



Wednesday, July 20, 2016

Dave Todak
CH2M HILL Plateau Remediation Company
2420 Stevens Center
Richland, WA 99352

Re: ALS Workorder: 1607008
Project Name: 100-KR-4 Long Term & Interim Action Monitoring - Soil
Project Number: F16-037

Dear Mr. Todak:

One soil sample was received from CH2M HILL Plateau Remediation Company, on 7/1/2016. The sample was scheduled for the following analysis:

Metals

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Julie Ellingson".

ALS Environmental
Julie Ellingson
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1607008

Client Name: CH2M HILL Plateau Remediation Company

Client Project Name: 100-KR-4 Long Term & Interim Action Monitoring - Soil

Client Project Number: F16-037

Client PO Number: BOA 54854

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B35LC0	1607008-1		SOIL	30-Jun-16	8:40

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		PAGE 1 OF 1	
COLLECTOR	Curt Hoffman CHPRC	TELEPHONE NO.	373-5586	PRICE CODE	8C
SAMPLING LOCATION	C9595 SAMPLE I-005	PROJECT COORDINATOR	TODAK, D	AIR QUALITY	<input type="checkbox"/>
ICE CHEST NO.	GWS-446	SAF NO.	F16-037	METHOD OF SHIPMENT	FEDERAL EXPRESS
SHIPPED TO	ALS Environmental Ft. Collins	COA	300085	ORIGINAL	
FIELD LOGBOOK NO.		ACTUAL SAMPLE DEPTH		BILL OF LADING/AIR BILL NO.	
HNF-N-645-6/4		75.13' - 77.63'		1776450347078	
OFFSITE PROPERTY NO.		PROJECT DESIGNATION		METHOD OF SHIPMENT	
6790		100-KR-4 Long Term & Interim Action Monitoring - Soil		FEDERAL EXPRESS	

PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS	SAMPLE DATE	SAMPLE TIME
None	6 Months	G/P	1	250mL	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	6/30/16	0840

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM Curt Hoffman CHPRC	RECEIVED BY/STORED IN J.C. Hoffmann CHPRC	JUN 30 2016 1030
RELINQUISHED BY/REMOVED FROM J.C. Hoffmann CHPRC	RECEIVED BY/STORED IN SSU-1	JUN 30 2016 1030
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	RECEIVED BY/STORED IN Janelle Zunker CHPRC	JUN 30 2016 1050
RELINQUISHED BY/REMOVED FROM J.C. Hoffmann CHPRC	RECEIVED BY/STORED IN FEDEX	JUN 30 2016 1400
RELINQUISHED BY/REMOVED FROM J.C. Hoffmann CHPRC	RECEIVED BY/STORED IN Mr. Jm Rebecca Novak	JUN 30 2016 1600
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME
LABORATORY SECTION	RECEIVED BY	DATE/TIME
LABORATORY SECTION	DISPOSAL METHOD	DATE/TIME

SPECIAL INSTRUCTIONS
(1) 6020_METALS_ICPMS: COMMON {Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Manganese, Vanadium, Zinc}; 7471_MERCURY_CV: COMMON (SOLIDS);



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC

Workorder No: 1607008

Project Manager: JE

Initials: RW Date: 7/11/16

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	NONE	<input checked="" type="radio"/> YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ___ < green pea ___ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ___ dusting ___ moderate ___ heavy	<input checked="" type="radio"/> N/A	YES	NO
16. Were the samples shipped on ice?		YES	<input checked="" type="radio"/> NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4		YES	<input checked="" type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>44.0</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>10</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 7/11/16

1607008

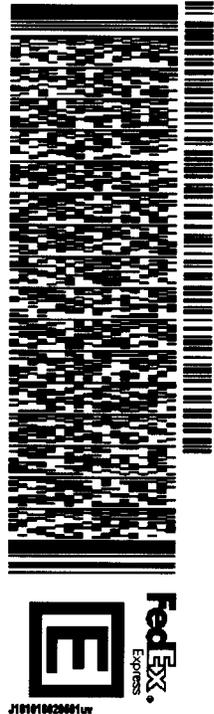
ORIGIN ID: PSCA (509) 373-3580
JANELLE ZUNKER
CH2M
6289 LATAH ST.
RICHLAND, WA 99354
UNITED STATES US

SHIP DATE: 30JUN16
ACTWGT: 13.00 LB
CAD: 107066051/INET3730
BILL THIRD PARTY

TO JULIE ELLINGSON
ALS GLOBAL
225 COMMERCE DRIVE

10-2

FORT COLLINS CO 80524
(970) 490-1511 REF: 6790
NV DEPT



540J15CBD/727F

TRK# 7766 5034 7078
0201
FRI - 01 JUL 10:30A
PRIORITY OVERNIGHT
DSR

XH FTCA
80524
CO-US DEN



After printing this label:

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Metals Case Narrative

CH2M HILL Plateau Remediation Company

100-KR-4 Long Term & Interim Action Monitoring - Soil – F16-037

Work Order Number: 1607008

1. This report consists of 1 soil sample.
2. The sample was received intact at ambient temperature by ALS on 07/01/16.
3. The sample was prepared and analyzed based on SW-846, 3rd Edition procedures.

For analysis by ICP-MS, the sample was digested following method 3050B and the current revision of SOP 806.

For analysis by Cold Vapor AA (CVAA), the sample was digested following method 7471A and the current revision of SOP 812.

4. Analysis by ICP-MS followed method 6020A and the current revision of SOP 827.

Analysis by CVAA followed method 7471A and the current revision of SOP 812.

5. All standards and solutions are NIST traceable and were used within their recommended shelf life.
6. The sample was prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

7. General quality control procedures.
 - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
 - The preparation (method) blank associated with each digestion batch was below the reporting limit for the requested analytes. Lead has results above the MDL. Sample results have been compared to the blank results.
 - All laboratory control sample criteria were met.



- All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.
- The interference check samples associated with Method 6020A were analyzed.

8. Matrix specific quality control procedures.

Sample 1606561-1 was designated as the quality control sample for each analysis. Results for the shared quality control samples are included at the client's request.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met with the following exception:

<u>Analyte</u>	<u>Sample ID</u>
Antimony	1606561-1MS/MSD

The native sample result is flagged for matrix spike failure and an analytical post spike was performed. The result of the spike was acceptable indicating that the matrix was not significantly affecting quantitation of this analyte.

- Matrix spike recoveries could not be evaluated for the following analytes:

<u>Analyte</u>	<u>Sample ID</u>
Manganese	1606561-1
Vanadium	1606561-1

The concentrations of these analytes in the native sample were greater than four times the concentration of matrix spike added during the digestion. When sample concentration is that much greater than the spike added, spike recoveries may not be accurate. The laboratory control sample indicates that the digestion and analysis were in control.

- A serial dilution was analyzed with the ICPMS batch. All acceptance criteria were met.

9. It is a standard practice that samples for ICP-MS are analyzed at a dilution.



The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Jill Latelle
Jill Latelle
Inorganics Primary Data Reviewer

7/14/16
Date

Audie Elliza
Inorganics Final Data Reviewer

7/20/16
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used as needed by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a "U" is entered. For samples, negative values are reported as non-detects ("U" flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is "B" flagged.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.
 - C - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was $\leq 20X$ the blank concentration.
 - D - Analyte was reported at a secondary dilution factor, typically $DF > 1$ (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.

Total ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037

Field ID:	B35LC0
Lab ID:	1607008-1

Sample Matrix: SOIL

% Moisture: 3.0

Date Collected: 30-Jun-16

Date Extracted: 05-Jul-16

Date Analyzed: 13-Jul-16

Prep Method: SW3050 Rev B

Prep Batch: IP160705-1

QCBatchID: IP160705-1-3

Run ID: IM160713-10A4

Cleanup: NONE

Basis: Dry Weight

File Name: 030SMPL_

Analyst: Brent A. Stanfield

Sample Aliquot: 1.03 g

Final Volume: 100 ml

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-36-0	ANTIMONY	10	51	100	12	B	N
7440-47-3	CHROMIUM	10	8500	1000	82		
7440-50-8	COPPER	10	110000	1000	110		
7439-92-1	LEAD	10	6400	200	21		
7439-96-5	MANGANESE	10	270000	200	26		
7782-49-2	SELENIUM	10	500	1000	66	B	
7440-62-2	VANADIUM	10	40000	500	58		
7440-66-6	ZINC	10	85000	10000	700		

Data Package ID: IM1607008-1

Total MERCURY

Method SW7471A

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: CH2M HILL Plateau Remediation Company
Client Project ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037
Work Order Number: 1607008 **Final Volume:** 100 ml
Reporting Basis: Dry Weight **Matrix:** SOIL
Analyst: Nathan A. Quatier **Result Units:** UG/KG

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Flag	Sample Aliquot
B35LC0	1607008-1	6/30/2016	7/12/2016	07/12/2016	2.954	1	5.9	31	3.4	B	0.656 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *HG1607008-1*

7/20/2016
ALS1607008

ICPMS Metals

Method SW6020A

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037

Lab ID: IP160705-1MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05-Jul-16

Date Analyzed: 11-Jul-16

Prep Batch: IP160705-1

QCBatchID: IP160705-1-3

Run ID: IM160711-11A9

Cleanup: NONE

Basis: N/A

File Name: 105SMPL_

Sample Aliquot: 1 g

Final Volume: 100 ml

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-47-3	CHROMIUM	10	82	1000	82	U	
7440-50-8	COPPER	10	110	1000	110	U	
7439-92-1	LEAD	10	25	200	21	B	
7439-96-5	MANGANESE	10	26	200	26	U	
7782-49-2	SELENIUM	10	66	1000	66	U	
7440-62-2	VANADIUM	10	58	500	58	U	
7440-66-6	ZINC	10	700	10000	700	U	

Data Package ID: IM1607008-1

Date Printed: Thursday, July 14, 2016

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ALS1607008

ICPMS Metals

Method SW6020A

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037

Lab ID: IP160705-1MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05-Jul-16

Date Analyzed: 13-Jul-16

Prep Batch: IP160705-1

QCBatchID: IP160705-1-3

Run ID: IM160713-10A4

Cleanup: NONE

Basis: N/A

File Name: 017SMPL_

Sample Aliquot: 1 g

Final Volume: 100 ml

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-36-0	ANTIMONY	10	12	100	12	U	

Data Package ID: IM1607008-1

Date Printed: Thursday, July 14, 2016

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ICPMS Metals

Method SW6020A

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037

Lab ID: IM160705-1LCS

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 07/05/2016

Date Analyzed: 07/13/2016

Prep Method: SW3050B

Prep Batch: IP160705-1

QCBatchID: IP160705-1-3

Run ID: IM160713-10A4

Cleanup: NONE

Basis: N/A

File Name: 018SMPL_

Sample Aliquot: 1 g

Final Volume: 100 ml

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-36-0	ANTIMONY	3000	2950	100		98	80 - 120%
7440-47-3	CHROMIUM	50000	50700	1000		101	80 - 120%
7440-50-8	COPPER	100000	107000	1000		107	80 - 120%
7439-92-1	LEAD	5000	5350	200		107	80 - 120%
7439-96-5	MANGANESE	10000	11600	200		116	80 - 120%
7782-49-2	SELENIUM	10000	11000	1000		110	80 - 120%
7440-62-2	VANADIUM	10000	11200	500		112	80 - 120%
7440-66-6	ZINC	200000	210000	10000		105	80 - 120%

Data Package ID: IM1607008-1

ICPMS Metals

Method SW6020A

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-0

Field ID: SHARED QC
LabID: 1606561-1MS

Sample Matrix: SOIL
% Moisture: 4.7
Date Collected: 28-Jun-16
Date Extracted: 05-Jul-16
Date Analyzed: 13-Jul-16
Prep Method: SW3050 Rev B

Prep Batch: IP160705-1
QCBatchID: IP160705-1-3
Run ID: IM160713-10A4
Cleanup: NONE
Basis: Dry Weight

Sample Aliquot: 1.042 g
Final Volume: 100 ml
Result Units: UG/KG
File Name: 024SMPL_

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7440-36-0	ANTIMONY	12	B	2010	N	101	3020	66	75 - 125%
7440-47-3	CHROMIUM	2400		58400		1010	50300	111	75 - 125%
7440-50-8	COPPER	19000		132000		1010	101000	112	75 - 125%
7439-92-1	LEAD	1800		7520		201	5030	113	75 - 125%
7439-96-5	MANGANESE	340000		359000		201	10100	178	75 - 125%
7782-49-2	SELENIUM	930	B	10800		1010	10100	98	75 - 125%
7440-62-2	VANADIUM	86000		99100		503	10100	128	75 - 125%
7440-66-6	ZINC	54000		272000		10100	201000	108	75 - 125%

Field ID: SHARED QC
LabID: 1606561-1MSD

Sample Matrix: SOIL
% Moisture: 4.7
Date Collected: 28-Jun-16
Date Extracted: 05-Jul-16
Date Analyzed: 13-Jul-16
Prep Method: SW3050 Rev B

Prep Batch: IP160705-1
QCBatchID: IP160705-1-3
Run ID: IM160713-10A4
Cleanup: NONE
Basis: Dry Weight

Sample Aliquot: 1.048 g
Final Volume: 100 ml
Result Units: UG/KG
File Name: 025SMPL_

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7440-36-0	ANTIMONY	2030	N	3000	67	100	20	1
7440-47-3	CHROMIUM	55300		50000	106	1000	20	5
7440-50-8	COPPER	129000		100000	110	1000	20	2
7439-92-1	LEAD	7360		5000	111	200	20	2
7439-96-5	MANGANESE	372000		10000	313	200	20	4
7782-49-2	SELENIUM	11000		10000	100	1000	20	1
7440-62-2	VANADIUM	98500		10000	123	500	20	1
7440-66-6	ZINC	267000		200000	106	10000	20	2

Data Package ID: IM1607008-1

7/20/2016
ALS1607008

ICPMS Metals

Method SW6020

Analytical Spike Sample Recovery

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037

Field ID: SHARED QC

LabID: 1606561-1A

Run ID: IM160713-10A4

Date Analyzed: 7/13/2016

Result Units: ug/l

Target Analyte	Sample Result	Samp Qual	PS Result	PS Qual	Spike Added	PS % Rec.	Control Limits
ANTIMONY	0.0120	B	3.07		3	102	75 - 125%

Data Package ID: *im1607008-1*

Date Printed: Thursday, July 14, 2016

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ALS1607008

Mercury

Method SW7471A

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037

Lab ID: HG160712-1MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12-Jul-16

Date Analyzed: 12-Jul-16

Prep Batch: HG160712-1

QCBatchID: HG160712-1-1

Run ID: HG160712-1A2

Cleanup: NONE

Basis: N/A

File Name: HG160712-1

Sample Aliquot: 0.6 g

Final Volume: 100 ml

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7439-97-6	MERCURY	1	3.6	33	3.6	U	

Data Package ID: HG1607008-1

Date Printed: Thursday, July 14, 2016

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7/20/2016
ALS1607008

Mercury

Method SW7471A Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1607008

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-037

Lab ID: HG160712-1LCS

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 07/12/2016

Date Analyzed: 07/12/2016

Prep Method: METHOD

Prep Batch: HG160712-1

QCBatchID: HG160712-1-1

Run ID: HG160712-1A2

Cleanup: NONE

Basis: N/A

File Name: HG160712-1

Sample Aliquot: 0.6 g

Final Volume: 100 ml

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7439-97-6	MERCURY	167	168	33.3		101	80 - 120%

Data Package ID: HG1607008-1

7/20/2016
ALS1607008

Mercury

Method SW7471A Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1607008
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: 100-KR-4 Long Term & Interim Action Monitoring - Soil F16-0

Field ID: SHARED QC
LabID: 1606561-1MS

Sample Matrix: SOIL
% Moisture: 4.7
Date Collected: 28-Jun-16
Date Extracted: 12-Jul-16
Date Analyzed: 12-Jul-16
Prep Method: METHOD

Prep Batch: HG160712-1
QCBatchID: HG160712-1-1
Run ID: HG160712-1A2
Cleanup: NONE
Basis: Dry Weight

Sample Aliquot: 0.662 g
Final Volume: 100 ml
Result Units: UG/KG
File Name: HG160712-1

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7439-97-6	MERCURY	4.8	B	311		31.7	317	97	80 - 120%

Field ID: SHARED QC
LabID: 1606561-1MSD

Sample Matrix: SOIL
% Moisture: 4.7
Date Collected: 28-Jun-16
Date Extracted: 12-Jul-16
Date Analyzed: 12-Jul-16
Prep Method: METHOD

Prep Batch: HG160712-1
QCBatchID: HG160712-1-1
Run ID: HG160712-1A2
Cleanup: NONE
Basis: Dry Weight

Sample Aliquot: 0.659 g
Final Volume: 100 ml
Result Units: UG/KG
File Name: HG160712-1

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7439-97-6	MERCURY	326		318	101	31.8	20	5

Data Package ID: HG1607008-1