



Sunday, May 29, 2016

Karen Waters-Husted  
CH2M HILL Plateau Remediation Company  
2420 Stevens Center  
Richland, WA 99352

Re: ALS Workorder: 1605156  
Project Name: 200 UP1, MAY 2016  
Project Number: I16-021

Dear Ms. Waters-Husted:

Two water samples were received from CH2M HILL Plateau Remediation Company, on 5/7/2016. The samples were 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,

  
ALS Environmental  
Julie Ellingson  
Project Manager

# ALS Environmental -- FC

## Sample Number(s) Cross-Reference Table

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OrderNum: 1605156

Client Name: CH2M HILL Plateau Remediation Company

Client Project Name: 200 UP1, MAY 2016

Client Project Number: I16-021

Client PO Number: BOA 54854

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B34XX0	1605156-1		WATER	06-May-16	11:15
B34XW7	1605156-2		WATER	06-May-16	11:15

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I16-021-004**  
Page 1 of 1

Collector: **J.R. Aguilar/CHPRC** Telephone No. **509-376-4650**  
 SAF No. **116-021** Purchase Order/Charge Code **300071**  
 Project Title **200 UPL, MAY 2016** Ice Chest No. **GWS-292**  
 Shipped To (Lab) **ALS Environmental Ft. Collins** Bill of Lading/Air Bill No. **7762 9525 0123**  
 Protocol **CERCLA** Offsite Property No. **PTR 6616**

**PRIORITY** SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes  No   
 N/A Special Handling: N/A

Sample No	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B34XX0	Y	5-6-16	1115	1x500-mL G/P	6020_METALS_ICPMS: GW 01	6 Months	HNO3 to pH <2
B34XW7	N	5-6-16	1115	1x500-mL G/P	6020_METALS_ICPMS: GW 01	6 Months	HNO3 to pH <2

**POSSIBLE SAMPLE HAZARDS/REMARKS**

\*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
J.R. Aguilar/CHPRC			MAY 06 2016 1133	Troy Bacon	CHPRC		MAY 06 2016 1133	S - Soil DS - Drum Solids SE - Sediment DL - Drum Liquids SO - Solid T - Tissue SL - Sludge W - Wipe W - Water L - Liquid O - Oil V - Vegetation A - Air X - Other
Troy Bacon	CHPRC		MAY 06 2016 1400	Received By	<b>FEDEX</b>			
Fedex				Received By			5/7/16 1035	

Disposal Method (e.g., Return to customer, per lab procedure, used in process) \_\_\_\_\_ Disposed By \_\_\_\_\_ Date/Time \_\_\_\_\_

5/29/2016

ALS1605156

ALS Environmental - Fort Collins  
CONDITION OF SAMPLE UPON RECEIPT FORM



Client: CHPRC

Workorder No: 1605156

Project Manager: JE

Initials: EW

Date: 5/17/16

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)	N/A	<input checked="" type="radio"/> 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 of sediment: ___ dusting ___ moderate ___ heavy	Amount N/A	YES	<input checked="" type="radio"/> 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	RAD ONLY	YES	<input checked="" type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>AM13</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>11</u>			
Background µR/hr reading: <u>12</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] 5/10/16

ORIGIN ID: 98CA (509) 528-2763  
FRANK HALL  
612M  
8287 LATPAH ST.  
RICHLAND, WA 99354  
UNITED STATES US

SHIP DATE: 06MAY16  
ACTWGT: 25.00 LB  
CAD: 107066057/NET3730  
BILL THIRD PARTY

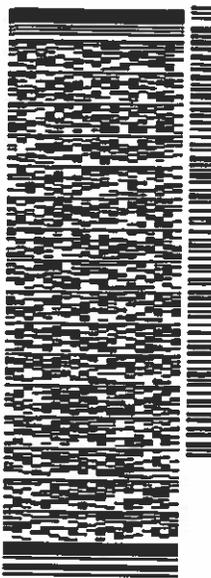
1605156

TO JULIE ELLINGSON  
ALS GLOBAL  
225 COMMERCE DRIVE

11-1

FORT COLLINS CO 80524  
(970) 490-1511 REF: GWS-426 (6311)

PO. DEPT.



J181616030091m

540J16323/727F

TRK# 7762 8525 0123  
0201  
SATURDAY 12:00P  
PRIORITY OVERNIGHT  
DSR

X0 FTCA  
80524  
co-us DEN



After printing this label:

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## Metals Case Narrative

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### **CH2M HILL Plateau Remediation Company**

200 UP1, MAY 2016 – I16-021

Work Order Number: 1605156

1. This report consists of 2 water samples for total recoverable or dissolved metals.
2. The samples were received intact at ambient temperature by ALS on 05/07/16.
3. The sample for dissolved metals was filtered prior to receipt. All samples had a pH less than 2 upon receipt.
4. The samples were prepared and analyzed based on SW-846, 3<sup>rd</sup> Edition procedures.

For analysis by ICP-MS, the samples were digested following method 3005A and the current revision of SOP 806.

5. Analysis by ICP-MS followed method 6020A and the current revision of SOP 827.
6. All standards and solutions are NIST traceable and were used within their recommended shelf life.
7. The samples were prepared and analyzed within the established hold time.

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

8. General quality control procedures.
  - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in this digestion batch.
  - The preparation (method) blank associated with this 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.

9. Matrix specific quality control procedures.

Sample 1605156-1 was designated as the quality control sample for this analysis.

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.

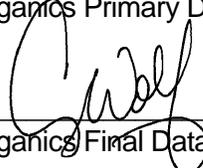
- A matrix spike and matrix spike duplicate were digested and analyzed with this batch. All acceptance criteria for accuracy were met.
- A sample duplicate and matrix spike duplicate were digested and analyzed with this batch. All acceptance criteria for precision were met.
- A serial dilution was analyzed with this ICP batch. All acceptance criteria were met.

10. It is a standard practice that samples for ICP-MS are analyzed at a dilution. The 10X factor can be considered an artifact of the prep and does not indicate a secondary dilution and is therefore not flagged as 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  
Inorganics Primary Data Reviewer

5/26/16  
Date

  
\_\_\_\_\_  
Inorganics Final Data Reviewer

5/29/16  
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  $\leq 5X$  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.

# Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1605156

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200 UP1, MAY 2016 I16-021

Field ID:	B34XX0
Lab ID:	1605156-1

Sample Matrix: WATER  
% Moisture: N/A  
Date Collected: 06-May-16  
Date Extracted: 17-May-16  
Date Analyzed: 18-May-16  
Prep Method: SW3005 Rev A

Prep Batch: IP160517-1  
QCBatchID: IP160517-1-2  
Run ID: IM160518-10A2  
Cleanup: NONE  
Basis: As Received  
File Name: 050SMPL\_

Analyst: Brent A. Stanfield  
Sample Aliquot: 50 ml  
Final Volume: 50 ml  
Result Units: UG/L  
Clean DF: 1

Analysis ReqCode: 6020\_METALS\_I

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	14	100	14	U	
7440-36-0	ANTIMONY	10	0.36	1	0.084	B	
7440-38-2	ARSENIC	10	2.1	2	0.18		
7440-39-3	BARIUM	10	54	5	0.23		
7440-41-7	BERYLLIUM	10	0.41	0.5	0.27	B	
7440-43-9	CADMIUM	10	0.099	2	0.099	U	
7440-47-3	CHROMIUM	10	110	10	1.1		
7440-48-4	COBALT	10	0.23	5	0.07	B	
7440-50-8	COPPER	10	1.2	8	1.1	B	
7439-92-1	LEAD	10	0.35	2	0.16	BC	
7439-96-5	MANGANESE	10	0.63	5	0.3	B	
7439-98-7	MOLYBDENUM	10	6.6	2	0.41		
7440-02-0	NICKEL	10	4.2	20	4.2	U	
7782-49-2	SELENIUM	10	3.5	10	0.66	B	
7440-22-4	SILVER	10	0.039	0.5	0.039	U	
7440-24-6	STRONTIUM	10	160	5	0.31		
7440-28-0	THALLIUM	10	0.02	0.1	0.014	B	
7440-29-1	THORIUM	10	0.032	0.2	0.032	U	
7440-31-5	TIN	10	7.4	10	1.3	B	
7440-61-1	URANIUM	10	1.5	0.1	0.027		
7440-66-6	ZINC	10	9.1	100	9.1	U	

Data Package ID: im1605156-1

# Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1605156

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200 UP1, MAY 2016 I16-021

Field ID:	B34XW7
Lab ID:	1605156-2

Sample Matrix: WATER  
% Moisture: N/A  
Date Collected: 06-May-16  
Date Extracted: 17-May-16  
Date Analyzed: 18-May-16  
Prep Method: SW3005 Rev A

Prep Batch: IP160517-1  
QCBatchID: IP160517-1-2  
Run ID: IM160518-10A2  
Cleanup: NONE  
Basis: As Received  
File Name: 055SMPL\_

Analyst: Brent A. Stanfield  
Sample Aliquot: 50 ml  
Final Volume: 50 ml  
Result Units: UG/L  
Clean DF: 1

Analysis ReqCode: 6020\_METALS\_I

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	22	100	14	B	
7440-36-0	ANTIMONY	10	0.1	1	0.084	B	
7440-38-2	ARSENIC	10	2.1	2	0.18		
7440-39-3	BARIUM	10	51	5	0.23		
7440-41-7	BERYLLIUM	10	0.44	0.5	0.27	B	
7440-43-9	CADMIUM	10	0.099	2	0.099	U	
7440-47-3	CHROMIUM	10	100	10	1.1		
7440-48-4	COBALT	10	0.08	5	0.07	B	
7440-50-8	COPPER	10	1.1	8	1.1	U	
7439-92-1	LEAD	10	0.49	2	0.16	BC	
7439-96-5	MANGANESE	10	0.79	5	0.3	B	
7439-98-7	MOLYBDENUM	10	6.5	2	0.41		
7440-02-0	NICKEL	10	4.2	20	4.2	U	
7782-49-2	SELENIUM	10	2.8	10	0.66	B	
7440-22-4	SILVER	10	0.43	0.5	0.039	B	
7440-24-6	STRONTIUM	10	160	5	0.31		
7440-28-0	THALLIUM	10	0.02	0.1	0.014	B	
7440-29-1	THORIUM	10	0.032	0.2	0.032	U	
7440-31-5	TIN	10	6.1	10	1.3	B	
7440-61-1	URANIUM	10	1.4	0.1	0.027		
7440-66-6	ZINC	10	9.1	100	9.1	U	

Data Package ID: im1605156-1

**5/29/2016**  
**ALS1605156**  
**ICPMS Metals**

**Method SW6020A**  
**Method Blank**

**Lab Name:** ALS Environmental -- FC

**Work Order Number:** 1605156

**Client Name:** CH2M HILL Plateau Remediation Company

**ClientProject ID:** 200 UP1, MAY 2016 I16-021

**Lab ID:** IP160517-1MB

**Sample Matrix:** WATER

**% Moisture:** N/A

**Date Collected:** N/A

**Date Extracted:** 17-May-16

**Date Analyzed:** 18-May-16

**Prep Batch:** IP160517-1

**QCBatchID:** IP160517-1-2

**Run ID:** IM160518-10A2

**Cleanup:** NONE

**Basis:** N/A

**File Name:** 048SMPL\_

**Sample Aliquot:** 50 ml

**Final Volume:** 50 ml

**Result Units:** UG/L

**Clean DF:** 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	14	100	14	U	
7440-36-0	ANTIMONY	10	0.084	1	0.084	U	
7440-38-2	ARSENIC	10	0.18	2	0.18	U	
7440-39-3	BARIUM	10	0.23	5	0.23	U	
7440-41-7	BERYLLIUM	10	0.27	0.5	0.27	U	
7440-43-9	CADMIUM	10	0.099	2	0.099	U	
7440-47-3	CHROMIUM	10	1.1	10	1.1	U	
7440-48-4	COBALT	10	0.07	5	0.07	U	
7440-50-8	COPPER	10	1.1	8	1.1	U	
7439-92-1	LEAD	10	0.31	2	0.16	B	
7439-96-5	MANGANESE	10	0.3	5	0.3	U	
7439-98-7	MOLYBDENUM	10	0.41	2	0.41	U	
7440-02-0	NICKEL	10	4.2	20	4.2	U	
7782-49-2	SELENIUM	10	0.66	10	0.66	U	
7440-22-4	SILVER	10	0.039	0.5	0.039	U	
7440-24-6	STRONTIUM	10	0.31	5	0.31	U	
7440-28-0	THALLIUM	10	0.014	0.1	0.014	U	
7440-29-1	THORIUM	10	0.032	0.2	0.032	U	
7440-31-5	TIN	10	1.3	10	1.3	U	
7440-61-1	URANIUM	10	0.027	0.1	0.027	U	
7440-66-6	ZINC	10	9.1	100	9.1	U	

**Data Package ID:** im1605156-1

**5/29/2016**  
**ALS1605156**  
**ICPMS Metals**

**Method SW6020A**  
**Laboratory Control Sample**

**Lab Name:** ALS Environmental -- FC  
**Work Order Number:** 1605156  
**Client Name:** CH2M HILL Plateau Remediation Company  
**ClientProject ID:** 200 UP1, MAY 2016 I16-021

<b>Lab ID:</b> IM160517-1LCS	<b>Sample Matrix:</b> WATER <b>% Moisture:</b> N/A <b>Date Collected:</b> N/A <b>Date Extracted:</b> 05/17/2016 <b>Date Analyzed:</b> 05/18/2016 <b>Prep Method:</b> SW3005A	<b>Prep Batch:</b> IP160517-1 <b>QCBatchID:</b> IP160517-1-2 <b>Run ID:</b> IM160518-10A2 <b>Cleanup:</b> NONE <b>Basis:</b> N/A <b>File Name:</b> 049SMPL_	<b>Sample Aliquot:</b> 50 ml <b>Final Volume:</b> 50 ml <b>Result Units:</b> UG/L <b>Clean DF:</b> 1
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CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7429-90-5	ALUMINUM	5000	5060	100		101	80 - 120%
7440-36-0	ANTIMONY	30	31.8	1		106	80 - 120%
7440-38-2	ARSENIC	100	104	2		104	80 - 120%
7440-39-3	BARIUM	100	104	5		104	80 - 120%
7440-41-7	BERYLLIUM	50	56.4	0.5		113	80 - 120%
7440-43-9	CADMIUM	30	31.2	2		104	80 - 120%
7440-47-3	CHROMIUM	500	516	10		103	80 - 120%
7440-48-4	COBALT	100	103	5		103	80 - 120%
7440-50-8	COPPER	1000	1070	8		107	80 - 120%
7439-92-1	LEAD	50	52.2	2		104	80 - 120%
7439-96-5	MANGANESE	100	103	5		103	80 - 120%
7439-98-7	MOLYBDENUM	100	102	2		102	80 - 120%
7440-02-0	NICKEL	500	517	20		103	80 - 120%
7782-49-2	SELENIUM	100	112	10		112	80 - 120%
7440-22-4	SILVER	10	10.6	0.5		106	80 - 120%
7440-24-6	STRONTIUM	100	102	5		102	80 - 120%
7440-28-0	THALLIUM	2	2.19	0.1		110	80 - 120%
7440-29-1	THORIUM	10	10.7	0.2		107	80 - 120%
7440-31-5	TIN	500	556	10		111	80 - 120%
7440-61-1	URANIUM	10	10.6	0.1		106	80 - 120%
7440-66-6	ZINC	2000	2110	100		106	80 - 120%

**Data Package ID:** im1605156-1

5/29/2016

ALS1605156

## ICPMS Metals

Method SW6020A

## Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1605156

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200 UP1, MAY 2016 I16-021

Field ID: B34XX0

LabID: 1605156-1MS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 06-May-16

Date Extracted: 17-May-16

Date Analyzed: 18-May-16

Prep Method: SW3005 Rev A

Prep Batch: IP160517-1

QCBatchID: IP160517-1-2

Run ID: IM160518-10A2

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name: 053SMPL\_

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7429-90-5	ALUMINUM	14	U	4960		100	5000	99	75 - 125%
7440-36-0	ANTIMONY	0.36	B	31.4		1	30	103	75 - 125%
7440-38-2	ARSENIC	2.1		103		2	100	100	75 - 125%
7440-39-3	BARIUM	54		156		5	100	102	75 - 125%
7440-41-7	BERYLLIUM	0.41	B	55.2		0.5	50	109	75 - 125%
7440-43-9	CADMIUM	0.099	U	31.1		2	30	104	75 - 125%
7440-47-3	CHROMIUM	110		612		10	500	101	75 - 125%
7440-48-4	COBALT	0.23	B	101		5	100	101	75 - 125%
7440-50-8	COPPER	1.2	B	1040		8	1000	104	75 - 125%
7439-92-1	LEAD	0.35	BC	51.9		2	50	103	75 - 125%
7439-96-5	MANGANESE	0.63	B	101		5	100	100	75 - 125%
7439-98-7	MOLYBDENUM	6.6		107		2	100	101	75 - 125%
7440-02-0	NICKEL	4.2	U	506		20	500	101	75 - 125%
7782-49-2	SELENIUM	3.5	B	112		10	100	109	75 - 125%
7440-22-4	SILVER	0.039	U	10.2		0.5	10	102	75 - 125%
7440-24-6	STRONTIUM	160		264		5	100	100	75 - 125%
7440-28-0	THALLIUM	0.02	B	2.22		0.1	2	110	75 - 125%
7440-29-1	THORIUM	0.032	U	10.8		0.2	10	108	75 - 125%
7440-31-5	TIN	7.4	B	555		10	500	110	75 - 125%
7440-61-1	URANIUM	1.5		12		0.1	10	105	75 - 125%
7440-66-6	ZINC	9.1	U	2070		100	2000	104	75 - 125%

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5/29/2016

ALS1605156

## ICPMS Metals

Method SW6020A

## Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1605156

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200 UP1, MAY 2016 I16-021

Field ID: B34XX0

LabID: 1605156-1MSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 06-May-16

Date Extracted: 17-May-16

Date Analyzed: 18-May-16

Prep Method: SW3005 Rev A

Prep Batch: IP160517-1

QCBatchID: IP160517-1-2

Run ID: IM160518-10A2

Cleanup: NONE

Basis: As Received

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

File Name: 054SMPL\_

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7429-90-5	ALUMINUM	4990		5000	100	100	20	0
7440-36-0	ANTIMONY	31.4		30	104	1	20	0
7440-38-2	ARSENIC	103		100	101	2	20	1
7440-39-3	BARIUM	157		100	103	5	20	0
7440-41-7	BERYLLIUM	56.2		50	112	0.5	20	2
7440-43-9	CADMIUM	30.5		30	102	2	20	2
7440-47-3	CHROMIUM	604		500	99	10	20	1
7440-48-4	COBALT	98.4		100	98	5	20	3
7440-50-8	COPPER	1020		1000	102	8	20	2
7439-92-1	LEAD	51.5		50	102	2	20	1
7439-96-5	MANGANESE	100		100	100	5	20	0
7439-98-7	MOLYBDENUM	108		100	101	2	20	1
7440-02-0	NICKEL	493		500	99	20	20	3
7782-49-2	SELENIUM	109		100	105	10	20	3
7440-22-4	SILVER	10.2		10	102	0.5	20	0
7440-24-6	STRONTIUM	263		100	99	5	20	0
7440-28-0	THALLIUM	2.24		2	111	0.1	20	1
7440-29-1	THORIUM	10.7		10	107	0.2	20	0
7440-31-5	TIN	568		500	112	10	20	2
7440-61-1	URANIUM	12.1		10	106	0.1	20	0
7440-66-6	ZINC	2050		2000	103	100	20	1

Data Package ID: *im1605156-1*

Date Printed: Thursday, May 26, 2016

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