**		2.1	1	"	"
Copper (7440-50-8)	**59.1**		8.5	4	"	"
Iron (7439-89-6)	**13,400**		10.6	"	"	"
Magnesium (7439-95-4)	**2,110**		63.7	"	"	"
Manganese (7439-96-5)	**952**		2.1	"	"	"
Nickel (7440-02-2)	**359**		8.5	"	"	"
Potassium (7440-09-7)	**1,590**		425	"	"	"
Silver (7440-22-4)	U		1.1	1	"	"
Sodium (7440-23-5)	U		212	4	"	"
Vanadium (7440-62-2)	**44.2**		8.5	"	"	"
Zinc (7440-66-6)	**176**		8.5	"	"	"

ts

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Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-08 **Station ID: SO-04**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.611g
%Solids: 77.05

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	**0.5**		0.5	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**6.5**		0.5	"	"	"
Lead (7439-92-1)	**109**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

KD

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-08 **Station ID: SO-04**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.148g
%Solids: 77.05

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**6.63**		0.702	10	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-09 **Station ID: SO-05**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.628g
%Solids: 75.04

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**11,200**		10.6	1	07/26/16	07/28/16
Barium (7440-39-3)	**122**		1.1	"	"	"
Beryllium (7440-41-7)	**0.9**		0.5	"	"	"
Cadmium (7440-43-9)	**17.0**		0.5	"	"	"
Calcium (7440-70-2)	**37,400**		15.9	"	"	"
Chromium (7440-47-3)	**3,970**		1.1	"	"	"
Cobalt (7440-48-4)	**11.3**		2.1	"	"	"
Copper (7440-50-8)	**44.4**		2.1	"	"	"
Iron (7439-89-6)	**22,300**		2.7	"	"	"
Magnesium (7439-95-4)	**2,180**		15.9	"	"	"
Manganese (7439-96-5)	**1,190**		0.5	"	"	"
Nickel (7440-02-2)	**82.3**		2.1	"	"	"
Potassium (7440-09-7)	**2,060**		106	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	U		53.0	"	"	"
Vanadium (7440-62-2)	**50.3**		2.1	"	"	"
Zinc (7440-66-6)	**249**		2.1	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-09 **Station ID: SO-05**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.628g
%Solids: 75.04

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	**0.5**		0.5	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**7.4**		0.5	"	"	"
Lead (7439-92-1)	**60.7**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-09 **Station ID: SO-05**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.133g
%Solids: 75.04

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**5.37**		0.802	10	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-10 **Station ID: SO-07**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.566g
%Solids: 83.51

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**5,840**		42.3	4	07/26/16	07/28/16
Barium (7440-39-3)	**88.9**		4.2	"	"	"
Beryllium (7440-41-7)	**0.6**		0.5	1	"	"
Cadmium (7440-43-9)	**1.0**		0.5	"	"	"
Calcium (7440-70-2)	**147,000**		63.5	4	"	"
Chromium (7440-47-3)	**30.5**		4.2	"	"	"
Cobalt (7440-48-4)	**6.1**		2.1	1	"	"
Copper (7440-50-8)	**23.7**		8.5	4	"	"
Iron (7439-89-6)	**8,780**		10.6	"	"	"
Magnesium (7439-95-4)	**1,720**		63.5	"	"	"
Manganese (7439-96-5)	**770**		2.1	"	"	"
Nickel (7440-02-2)	**17.3**		8.5	"	"	"
Potassium (7440-09-7)	**711**		423	"	"	"
Silver (7440-22-4)	U		1.1	1	"	"
Sodium (7440-23-5)	U		212	4	"	"
Vanadium (7440-62-2)	**30.9**		8.5	"	"	"
Zinc (7440-66-6)	**90.5**		8.5	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-10 **Station ID: SO-07**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.566g
%Solids: 83.51

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**5.4**		0.5	"	"	"
Lead (7439-92-1)	**149**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-10 **Station ID: SO-07**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.127g
%Solids: 83.51

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.200**		0.075	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-11 **Station ID: SO-08**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.562g
%Solids: 83.25

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**7,910**		10.7	1	07/26/16	07/28/16
Barium (7440-39-3)	**133**		1.1	"	"	"
Beryllium (7440-41-7)	**0.5**		0.5	"	"	"
Cadmium (7440-43-9)	**63.0**		0.5	"	"	"
Calcium (7440-70-2)	**93,900**		16.0	"	"	"
Chromium (7440-47-3)	**4,510**		1.1	"	"	"
Cobalt (7440-48-4)	**9.6**		2.1	"	"	"
Copper (7440-50-8)	**276**		2.1	"	"	"
Iron (7439-89-6)	**16,600**		2.7	"	"	"
Magnesium (7439-95-4)	**1,810**		16.0	"	"	"
Manganese (7439-96-5)	**804**		0.5	"	"	"
Nickel (7440-02-2)	**497**		2.1	"	"	"
Potassium (7440-09-7)	**1,600**		107	"	"	"
Silver (7440-22-4)	U		1.1	"	"	"
Sodium (7440-23-5)	**73.1**		53.4	"	"	"
Vanadium (7440-62-2)	**37.4**		2.1	"	"	"
Zinc (7440-66-6)	**433**		2.1	"	"	"

ts

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Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-11 **Station ID: SO-08**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.562g
%Solids: 83.25

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	**12.7**		0.5	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**6.8**		0.5	"	"	"
Lead (7439-92-1)	**3,010**		0.5	"	"	"
Selenium (7782-49-2)	U		1.1	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

KD

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-11 **Station ID: SO-08**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/20/16
Sample Wt: 0.125g
%Solids: 83.25

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**54.6**		7.69	100	08/04/16	08/04/16

sm

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Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-12 **Station ID: SW-01**

Batch: B6G2512 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**95.3**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**131,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**72.6**		25.0	"	"	"
Magnesium (7439-95-4)	**3,310**		150	"	"	"
Manganese (7439-96-5)	**45.5**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**1,550**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**18,800**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-12 **Station ID: SW-01**

Batch: B6G2513 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	U		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-12 **Station ID: SW-01**

Batch: B6G2706 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-13 **Station ID: SW-03**

Batch: B6G2512 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**4,380**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**127**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**135,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**4,500**		25.0	"	"	"
Magnesium (7439-95-4)	**4,040**		150	"	"	"
Manganese (7439-96-5)	**820**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**3,690**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**16,200**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	**29.4**		20.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-13 **Station ID: SW-03**

Batch: B6G2513 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**5.5**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	**6.1**		4.0	"	"	"
Lead (7439-92-1)	**15.6**		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-13 **Station ID: SW-03**

Batch: B6G2706 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607008-14 **Station ID: SW-04**

Batch: B6G2512 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**23,200**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**376**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**408,000**		150	"	"	"
Chromium (7440-47-3)	**51.3**		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	**120**		20.0	"	"	"
Iron (7439-89-6)	**25,400**		25.0	"	"	"
Magnesium (7439-95-4)	**9,200**		150	"	"	"
Manganese (7439-96-5)	**2,730**		5.0	"	"	"
Nickel (7440-02-2)	**42.6**		20.0	"	"	"
Potassium (7440-09-7)	**6,630**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**19,100**		500	"	"	"
Vanadium (7440-62-2)	**75.9**		20.0	"	"	"
Zinc (7440-66-6)	**239**		20.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607008-14 **Station ID: SW-04**

Batch: B6G2513 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**17.6**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	**41.2**		4.0	"	"	"
Lead (7439-92-1)	**139**		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607008-14 **Station ID: SW-04**

Batch: B6G2706 Date Collected: 07/20/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.357**		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-01 **Station ID: SE-08**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.811g
%Solids: 65.68

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**5,750**		37.5	4	07/26/16	07/28/16
Barium (7440-39-3)	**69.8**		3.8	"	"	"
Beryllium (7440-41-7)	**0.5**		0.5	1	"	"
Cadmium (7440-43-9)	**0.8**		0.5	"	"	"
Calcium (7440-70-2)	**148,000**		56.3	4	"	"
Chromium (7440-47-3)	**31.5**		3.8	"	"	"
Cobalt (7440-48-4)	**4.9**		1.9	1	"	"
Copper (7440-50-8)	**16.1**		7.5	4	"	"
Iron (7439-89-6)	**7,920**		9.4	"	"	"
Magnesium (7439-95-4)	**1,590**		56.3	"	"	"
Manganese (7439-96-5)	**473**		1.9	"	"	"
Nickel (7440-02-2)	**14.6**		7.5	"	"	"
Potassium (7440-09-7)	**867**		375	"	"	"
Silver (7440-22-4)	U		0.9	1	"	"
Sodium (7440-23-5)	U		188	4	"	"
Vanadium (7440-62-2)	**27.8**		7.5	"	"	"
Zinc (7440-66-6)	**74.3**		7.5	"	"	"

ts

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-01 **Station ID: SE-08**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.811g
%Solids: 65.68

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**3.6**		0.5	"	"	"
Lead (7439-92-1)	**109**		0.5	"	"	"
Selenium (7782-49-2)	U		0.9	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-01 **Station ID: SE-08**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.194g
%Solids: 65.68

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.074**		0.063	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-02 **Station ID: SE-09**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.956g
%Solids: 43.89

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**7,860**		47.7	4	07/26/16	07/28/16
Barium (7440-39-3)	**89.1**		4.8	"	"	"
Beryllium (7440-41-7)	**0.7**		0.6	1	"	"
Cadmium (7440-43-9)	**0.9**		0.6	"	"	"
Calcium (7440-70-2)	**146,000**		71.5	4	"	"
Chromium (7440-47-3)	**19.5**		4.8	"	"	"
Cobalt (7440-48-4)	**6.4**		2.4	1	"	"
Copper (7440-50-8)	**21.9**		9.5	4	"	"
Iron (7439-89-6)	**10,100**		11.9	"	"	"
Magnesium (7439-95-4)	**1,900**		71.5	"	"	"
Manganese (7439-96-5)	**500**		2.4	"	"	"
Nickel (7440-02-2)	**18.6**		9.5	"	"	"
Potassium (7440-09-7)	**1,220**		477	"	"	"
Silver (7440-22-4)	U		1.2	1	"	"
Sodium (7440-23-5)	U		238	4	"	"
Vanadium (7440-62-2)	**34.3**		9.5	"	"	"
Zinc (7440-66-6)	**81.5**		9.5	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-02 **Station ID: SE-09**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.956g
%Solids: 43.89

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.6	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**4.7**		0.6	"	"	"
Lead (7439-92-1)	**70.6**		0.6	"	"	"
Selenium (7782-49-2)	U		1.2	"	"	"
Thallium (7440-28-0)	U		0.6	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-02 **Station ID: SE-09**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.235g
%Solids: 43.89

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.085**		0.078	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-03 **Station ID: SE-14**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.941g
%Solids: 62.32

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**5,180**		34.1	4	07/26/16	07/28/16
Barium (7440-39-3)	**66.8**		3.4	"	"	"
Beryllium (7440-41-7)	**0.5**		0.4	1	"	"
Cadmium (7440-43-9)	**0.8**		0.4	"	"	"
Calcium (7440-70-2)	**160,000**		51.2	4	"	"
Chromium (7440-47-3)	**28.6**		3.4	"	"	"
Cobalt (7440-48-4)	**5.1**		1.7	1	"	"
Copper (7440-50-8)	**14.7**		6.8	4	"	"
Iron (7439-89-6)	**8,830**		8.5	"	"	"
Magnesium (7439-95-4)	**1,560**		51.2	"	"	"
Manganese (7439-96-5)	**501**		1.7	"	"	"
Nickel (7440-02-2)	**14.7**		6.8	"	"	"
Potassium (7440-09-7)	**784**		341	"	"	"
Silver (7440-22-4)	U		0.9	1	"	"
Sodium (7440-23-5)	U		171	4	"	"
Vanadium (7440-62-2)	**28.0**		6.8	"	"	"
Zinc (7440-66-6)	**70.9**		6.8	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-03 **Station ID: SE-14**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.941g
%Solids: 62.32

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.4	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**5.1**		0.4	"	"	"
Lead (7439-92-1)	**131**		0.4	"	"	"
Selenium (7782-49-2)	U		0.9	"	"	"
Thallium (7440-28-0)	U		0.4	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-03 **Station ID: SE-14**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.198g
%Solids: 62.32

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.098**		0.065	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-04 **Station ID: SE-15**

Batch: B6G2610
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.977g
%Solids: 50.02

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**6,910**		40.9	4	07/26/16	07/28/16
Barium (7440-39-3)	**73.3**		4.1	"	"	"
Beryllium (7440-41-7)	**0.6**		0.5	1	"	"
Cadmium (7440-43-9)	**0.7**		0.5	"	"	"
Calcium (7440-70-2)	**121,000**		61.4	4	"	"
Chromium (7440-47-3)	**18.0**		4.1	"	"	"
Cobalt (7440-48-4)	**5.6**		2.0	1	"	"
Copper (7440-50-8)	**18.4**		8.2	4	"	"
Iron (7439-89-6)	**8,640**		10.2	"	"	"
Magnesium (7439-95-4)	**1,660**		61.4	"	"	"
Manganese (7439-96-5)	**426**		2.0	"	"	"
Nickel (7440-02-2)	**16.0**		8.2	"	"	"
Potassium (7440-09-7)	**1,060**		409	"	"	"
Silver (7440-22-4)	U		1.0	1	"	"
Sodium (7440-23-5)	U		205	4	"	"
Vanadium (7440-62-2)	**28.2**		8.2	"	"	"
Zinc (7440-66-6)	**73.3**		8.2	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-04 **Station ID: SE-15**

Batch: B6G2611
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.977g
%Solids: 50.02

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		0.5	10	07/26/16	08/02/16
Arsenic (7440-38-2)	**4.0**		0.5	"	"	"
Lead (7439-92-1)	**61.5**		0.5	"	"	"
Selenium (7782-49-2)	U		1.0	"	"	"
Thallium (7440-28-0)	U		0.5	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-04 **Station ID: SE-15**

Batch: B6H0109
Sample Type: Solid

Date Collected: 07/21/16
Sample Wt: 0.235g
%Solids: 50.02

Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	**0.086**		0.068	1	08/04/16	08/04/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-05 **Station ID: SW-08**

Batch: B6G2512 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**386**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**82.8**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**81,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**528**		25.0	"	"	"
Magnesium (7439-95-4)	**2,550**		150	"	"	"
Manganese (7439-96-5)	**974**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**3,370**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**12,600**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-05 **Station ID: SW-08**

Batch: B6G2513 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**4.1**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**3.3**		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-05 **Station ID: SW-08**

Batch: B6G2706 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-06 **Station ID: SW-09**

Batch: B6G2512 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**762**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**53.6**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**70,800**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**943**		25.0	"	"	"
Magnesium (7439-95-4)	**2,400**		150	"	"	"
Manganese (7439-96-5)	**318**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**3,660**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**11,300**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-06 **Station ID: SW-09**

Batch: B6G2513 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**4.0**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**6.2**		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-06 **Station ID: SW-09**

Batch: B6G2706 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-07 **Station ID: SW-14**

Batch: B6G2512 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**351**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**63.2**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**82,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**571**		25.0	"	"	"
Magnesium (7439-95-4)	**2,610**		150	"	"	"
Manganese (7439-96-5)	**359**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**3,230**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**13,000**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-07 **Station ID: SW-14**

Batch: B6G2513 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**4.3**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**3.2**		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-07 **Station ID: SW-14**

Batch: B6G2706 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1607010-08 **Station ID: SW-15**

Batch: B6G2512 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**842**		100	1	07/25/16	07/27/16
Barium (7440-39-3)	**57.7**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**72,500**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**1,020**		25.0	"	"	"
Magnesium (7439-95-4)	**2,510**		150	"	"	"
Manganese (7439-96-5)	**399**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	**3,780**		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**11,700**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

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Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1607010-08 **Station ID: SW-15**

Batch: B6G2513 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/16	07/28/16
Arsenic (7440-38-2)	**4.5**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Copper (7440-50-8)	U		4.0	"	"	"
Lead (7439-92-1)	**5.7**		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Silver (7440-22-4)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals by CLP ILMO5.3 - CVAAS

Lab ID: 1607010-08 **Station ID: SW-15**

Batch: B6G2706 Date Collected: 07/21/16
Sample Type: Liquid Sample Vol: 25ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Mercury (7439-97-6)	U		0.200	1	08/02/16	08/03/16

sm

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Percent Solids - Quality Control

Duplicate (B6G2102-DUP1)

Source: 1607003-01 Prepared: 7/21/2016 Analyzed: 7/26/2016

Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	77.96				78.05	0.12	20

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Percent Solids - Quality Control

Duplicate (B6G2516-DUP1)

Source: 1607010-01 Prepared: 7/25/2016 Analyzed: 7/26/2016

Targets

ANALYTE	Result %	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
% Solids	60.84				65.68	7.64	20

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2512 **Sample Type: Liquid**

Blank (B6G2512-BLK1)

Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Aluminum	U		100
Barium	U		10.0
Beryllium	U		5.0
Cadmium	U		5.0
Calcium	U		150
Chromium	U		10.0
Cobalt	U		20.0
Copper	U		20.0
Iron	U		25.0
Magnesium	U		150
Manganese	U		5.0
Nickel	U		20.0
Potassium	U		1,000
Silver	U		10.0
Sodium	U		500
Vanadium	U		20.0
Zinc	U		20.0

LCS (B6G2512-BS1)

Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	946		100	1,000	94.6	75-125
Barium	1,860		10.0	2,000	93.2	75-125
Beryllium	48.2		5.0	50.0	96.4	75-125
Cadmium	47.8		5.0	50.0	95.7	75-125
Calcium	93,100		150	100,000	93.1	75-125
Chromium	381		10.0	400	95.3	75-125
Cobalt	184		20.0	200	91.9	75-125
Copper	389		20.0	400	97.1	75-125

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2512 **Sample Type: Liquid**

LCS (B6G2512-BS1)

Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Iron	946		25.0	1,000	94.6	75-125
Magnesium	97,600		150	100,000	97.6	75-125
Manganese	376		5.0	400	94.0	75-125
Nickel	362		20.0	400	90.6	75-125
Potassium	98,000		1,000	100,000	98.0	75-125
Silver	47.5		10.0	50.0	94.9	75-125
Sodium	97,500		500	100,000	97.5	75-125
Vanadium	394		20.0	400	98.4	75-125
Zinc	940		20.0	1,000	94.0	75-125

Matrix Spike (B6G2512-MS1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	1,020		100	1,000	44.4	97.6	75-125
Barium	1,930		10.0	2,000	85.7	92.0	75-125
Beryllium	47.9		5.0	50.0	0.3	95.1	75-125
Cadmium	47.1		5.0	50.0		94.1	75-125
Calcium	213,000		150	100,000	128,000	84.8	75-125
Chromium	374		10.0	400		93.6	75-125
Cobalt	181		20.0	200	1.3	89.7	75-125
Copper	386		20.0	400	1.4	96.2	75-125
Iron	1,360		25.0	1,000	434	93.1	75-125
Magnesium	105,000		150	100,000	8,310	96.6	75-125
Manganese	616		5.0	400	257	89.8	75-125
Nickel	357		20.0	400	4.1	88.2	75-125
Potassium	105,000		1,000	100,000	2,510	102	75-125
Silver	47.8		10.0	50.0	1.6	92.2	75-125
Sodium	174,000		500	100,000	79,000	94.9	75-125
Vanadium	391		20.0	400	2.7	97.1	75-125

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2512 **Sample Type: Liquid**

Matrix Spike (B6G2512-MS1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Zinc	928		20.0	1,000	0.5	92.8	75-125

Matrix Spike (B6G2512-MS2)

Source: 1607007-07 Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	1,210		100	1,000	171	104	75-125
Barium	1,940		10.0	2,000	88.3	92.5	75-125
Beryllium	48.0		5.0	50.0	0.3	95.4	75-125
Cadmium	47.5		5.0	50.0		95.0	75-125
Calcium	186,000		150	100,000	101,000	85.7	75-125
Chromium	377		10.0	400		94.3	75-125
Cobalt	182		20.0	200	1.6	90.2	75-125
Copper	389		20.0	400	1.3	97.0	75-125
Iron	1,350		25.0	1,000	372	97.8	75-125
Magnesium	99,700		150	100,000	3,230	96.4	75-125
Manganese	639		5.0	400	262	94.4	75-125
Nickel	359		20.0	400	4.9	88.6	75-125
Potassium	102,000		1,000	100,000	2,960	98.6	75-125
Silver	47.4		10.0	50.0	1.5	92.0	75-125
Sodium	114,000		500	100,000	16,200	97.5	75-125
Vanadium	394		20.0	400	4.6	97.3	75-125
Zinc	936		20.0	1,000	1.2	93.5	75-125

Matrix Spike Dup (B6G2512-MSD1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2512 **Sample Type: Liquid**

Matrix Spike Dup (B6G2512-MSD1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	1,020		100	1,000	44.4	97.2	75-125	0.41	20
Barium	1,910		10.0	2,000	85.7	91.4	75-125	0.60	20
Beryllium	47.8		5.0	50.0	0.3	95.1	75-125	0.03	20
Cadmium	46.9		5.0	50.0		93.8	75-125	0.35	20
Calcium	208,000		150	100,000	128,000	79.6	75-125	2.50	20
Chromium	373		10.0	400		93.2	75-125	0.41	20
Cobalt	181		20.0	200	1.3	89.6	75-125	0.06	20
Copper	386		20.0	400	1.4	96.1	75-125	0.12	20
Iron	1,340		25.0	1,000	434	90.5	75-125	1.91	20
Magnesium	105,000		150	100,000	8,310	96.3	75-125	0.25	20
Manganese	608		5.0	400	257	87.7	75-125	1.40	20
Nickel	356		20.0	400	4.1	87.9	75-125	0.36	20
Potassium	104,000		1,000	100,000	2,510	102	75-125	0.35	20
Silver	47.6		10.0	50.0	1.6	91.9	75-125	0.39	20
Sodium	169,000		500	100,000	79,000	90.2	75-125	2.71	20
Vanadium	389		20.0	400	2.7	96.6	75-125	0.52	20
Zinc	929		20.0	1,000	0.5	92.9	75-125	0.11	20

Matrix Spike Dup (B6G2512-MSD2)

Source: 1607007-07 Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	1,290		100	1,000	171	112	75-125	6.88	20
Barium	1,980		10.0	2,000	88.3	94.3	75-125	1.93	20
Beryllium	49.4		5.0	50.0	0.3	98.1	75-125	2.86	20
Cadmium	48.2		5.0	50.0		96.4	75-125	1.47	20
Calcium	187,000		150	100,000	101,000	86.5	75-125	0.47	20
Chromium	387		10.0	400		96.7	75-125	2.54	20
Cobalt	187		20.0	200	1.6	92.5	75-125	2.51	20
Copper	399		20.0	400	1.3	99.3	75-125	2.37	20

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2512 **Sample Type: Liquid**

Matrix Spike Dup (B6G2512-MSD2)

Source: 1607007-07 Prepared: 7/25/2016 Analyzed: 7/27/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Iron	1,390		25.0	1,000	372	102	75-125	3.02	20
Magnesium	102,000		150	100,000	3,230	99.2	75-125	2.77	20
Manganese	640		5.0	400	262	94.7	75-125	0.17	20
Nickel	367		20.0	400	4.9	90.6	75-125	2.28	20
Potassium	104,000		1,000	100,000	2,960	101	75-125	2.80	20
Silver	48.4		10.0	50.0	1.5	93.8	75-125	1.93	20
Sodium	116,000		500	100,000	16,200	100	75-125	2.26	20
Vanadium	404		20.0	400	4.6	99.7	75-125	2.45	20
Zinc	956		20.0	1,000	1.2	95.5	75-125	2.14	20

Environmental Protection Agency

Region 6 Laboratory

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

Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Blank (B6G2610-BLK1)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Aluminum	U		10.0
Barium	U		1.0
Beryllium	U		0.5
Cadmium	U		0.5
Calcium	U		15.0
Chromium	U		1.0
Cobalt	U		2.0
Copper	U		2.0
Iron	U		2.5
Magnesium	U		15.0
Manganese	U		0.5
Nickel	U		2.0
Potassium	U		100
Silver	U		1.0
Sodium	U		50.0
Vanadium	U		2.0
Zinc	U		2.0

Blank (B6G2610-BLK2)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Aluminum	U		10.0
Barium	U		1.0
Beryllium	U		0.5
Cadmium	U		0.5
Calcium	U		15.0
Chromium	U		1.0
Cobalt	U		2.0
Copper	U		2.0

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Blank (B6G2610-BLK2)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Iron	U		2.5
Magnesium	U		15.0
Manganese	U		0.5
Nickel	U		2.0
Potassium	U		100
Silver	U		1.0
Sodium	U		50.0
Vanadium	U		2.0
Zinc	U		2.0

LCS (B6G2610-BS1)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	92.0		10.0	100	92.0	75-125
Barium	182		1.0	200	91.2	75-125
Beryllium	4.7		0.5	5.00	94.0	75-125
Cadmium	4.7		0.5	5.00	93.7	75-125
Calcium	9,070		15.0	10,000	90.7	75-125
Chromium	36.9		1.0	40.0	92.2	75-125
Cobalt	17.8		2.0	20.0	89.1	75-125
Copper	38.2		2.0	40.0	95.4	75-125
Iron	92.6		2.5	100	92.6	75-125
Magnesium	9,470		15.0	10,000	94.7	75-125
Manganese	36.9		0.5	40.0	92.1	75-125
Nickel	35.0		2.0	40.0	87.5	75-125
Potassium	9,580		100	10,000	95.8	75-125
Silver	4.7		1.0	5.00	94.4	75-125
Sodium	9,520		50.0	10,000	95.2	75-125
Vanadium	38.6		2.0	40.0	96.4	75-125

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

LCS (B6G2610-BS1)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Zinc	91.6		2.0	100	91.6	75-125

LCS (B6G2610-BS2)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	87.0		10.0	100	87.0	75-125
Barium	174		1.0	200	86.9	75-125
Beryllium	4.5		0.5	5.00	89.7	75-125
Cadmium	4.5		0.5	5.00	90.4	75-125
Calcium	8,620		15.0	10,000	86.2	75-125
Chromium	35.3		1.0	40.0	88.3	75-125
Cobalt	17.1		2.0	20.0	85.5	75-125
Copper	36.3		2.0	40.0	90.8	75-125
Iron	88.4		2.5	100	88.4	75-125
Magnesium	9,000		15.0	10,000	90.0	75-125
Manganese	35.2		0.5	40.0	88.0	75-125
Nickel	33.8		2.0	40.0	84.4	75-125
Potassium	9,080		100	10,000	90.8	75-125
Silver	4.5		1.0	5.00	90.7	75-125
Sodium	9,030		50.0	10,000	90.3	75-125
Vanadium	36.7		2.0	40.0	91.9	75-125
Zinc	87.7		2.0	100	87.7	75-125

Matrix Spike (B6G2610-MS1)

Source: 1607003-01 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Matrix Spike (B6G2610-MS1)

Source: 1607003-01 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Aluminum	5,450		11.1	111	2,850	NR	#	75-125
Barium	240		1.1	222	47.4	86.9		75-125
Beryllium	5.6		0.6	5.55	0.6	91.3		75-125
Cadmium	5.1		0.6	5.55	0.2	88.4		75-125
Calcium	46,300		16.7	11,100	41,900	39.7	#	75-125
Chromium	45.6		1.1	44.4	3.5	95.0		75-125
Cobalt	21.3		2.2	22.2	2.4	84.9		75-125
Copper	46.9		2.2	44.4	6.6	90.9		75-125
Iron	4,150		2.8	111	3,040	1000	#	75-125
Magnesium	10,900		16.7	11,100	495	93.4		75-125
Manganese	92.1		0.6	44.4	68.1	54.0	#	75-125
Nickel	42.9		2.2	44.4	5.9	83.4		75-125
Potassium	11,600		111	11,100	383	101		75-125
Silver	4.8		1.1	5.55	0.01	86.3		75-125
Sodium	10,500		55.5	11,100	88.3	94.0		75-125
Vanadium	54.8		2.2	44.4	13.0	94.2		75-125
Zinc	110		2.2	111	15.2	85.2		75-125

Matrix Spike (B6G2610-MS2)

Source: 1607007-02 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Aluminum	10,000		36.6	91.5	7,870	NR	#	75-125
Barium	283		3.7	183	120	89.3		75-125
Beryllium	4.7		0.5	4.58	0.7	86.6		75-125
Cadmium	4.5		0.5	4.58	0.7	82.9		75-125
Calcium	141,000		54.9	9,150	136,000	58.5	#	75-125
Chromium	103		3.7	36.6	61.4	113		75-125
Cobalt	26.4		7.3	18.3	10.4	87.1		75-125
Copper	45.0		1.8	36.6	15.8	79.8		75-125

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Matrix Spike (B6G2610-MS2)

Source: 1607007-02 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Iron	11,600		9.2	91.5	10,500	NR	#	75-125
Magnesium	10,700		54.9	9,150	1,880	96.2		75-125
Manganese	1,640		1.8	36.6	1,530	320	#	75-125
Nickel	53.4		7.3	36.6	20.1	91.1		75-125
Potassium	9,960		366	9,150	1,040	97.5		75-125
Silver	3.5		0.9	4.58		75.7		75-125
Sodium	9,080		183	9,150	122	97.9		75-125
Vanadium	71.4		7.3	36.6	35.2	98.8		75-125
Zinc	136		7.3	91.5	49.6	94.6		75-125

Matrix Spike (B6G2610-MS3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Aluminum	9,830		11.3	113	6,380	NR	#	75-125
Barium	329		1.1	226	141	83.3		75-125
Beryllium	5.7		0.6	5.64	0.5	93.0		75-125
Cadmium	47.8		0.6	5.64	82.2	NR	#	75-125
Calcium	98,000		16.9	11,300	85,100	114		75-125
Chromium	4,490		1.1	45.1	4,180	676	#	75-125
Cobalt	29.5		2.3	22.6	10.7	83.3		75-125
Copper	421		2.3	45.1	249	379	#	75-125
Iron	16,700		2.8	113	27,400	NR	#	75-125
Magnesium	12,100		16.9	11,300	1,540	94.0		75-125
Manganese	824		0.6	45.1	788	80.2		75-125
Nickel	603		2.3	45.1	535	151	#	75-125
Potassium	12,700		113	11,300	1,350	101		75-125
Silver	5.5		1.1	5.64	0.06	96.2		75-125
Sodium	11,100		56.4	11,300	72.6	97.4		75-125
Vanadium	78.8		2.3	45.1	36.1	94.7		75-125

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Matrix Spike (B6G2610-MS3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Zinc	542		2.3	113	465	68.0	#	75-125

Matrix Spike Dup (B6G2610-MSD1)

Source: 1607003-01 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit
Aluminum	5,640		11.0	110	2,850	NR	#	75-125	3.36	20
Barium	239		1.1	220	47.4	87.1		75-125	0.50	20
Beryllium	5.6		0.6	5.50	0.6	90.8		75-125	1.35	20
Cadmium	5.1		0.6	5.50	0.2	89.8		75-125	0.67	20
Calcium	51,700		16.5	11,000	41,900	88.8		75-125	11.0	20
Chromium	45.7		1.1	44.0	3.5	96.0		75-125	0.21	20
Cobalt	21.7		2.2	22.0	2.4	87.7		75-125	2.10	20
Copper	47.3		2.2	44.0	6.6	92.4		75-125	0.70	20
Iron	4,920		2.8	110	3,040	NR	#	75-125	17.0	20
Magnesium	10,800		16.5	11,000	495	93.3		75-125	0.98	20
Manganese	121		0.6	44.0	68.1	120		75-125	27.1 #	20
Nickel	43.6		2.2	44.0	5.9	85.7		75-125	1.53	20
Potassium	11,500		110	11,000	383	101		75-125	1.26	20
Silver	4.7		1.1	5.50	0.01	86.0		75-125	1.24	20
Sodium	10,600		55.0	11,000	88.3	95.2		75-125	0.43	20
Vanadium	56.3		2.2	44.0	13.0	98.3		75-125	2.62	20
Zinc	112		2.2	110	15.2	87.6		75-125	1.72	20

Matrix Spike Dup (B6G2610-MSD2)

Source: 1607007-02 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Matrix Spike Dup (B6G2610-MSD2)

Source: 1607007-02 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Aluminum	10,200		36.0	90.1	7,870	NR	#	75-125	2.03		20
Barium	278		3.6	180	120	87.4		75-125	2.07		20
Beryllium	4.7		0.5	4.51	0.7	89.0		75-125	1.03		20
Cadmium	4.5		0.5	4.51	0.7	83.6		75-125	0.59		20
Calcium	146,000		54.1	9,010	136,000	119		75-125	3.76		20
Chromium	95.1		3.6	36.0	61.4	93.6		75-125	7.79		20
Cobalt	25.2		7.2	18.0	10.4	82.2		75-125	4.37		20
Copper	45.2		1.8	36.0	15.8	81.7		75-125	0.46		20
Iron	11,600		9.0	90.1	10,500	NR	#	75-125	0.30		20
Magnesium	10,500		54.1	9,010	1,880	95.1		75-125	2.24		20
Manganese	1,520		1.8	36.0	1,530	NR	#	75-125	7.75		20
Nickel	53.0		7.2	36.0	20.1	91.2		75-125	0.87		20
Potassium	10,100		90.1	9,010	1,040	101		75-125	1.72		20
Silver	3.5		0.9	4.51		77.2		75-125	0.35		20
Sodium	8,910		45.1	9,010	122	97.5		75-125	1.88		20
Vanadium	64.7		1.8	36.0	35.2	82.0		75-125	9.76		20
Zinc	119		1.8	90.1	49.6	76.7		75-125	13.7		20

Matrix Spike Dup (B6G2610-MSD3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Aluminum	10,500		11.1	111	6,380	NR	#	75-125	6.87		20
Barium	319		1.1	222	141	80.5		75-125	2.85		20
Beryllium	5.7		0.6	5.55	0.5	94.7		75-125	0.07		20
Cadmium	44.7		0.6	5.55	82.2	NR	#	75-125	6.61		20
Calcium	96,100		16.6	11,100	85,100	99.1		75-125	1.98		20
Chromium	3,580		1.1	44.4	4,180	NR	#	75-125	22.6	#	20
Cobalt	30.1		2.2	22.2	10.7	87.6		75-125	2.10		20
Copper	253		2.2	44.4	249	6.93	#	75-125	49.9	#	20

Environmental Protection Agency

Region 6 Laboratory

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

Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Matrix Spike Dup (B6G2610-MSD3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Iron	21,800		2.8	111	27,400	NR	#	75-125	26.5	#	20
Magnesium	12,300		16.6	11,100	1,540	97.3		75-125	1.57		20
Manganese	900		0.6	44.4	788	251	#	75-125	8.72		20
Nickel	585		2.2	44.4	535	112		75-125	3.08		20
Potassium	12,900		111	11,100	1,350	104		75-125	1.75		20
Silver	5.0		1.1	5.55	0.06	88.5		75-125	9.82		20
Sodium	11,200		55.5	11,100	72.6	100		75-125	1.06		20
Vanadium	80.2		2.2	44.4	36.1	99.3		75-125	1.68		20
Zinc	445		2.2	111	465	NR	#	75-125	19.7		20

Reference (B6G2610-SRM1)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	84.4		9.1	115		73.4	47.6-152.2		
Barium	1.6		0.9	1.60		101	62.5-137.5		
Beryllium	4.4		0.5	4.90		89.6	61.2-138.7		
Cadmium	9.5		0.5	10.9		87.0	70.6-128.4		
Calcium	41,700		13.6	44,200		94.3	68.6-131.7		
Chromium	23.9		0.9	27.1		88.0	68.3-131.7		
Cobalt	32.3		1.8	37.4		86.3	64.7-135.3		
Copper	1,560		1.8	1,770		87.9	74.6-126		
Iron	5,540		2.3	6,470		85.6	66.2-133.8		
Magnesium	26,300		13.6	29,200		90.2	70.2-129.8		
Manganese	54.7		0.5	61.0		89.7	68.2-132		
Nickel	13.9		1.8	16.3		85.6	55.2-145.4		
Potassium	18.7		90.6	39.7		47.1	0-215		
Silver	5.1		0.9	5.90		86.8	45.8-154.2		
Sodium	14.5		45.3	72.5		20.0	0-298		
Vanadium	16.3		1.8	17.6		92.9	65.9-134.6		

Environmental Protection Agency

Region 6 Laboratory

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

Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B6G2610 **Sample Type: Solid**

Reference (B6G2610-SRM1)

Prepared: 7/26/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Zinc	39.1		1.8	47.5		82.3	43.2-156.6		

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6G2513 **Sample Type: Liquid**

Blank (B6G2513-BLK1)

Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Antimony	U		2.0
Arsenic	U		2.0
Cadmium	U		2.0
Copper	U		4.0
Lead	**2.3**		2.0
Selenium	U		4.0
Silver	U		2.0
Thallium	U		2.0

LCS (B6G2513-BS1)

Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	208		2.0	200	104	85-115
Arsenic	196		2.0	200	98.0	85-115
Cadmium	209		2.0	200	104	85-115
Copper	201		4.0	200	100	85-115
Lead	208		2.0	200	104	85-115
Selenium	202		4.0	200	101	85-115
Silver	201		2.0	200	100	85-115
Thallium	202		2.0	200	101	85-115

Matrix Spike (B6G2513-MS1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	211		2.0	200	0.2	106	70-130
Arsenic	201		2.0	200	2.0	99.6	70-130

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6G2513 **Sample Type: Liquid**

Matrix Spike (B6G2513-MS1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Cadmium	209		2.0	200	0.03	105	70-130
Copper	196		4.0	200	1.5	97.3	70-130
Lead	217		2.0	200	1.6	107	70-130
Selenium	205		4.0	200	2.4	101	70-130
Silver	193		2.0	200		96.7	70-130
Thallium	212		2.0	200	1.7	105	70-130

Matrix Spike (B6G2513-MS2)

Source: 1607007-07 Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	210		2.0	200	0.8	105	70-130
Arsenic	202		2.0	200	4.0	99.0	70-130
Cadmium	211		2.0	200	0.03	106	70-130
Copper	196		4.0	200	1.1	97.3	70-130
Lead	216		2.0	200	2.5	107	70-130
Selenium	206		4.0	200	1.4	102	70-130
Silver	196		2.0	200		97.8	70-130
Thallium	210		2.0	200	0.5	105	70-130

Matrix Spike Dup (B6G2513-MSD1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Antimony	211		2.0	200	0.2	106	70-130	0.00	20
Arsenic	201		2.0	200	2.0	99.5	70-130	0.13	20
Cadmium	209		2.0	200	0.03	104	70-130	0.26	20
Copper	192		4.0	200	1.5	95.2	70-130	2.13	20

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6G2513 **Sample Type: Liquid**

Matrix Spike Dup (B6G2513-MSD1)

Source: 1607003-04 Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Lead	214		2.0	200	1.6	106	70-130	1.04	20
Selenium	206		4.0	200	2.4	102	70-130	0.84	20
Silver	193		2.0	200		96.4	70-130	0.32	20
Thallium	210		2.0	200	1.7	104	70-130	0.70	20

Matrix Spike Dup (B6G2513-MSD2)

Source: 1607007-07 Prepared: 7/25/2016 Analyzed: 7/28/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Antimony	214		2.0	200	0.8	107	70-130	1.83	20
Arsenic	205		2.0	200	4.0	100	70-130	1.32	20
Cadmium	214		2.0	200	0.03	107	70-130	1.30	20
Copper	199		4.0	200	1.1	99.0	70-130	1.80	20
Lead	220		2.0	200	2.5	109	70-130	1.71	20
Selenium	207		4.0	200	1.4	103	70-130	0.72	20
Silver	198		2.0	200		98.8	70-130	0.98	20
Thallium	212		2.0	200	0.5	106	70-130	0.97	20

Environmental Protection Agency

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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6G2611 **Sample Type: Solid**

Blank (B6G2611-BLK1)

Prepared: 7/26/2016 Analyzed: 8/1/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Antimony	U		0.5
Arsenic	U		0.5
Lead	**0.9**		0.5
Selenium	U		1.0
Thallium	U		0.5

Blank (B6G2611-BLK2)

Prepared: 7/26/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Antimony	U		0.5
Arsenic	U		0.5
Lead	**1.2**		0.5
Selenium	U		1.0
Thallium	U		0.5

LCS (B6G2611-BS1)

Prepared: 7/26/2016 Analyzed: 8/1/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	20.4		0.5	20.0	102	85-115
Arsenic	19.8		0.5	20.0	99.2	85-115
Lead	21.2		0.5	20.0	106	85-115
Selenium	20.1		1.0	20.0	100	85-115
Thallium	19.7		0.5	20.0	98.7	85-115

LCS (B6G2611-BS2)

Environmental Protection Agency

Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6G2611 **Sample Type: Solid**

Prepared: 7/26/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	20.1		0.5	20.0	101	85-115
Arsenic	19.2		0.5	20.0	96.2	85-115
Lead	21.2		0.5	20.0	106	85-115
Selenium	19.5		1.0	20.0	97.4	85-115
Thallium	19.4		0.5	20.0	97.1	85-115

Matrix Spike (B6G2611-MS1)

Source: 1607003-01 Prepared: 7/26/2016 Analyzed: 8/1/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	9.2		0.5	21.8	0.07	42.1 #	75-125
Arsenic	20.6		0.5	21.8	0.5	92.6	75-125
Lead	31.3		0.5	21.8	7.3	111	75-125
Selenium	19.2		1.1	21.8	0.3	87.1	75-125
Thallium	22.3		0.5	21.8	0.1	102	75-125

Matrix Spike (B6G2611-MS2)

Source: 1607007-02 Prepared: 7/26/2016 Analyzed: 8/1/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	3.3		0.4	17.6	0.2	17.9 #	75-125
Arsenic	24.9		0.4	17.6	8.0	95.8	75-125
Lead	62.5		0.4	17.6	36.5	148 #	75-125
Selenium	14.9		0.9	17.6	0.5	82.2	75-125
Thallium	18.0		0.4	17.6	0.4	100	75-125

Matrix Spike (B6G2611-MS3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 8/2/2016

Targets

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6G2611 **Sample Type: Solid**

Matrix Spike (B6G2611-MS3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 8/2/2016

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Antimony	11.8		0.6	22.2	6.4	24.5	#	75-125
Arsenic	26.8		0.6	22.2	6.2	92.9		75-125
Lead	1,240		0.6	22.2	1,620	NR	#	75-125
Selenium	15.4		1.1	22.2	0.3	67.8	#	75-125
Thallium	22.8		0.6	22.2	0.3	101		75-125

Matrix Spike Dup (B6G2611-MSD1)

Source: 1607003-01 Prepared: 7/26/2016 Analyzed: 8/1/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit
Antimony	8.5		0.5	21.6	0.07	39.1	#	75-125	8.01	20
Arsenic	20.8		0.5	21.6	0.5	94.0		75-125	0.99	20
Lead	29.9		0.5	21.6	7.3	104		75-125	4.72	20
Selenium	20.5		1.1	21.6	0.3	93.3		75-125	6.29	20
Thallium	22.1		0.5	21.6	0.1	102		75-125	0.76	20

Matrix Spike Dup (B6G2611-MSD2)

Source: 1607007-02 Prepared: 7/26/2016 Analyzed: 8/1/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit
Antimony	3.3		0.4	17.7	0.2	17.6	#	75-125	0.54	20
Arsenic	25.6		0.4	17.7	8.0	99.1		75-125	2.94	20
Lead	52.7		0.4	17.7	36.5	91.3		75-125	17.1	20
Selenium	15.8		0.9	17.7	0.5	86.2		75-125	5.45	20
Thallium	18.9		0.4	17.7	0.4	105		75-125	5.15	20

Matrix Spike Dup (B6G2611-MSD3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 8/2/2016

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B6G2611 **Sample Type: Solid**

Matrix Spike Dup (B6G2611-MSD3)

Source: 1607008-07 Prepared: 7/26/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit
Antimony	9.6		0.6	22.2	6.4	14.7	#	75-125	20.2	#	20
Arsenic	26.6		0.6	22.2	6.2	91.8		75-125	0.91		20
Lead	1,170		0.6	22.2	1,620	NR	#	75-125	5.57		20
Selenium	15.4		1.1	22.2	0.3	68.1	#	75-125	0.46		20
Thallium	23.2		0.6	22.2	0.3	103		75-125	1.60		20

Reference (B6G2611-SRM1)

Prepared: 7/26/2016 Analyzed: 8/1/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Antimony	68.1		2.3	66.0		103	41.8-157.6		
Arsenic	248		2.3	253		98.1	60.8-139		
Lead	61.5		2.3	56.9		108	72.7-127.2		
Selenium	11.7		4.5	10.0		117	41-159		
Thallium	10.1		2.3	9.50		106	30.5-169.5		

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Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6G2705 **Sample Type: Solid**

Blank (B6G2705-BLK1)

Prepared: 8/1/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

Blank (B6G2705-BLK2)

Prepared: 8/1/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

Blank (B6G2705-BLK3)

Prepared: 8/1/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

LCS (B6G2705-BS1)

Prepared: 8/1/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Mercury	0.448		0.080	0.400	112	80-120

Matrix Spike (B6G2705-MS1)

Source: 1607003-01 Prepared: 8/1/2016 Analyzed: 8/2/2016

Targets

Environmental Protection Agency

Region 6 Laboratory

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Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6G2705 **Sample Type: Solid**

Matrix Spike (B6G2705-MS1)

Source: 1607003-01 Prepared: 8/1/2016 Analyzed: 8/2/2016

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	0.304		0.055	0.274	0.018	105	75-125

Matrix Spike Dup (B6G2705-MSD1)

Source: 1607003-01 Prepared: 8/1/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	0.309		0.054	0.271	0.018	107	75-125	1.60	20

Reference (B6G2705-SRM1)

Prepared: 8/1/2016 Analyzed: 8/2/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	2.26		0.684	3.59		63.0	51.8-148.2		

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Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6G2706 **Sample Type: Liquid**

Blank (B6G2706-BLK1)

Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

Blank (B6G2706-BLK2)

Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

Blank (B6G2706-BLK3)

Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

Blank (B6G2706-BLK4)

Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit
Mercury	U		0.200

LCS (B6G2706-BS1)

Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
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Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6G2706 **Sample Type: Liquid**

LCS (B6G2706-BS1)

Prepared: 8/2/2016 Analyzed: 8/3/2016

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Mercury	0.942		0.200	1.00	94.2	80-120

Matrix Spike (B6G2706-MS1)

Source: 1607003-04 Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	0.961		0.200	1.00		96.1	75-125

Matrix Spike (B6G2706-MS2)

Source: 1607007-07 Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	0.976		0.200	1.00		97.6	75-125

Matrix Spike Dup (B6G2706-MSD1)

Source: 1607003-04 Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	0.959		0.200	1.00		95.9	75-125	0.21	20

Matrix Spike Dup (B6G2706-MSD2)

Source: 1607007-07 Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Environmental Protection Agency

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Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6G2706 **Sample Type: Liquid**

Matrix Spike Dup (B6G2706-MSD2)

Source: 1607007-07 Prepared: 8/2/2016 Analyzed: 8/3/2016

Targets (Continued)

ANALYTE	Result µg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	0.981		0.200	1.00		98.1	75-125	0.51	20

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Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6H0109 **Sample Type: Solid**

Blank (B6H0109-BLK1)

Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

Blank (B6H0109-BLK2)

Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

Blank (B6H0109-BLK3)

Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

Blank (B6H0109-BLK4)

Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

Blank (B6H0109-BLK5)

Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

Environmental Protection Agency

Region 6 Laboratory

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

Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6H0109 **Sample Type: Solid**

Blank (B6H0109-BLK5)

Prepared: 8/4/2016 Analyzed: 8/4/2016

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit
Mercury	U		0.080

LCS (B6H0109-BS1)

Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Mercury	0.404		0.080	0.400	101	80-120

Matrix Spike (B6H0109-MS1)

Source: 1607008-01 Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	0.330		0.063	0.314	0.027	96.5	75-125

Matrix Spike (B6H0109-MS2)

Source: 1607008-06 Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Mercury	0.384		0.073	0.365	0.016	101	75-125

Matrix Spike Dup (B6H0109-MSD1)

Source: 1607008-01 Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

Environmental Protection Agency

Region 6 Laboratory

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

Metals by CLP ILMO5.3 - CVAAS - Quality Control

Batch: B6H0109 **Sample Type: Solid**

Matrix Spike Dup (B6H0109-MSD1)

Source: 1607008-01 Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets (Continued)

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	0.326		0.062	0.311	0.027	96.4	75-125	1.17	20

Matrix Spike Dup (B6H0109-MSD2)

Source: 1607008-06 Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg dry	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	0.406		0.073	0.365	0.016	107	75-125	5.56	20

Reference (B6H0109-SRM1)

Prepared: 8/4/2016 Analyzed: 8/4/2016

Targets

ANALYTE	Result mg/Kg wet	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Mercury	3.13		0.696	3.59		87.3	51.8-148.2		

Environmental Protection Agency

Region 6 Laboratory

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

INTERNAL STANDARD SUMMARY REPORT

Metals by CLP ILMO5.3 - ICP/MS

LAB NUMBER	ANALYSIS DATE	ISTD	ISTD %Rec (60-125)
B6G2513-BLK1	07/28/16 12:12	Bismuth	104
B6G2513-BLK1	07/28/16 12:12	Indium	101
B6G2513-BLK1	07/28/16 12:12	Scandium	102
B6G2513-BS1	07/28/16 12:18	Bismuth	101
B6G2513-BS1	07/28/16 12:18	Indium	100
B6G2513-BS1	07/28/16 12:18	Scandium	99
B6G2513-MS1	07/28/16 12:25	Bismuth	94
B6G2513-MS1	07/28/16 12:25	Indium	97
B6G2513-MS1	07/28/16 12:25	Scandium	96
B6G2513-MSD1	07/28/16 12:31	Bismuth	93
B6G2513-MSD1	07/28/16 12:31	Indium	97
B6G2513-MSD1	07/28/16 12:31	Scandium	97
B6G2513-MS2	07/28/16 12:38	Bismuth	94
B6G2513-MS2	07/28/16 12:38	Indium	98
B6G2513-MS2	07/28/16 12:38	Scandium	97
B6G2513-MSD2	07/28/16 12:44	Bismuth	93
B6G2513-MSD2	07/28/16 12:44	Indium	98
B6G2513-MSD2	07/28/16 12:44	Scandium	97
1607003-04	07/28/16 12:51	Bismuth	90
1607003-04	07/28/16 12:51	Indium	96
1607003-04	07/28/16 12:51	Scandium	98
1607003-05	07/28/16 12:58	Bismuth	90
1607003-05	07/28/16 12:58	Indium	97
1607003-05	07/28/16 12:58	Scandium	97
1607003-06	07/28/16 13:04	Bismuth	91
1607003-06	07/28/16 13:04	Indium	98
1607003-06	07/28/16 13:04	Scandium	97
1607007-06	07/28/16 13:10	Bismuth	91
1607007-06	07/28/16 13:10	Indium	97
1607007-06	07/28/16 13:10	Scandium	96

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1607007-07	07/28/16 13:29	Bismuth	93
1607007-07	07/28/16 13:29	Indium	98
1607007-07	07/28/16 13:29	Scandium	99
1607007-08	07/28/16 13:36	Bismuth	92
1607007-08	07/28/16 13:36	Indium	97
1607007-08	07/28/16 13:36	Scandium	97
1607008-12	07/28/16 13:42	Bismuth	91
1607008-12	07/28/16 13:42	Indium	96
1607008-12	07/28/16 13:42	Scandium	97
1607008-13	07/28/16 13:49	Bismuth	90
1607008-13	07/28/16 13:49	Indium	96
1607008-13	07/28/16 13:49	Scandium	97
1607008-14	07/28/16 13:55	Bismuth	85
1607008-14	07/28/16 13:55	Indium	90
1607008-14	07/28/16 13:55	Scandium	95
1607010-05	07/28/16 14:01	Bismuth	89
1607010-05	07/28/16 14:01	Indium	96
1607010-05	07/28/16 14:01	Scandium	96
1607010-06	07/28/16 14:08	Bismuth	90
1607010-06	07/28/16 14:08	Indium	96
1607010-06	07/28/16 14:08	Scandium	97
1607010-07	07/28/16 14:14	Bismuth	90
1607010-07	07/28/16 14:14	Indium	96
1607010-07	07/28/16 14:14	Scandium	96
1607010-08	07/28/16 14:20	Bismuth	90
1607010-08	07/28/16 14:20	Indium	96
1607010-08	07/28/16 14:20	Scandium	96
B6G2611-BLK1	08/01/16 11:48	Bismuth	99
B6G2611-BLK1	08/01/16 11:48	Indium	101
B6G2611-BS1	08/01/16 11:54	Bismuth	97
B6G2611-BS1	08/01/16 11:54	Indium	99
B6G2611-SRM1	08/01/16 12:01	Bismuth	105
B6G2611-SRM1	08/01/16 12:01	Indium	103

1607003-01	08/01/16 12:09	Bismuth	96
1607003-01	08/01/16 12:09	Indium	100
B6G2611-MS1	08/01/16 12:21	Bismuth	95
B6G2611-MS1	08/01/16 12:21	Indium	99
B6G2611-MSD1	08/01/16 12:28	Bismuth	95
B6G2611-MSD1	08/01/16 12:28	Indium	99
1607007-02	08/01/16 12:35	Bismuth	91
1607007-02	08/01/16 12:35	Indium	95
B6G2611-MS2	08/01/16 12:48	Bismuth	93
B6G2611-MS2	08/01/16 12:48	Indium	95
B6G2611-MSD2	08/01/16 12:54	Bismuth	92
B6G2611-MSD2	08/01/16 12:54	Indium	94
1607003-02	08/01/16 13:14	Bismuth	95
1607003-02	08/01/16 13:14	Indium	98
1607003-03	08/01/16 13:21	Bismuth	95
1607003-03	08/01/16 13:21	Indium	98
1607007-01	08/01/16 13:27	Bismuth	91
1607007-01	08/01/16 13:27	Indium	95
1607007-03	08/01/16 13:33	Bismuth	91
1607007-03	08/01/16 13:33	Indium	94
1607007-04	08/01/16 13:40	Bismuth	91
1607007-04	08/01/16 13:40	Indium	94
1607007-05	08/01/16 13:46	Bismuth	90
1607007-05	08/01/16 13:46	Indium	93
1607008-01	08/01/16 13:52	Bismuth	91
1607008-01	08/01/16 13:52	Indium	93
1607008-02	08/01/16 13:59	Bismuth	91
1607008-02	08/01/16 13:59	Indium	93
1607008-03	08/01/16 14:05	Bismuth	93
1607008-03	08/01/16 14:05	Indium	95
B6G2611-BLK2	08/02/16 10:20	Bismuth	106
B6G2611-BLK2	08/02/16 10:20	Indium	109

B6G2611-BS2	08/02/16 10:26	Bismuth	104
B6G2611-BS2	08/02/16 10:26	Indium	107
1607008-07	08/02/16 10:34	Bismuth	97
1607008-07	08/02/16 10:34	Indium	99
B6G2611-MS3	08/02/16 10:46	Bismuth	95
B6G2611-MS3	08/02/16 10:46	Indium	98
B6G2611-MSD3	08/02/16 10:53	Bismuth	95
B6G2611-MSD3	08/02/16 10:53	Indium	98
1607008-04	08/02/16 11:00	Bismuth	94
1607008-04	08/02/16 11:00	Indium	97
1607008-05	08/02/16 11:07	Bismuth	98
1607008-05	08/02/16 11:07	Indium	100
1607008-06	08/02/16 11:13	Bismuth	94
1607008-06	08/02/16 11:13	Indium	97
1607008-08	08/02/16 11:19	Bismuth	94
1607008-08	08/02/16 11:19	Indium	97
1607008-09	08/02/16 11:38	Bismuth	95
1607008-09	08/02/16 11:38	Indium	97
1607008-10	08/02/16 11:45	Bismuth	93
1607008-10	08/02/16 11:45	Indium	95
1607008-11	08/02/16 11:51	Bismuth	93
1607008-11	08/02/16 11:51	Indium	94
1607010-01	08/02/16 11:57	Bismuth	92
1607010-01	08/02/16 11:57	Indium	94
1607010-02	08/02/16 12:04	Bismuth	93
1607010-02	08/02/16 12:04	Indium	96
1607010-03	08/02/16 12:10	Bismuth	90
1607010-03	08/02/16 12:10	Indium	91
1607010-04	08/02/16 12:17	Bismuth	93
1607010-04	08/02/16 12:17	Indium	96

Environmental Protection Agency

Region 6 Laboratory

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

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.
B	Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
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
RPD	Relative Percent Difference
TCLP	Toxicity Characteristic Leaching Procedure
TCMX	Tetrachloro-meta-xylene
U	Undetected
VOA	Volatile Organic Analysis

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.

USEPA
DateShipped: 7/18/2016
CarrierName: FedEx
AirbillNo: 809499960326

CHAIN OF CUSTODY RECORD
Site #: 46321
Contact Name: Adrienne Love
Contact Phone: 8325267801

No: 6-071816-180359-0002
Cooler #: 2
Lab: US EPA Region 6
Lab Phone: 281-983-2137

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	MF1D18	SE-11	Total Metals + Mercury	Sediment	7/18/2016	1	8 oz glass jar	None	Y
	MF1D20	SE-13	Total Metals + Mercury	Sediment	7/18/2016	1	8 oz glass jar	None	N
	MF1D37	SW-11	Total Metals + Mercury	Surface Water	7/18/2016	1	1 L poly	HNO3 pH<2	Y
	MF1D38	SW-12	Total Metals + Mercury	Surface Water	7/18/2016	1	1 L poly	HNO3 pH<2	N
	MF1D39	SW-13	Total Metals + Mercury	Surface Water	7/18/2016	1	1 L poly	HNO3 pH<2	N
	MF1D19	SE-12	Total Metals + Mercury	Sediment	7/18/2016	1	8 oz glass jar	None	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	[illegible]	7/18/16/1801	[illegible]	7/19/16 9:15	

Temp Blank = 1°C

USEPA
DateShipped: 7/18/2016
CarrierName: FedEx
AirbillNo: 809524402129

CHAIN OF CUSTODY RECORD
Site #: 46321
Contact Name: Adrienne Love
Contact Phone: 8325267801

No: 6-071916-152519-0004
Cooler #: 2
Lab: US EPA Region 6
Lab Phone: 281-983-2137

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	MF1D33	SW-07	MF1D33	1070	Total Metals + Mercury	Surface Water	7/19/2016	1	1 L poly	HNO3 pH<2	N
	MF1D32	SW-06	MF1D32	1067	Total Metals + Mercury	Surface Water	7/19/2016	1	1 L poly	HNO3 pH<2	Y
	MF1D32	SW-06	MF1D32	1068	Total Metals + Mercury	Surface Water	7/19/2016	1	1 L poly	HNO3 pH<2	Y
	MF1D31	SW-05	MF1D31	1065	Total Metals + Mercury	Surface Water	7/19/2016	1	1 L poly	HNO3 pH<2	N
	MF1D17	SE-10	MF1D17	1034	Total Metals + Mercury	Sediment	7/19/2016	1	8 oz glass jar	None	N
	MF1D14	SE-07	MF1D14	1028	Total Metals + Mercury	Sediment	7/19/2016	1	8 oz glass jar	None	N
	MF1D13	SE-06	MF1D13	1026	Total Metals + Mercury	Soil	7/19/2016	1	8 oz glass jar	None	Y
	MF1D12	SE-05	MF1D12	1024	Total Metals + Mercury	Sediment	7/19/2016	1	8 oz glass jar	None	N
	MF1D05	SO-06	MF1D05	1010	Total Metals + Mercury	Soil	7/19/2016	1	8 oz glass jar	None	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Adrienne Love	7/19/16 18:32	J Cox	7/20/16 9:30	

Temp Blank = 3°C

USEPA
DateShipped: 7/18/2016
CarrierName: FedEx
AirbillNo: 809524402140

CHAIN OF CUSTODY RECORD
Site #: 46321
Contact Name: Adrienne Love
Contact Phone: 8325267801

No: 6-072016-155226-0006
Cooler #: 2
Lab: US EPA Region 6
Lab Phone: 281-983-2137

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	MF1D00	SO-01	Total Metals + Mercury	Soil	7/20/2016	1	8 oz glass jar	None	N
	MF1D01	SO-02	Total Metals + Mercury	Soil	7/20/2016	1	8 oz glass jar	None	N
	MF1D02	SO-03	Total Metals + Mercury	Soil	7/20/2016	1	8 oz glass jar	None	Y
	MF1D03	SO-04	Total Metals + Mercury	Soil	7/20/2016	1	8 oz glass jar	None	N
	MF1D04	SO-05	Total Metals + Mercury	Soil	7/20/2016	1	8 oz glass jar	None	N
	MF1D06	SO-07	Total Metals + Mercury	Soil	7/20/2016	1	8 oz glass jar	None	N
	MF1D07	SO-08	Total Metals + Mercury	Soil	7/20/2016	1	8 oz glass jar	None	N
	MF1D08	SE-01	Total Metals + Mercury	Sediment	7/20/2016	1	8 oz glass jar	None	N
	MF1D09	SE-02	Total Metals + Mercury	Sediment	7/20/2016	1	8 oz glass jar	None	N
	MF1D10	SE-03	Total Metals + Mercury	Sediment	7/20/2016	1	8 oz glass jar	None	N
	MF1D11	SE-04	Total Metals + Mercury	Sediment	7/20/2016	1	8 oz glass jar	None	N
	MF1D27	SW-01	Total Metals + Mercury	Surface Water	7/20/2016	1	1 L poly	HNO3 pH<2	N
	MF1D29	SW-03	Total Metals + Mercury	Surface Water	7/20/2016	1	1 L poly	HNO3 pH<2	N
	MF1D30	SW-04	Total Metals + Mercury	Surface Water	7/20/2016	1	1 L poly	HNO3 pH<2	N

Special Instructions: Samples SO-03, SO-04, SO-05, and SO-08 may have high concentrations.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Adrienne Love	7/20/16 16:05	J Cross	7/21/16 9:00	

Temp Blank = 3°C

USEPA
DateShipped: 7/18/2016
CarrierName: FedEx
AirbillNo: 810257801830

CHAIN OF CUSTODY RECORD
Site #: 46321
Contact Name: Adrienne Love
Contact Phone: 8325267801

No: 6-072116-135806-0008
Cooler #: 2
Lab: US EPA Region 6
Lab Phone: 281-983-2137

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Lab QC
	MF1D41	SW-15	Total Metals + Mercury	Surface Water	7/21/2016	1	1 L poly	HNO3 pH<2	N
	MF1D40	SW-14	Total Metals + Mercury	Surface Water	7/21/2016	1	1 L poly	HNO3 pH<2	N
	MF1D35	SW-09	Total Metals + Mercury	Surface Water	7/21/2016	1	1 L poly	HNO3 pH<2	N
	MF1D34	SW-08	Total Metals + Mercury	Surface Water	7/21/2016	1	1 L poly	HNO3 pH<2	N
	MF1D22	SE-15	Total Metals + Mercury	Sediment	7/21/2016	1	8 oz glass jar	None	N
	MF1D21	SE-14	Total Metals + Mercury	Sediment	7/21/2016	1	8 oz glass jar	None	N
	MF1D16	SE-09	Total Metals + Mercury	Sediment	7/21/2016	1	8 oz glass jar	None	N
	MF1D15	SE-08	Total Metals + Mercury	Sediment	7/21/2016	1	8 oz glass jar	None	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Adrienne Love	7/21/16 14:00	S Cloer	7/22/16 9:20	

Temp Blank = 3°C