



Ft. Collins, Colorado

LIMS Version: 6.815

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Sunday, May 29, 2016

Laine Sumner
CH2M HILL Plateau Remediation Company
2420 Stevens Center
Richland, WA 99352

Re: ALS Workorder: 1605420
Project Name: 200W Pump & Treat - Extraction Well Water Sampling
Project Number: F13-002

Dear Ms. Sumner:

One water sample was received from CH2M HILL Plateau Remediation Company, on 5/20/2016. 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", is written over a light blue background.

ALS Environmental
Julie Ellingson
Project Manager

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1605420

Client Name: CH2M HILL Plateau Remediation Company

Client Project Name: 200W Pump & Treat - Extraction Well Water Sampling

Client Project Number: F13-002

Client PO Number: BOA 54854

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B35JF9	1605420-1		WATER	18-May-16	12:05

10 405
F13-002-1981
PAGE 1 OF 1

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST **1605420**

PROJECT COORDINATOR: SUMNER, LC
TELEPHONE NO.: 376-3922

COMPANY CONTACT: SUMNER, LC

PRICE CODE: C05
AIR QUALITY:
METHOD OF SHIPMENT: FEDERAL EXPRESS

DATA TURNAROUND: 7 Days / 7 Days

PROJECT DESIGNATION: 200W Pump & Treat - Extraction Well Water Sampling

SAF NO.: F13-002

COA: 303111

BILL OF LADING/AIR BILL NO.: **783138732062**
MVA 5-19-16

ACTUAL SAMPLE DEPTH: N/A

FIELD LOGBOOK NO.: **HNF-N-491-15**

OFFSITE PROPERTY NO.: **646**

PRESERVATION: **MVA DOE 5-19-16**
HNO3 to pH <2

HOLDING TIME: 6 Months

TYPE OF CONTAINER: G/P

NO. OF CONTAINER(S): 1

VOLUME: 125mL

SAMPLE ANALYSIS: SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE DATE: **5/18/16**

SAMPLE TIME: **1205**

MATRIX*: WATER

SPECIAL HANDLING AND/OR STORAGE:

POSSIBLE SAMPLE HAZARDS/ REMARKS:
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A

COLLECTOR: Frank Hall
CHPRC

SAMPLING LOCATION: Catch Tank 344, V01-Y31 #1

ICE CHEST NO.: **GWS-479**
MVA 5-19-16

SHIPPED TO: ALS Environmental Ft. Collins

SPECIAL INSTRUCTIONS
TRVL-16-137
(1) 6010_METALS_ICP: COMMON {Calcium, Iron, Magnesium, Potassium, Sodium}; 6010_METALS_ICP: COMMON (Add-on) {Boron}; 6020_METALS_ICPMS: COMMON {Aluminum, Cadmium, Chromium, Cobalt, Copper, Molybdenum, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Manganese, Nickel, Uranium, Zinc};

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Frank Hall CHPRC	RECEIVED BY/STORED IN: <i>SSU #1</i>	MAY 18 2016	MAY 18 2016
RELINQUISHED BY/REMOVED FROM: <i>SSU #1</i>	RECEIVED BY/STORED IN: Troy Bacon CHPRC	MAY 18 2016 0650	MAY 18 2016 0650
RELINQUISHED BY/REMOVED FROM: Troy Bacon CHPRC	RECEIVED BY/STORED IN: FEDEX	MAY 18 2016 1400	MAY 18 2016 0930
RELINQUISHED BY/REMOVED FROM: <i>FED FX</i>	RECEIVED BY/STORED IN: <i>Crumbel C Drumbel</i>	MAY 18 2016 1400	MAY 18 2016 0930
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM:	RECEIVED BY/STORED IN:	DATE/TIME	DATE/TIME

LABORATORY SECTION: RECEIVED BY

FINAL SAMPLE DISPOSITION: DISPOSAL METHOD

TITLE: TRVL NUM = TRVL-16-137

DISPOSED BY: FSR ID = FSR32159

DATE/TIME: A-6003-618 (REV 2)



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC

Workorder No: 1605420

Project Manager: JE

Initials: CDT Date: 5-20-16

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 Amount of sediment: ___ dusting ___ moderate ___ heavy	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		YES	<input checked="" type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>Amb</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>10</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] 5-20-16

ORIGIN ID: PGCA (509) 373-3547
CHRIS FULTON
CH2M
6267 LATAH ST
RICHLAND, WA 99354
UNITED STATES US

SHIP DATE: 19MAY16
ACTWGT: 10.00 LB
CAD: 107066051/NET3730

BILL THIRD PARTY

TO JULIE ELLINGSON

225 COMMERCE DRIVE

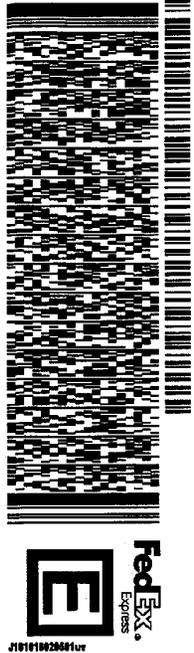
FORT COLLINS CO 80524

(970) 490-1511 REF: PTR86346

INV: DEPT:

10
-2

540.11.6323/727F



TRK# 7831 3873 2062
0201

FRI - 20 MAY 10:30A

PRIORITY OVERNIGHT

DSR

80524

CO-US DEN

XH FTCA



1605420

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Metals Case Narrative

CH2M HILL Plateau Remediation Company

200W Pump & Treat – Extraction Well Water Sampling – F13-002

Work Order Number: 1605420

1. This report consists of 1 water sample.
2. The sample was received intact at ambient temperature by ALS on 05/20/16.
3. The sample had a pH less than 2 upon receipt.
4. The sample was prepared and analyzed based on SW-846, 3rd Edition procedures.

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

5. Analysis by Trace ICP followed method 6010B and the current revision of SOP 834.

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 sample was prepared and analyzed within the established hold times.

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

8. General quality control procedures.
 - A preparation (method) blank, laboratory control sample, and laboratory control sample duplicate were digested and analyzed with the sample in this digestion batch.
 - The preparation (method) blank associated with this digestion batch was below the reporting limit for the requested analytes. Sodium 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 and high standard readbacks associated with Method 6010B were within acceptance criteria.
 - The interference check samples associated with Method 6020A were analyzed.
9. Matrix specific quality control procedures.

Due to limited sample volume, a laboratory control sample duplicate (LCSD) was performed in place of matrix QC for each analysis.

10. The sample required a dilution to bring sodium into the analytical range of the Trace ICP.

The sample was analyzed at a dilution in order to protect the ICP-MS from the high metal content of the sample.

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



April E. Ellinger
Inorganics Final Data Reviewer

5/29/16
Date

SAMPLE ISSUE RESOLUTION

SIR NUM	SIR16-388
REV NUM	0
DATE INITIATED	5/31/2016

SAMPLE EVENT INFORMATION

SAF NUM(S) F13-002
OPERABLE UNIT(S) 200-ZP-1
PROJECT(S) 200W P&T EXTRAC
SAMPLE EVENT TITLE(S) 200W Pump & Treat Extraction Wells
LABORATORY ALS Environmental Ft. Collins

SAMPLING INFORMATION

NUMBER OF SAMPLES 1
SAMPLE NUMBERS B35JF9
SAMPLE MATRIX WATER
COLLECTION DATE 5/18/2016 - 5/18/2016
SDG NUM ALS1605420

ISSUE BACKGROUND

CLASS Chain of Custody Issue (Field)
TYPE Incorrect Relinquish/Receipt Date/Time
DESCRIPTION COC F13-002-1981, SAMPLE B35JF9.
 MISSING FIRST RELINQUISHED BY AND RECEIVED BY TIMES.
 SECOND RELINQUISHED BY AND RECEIVED BY DATE INCORRECT.
 THIRD RELINQUISHED BY DATE INCORRECT.

DISPOSITION

DESCRIPTION DOCUMENT AND CLOSE
JUSTIFICATION DOCUMENT AND CLOSE

SUBMITTED BY: Gayelyn Gibson DATE: 05/23/2016
 ACCEPTED BY: Kirsten Killand DATE: 05/31/2016



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.

Total Recoverable ICP Metals

Method SW6010B

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1605420

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - Extraction Well Water Sampling F13-002

Field ID: B35JF9	Sample Matrix: WATER	Prep Batch: IP160523-2	Analyst: Steve Workman
Lab ID: 1605420-1	% Moisture: N/A	QCBatchID: IP160523-2-6	Sample Aliquot: 50 ml
	Date Collected: 18-May-16	Run ID: IT160524-1A9	Final Volume: 50 ml
	Date Extracted: 23-May-16	Cleanup: NONE	Result Units: UG/L
	Date Analyzed: 24-May-16	Basis: As Received	Clean DF: 1
	Prep Method: SW3005 Rev A	File Name: 160524A.	

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
7440-42-8	BORON	1	73	30	6.4		
7440-70-2	CALCIUM	1	260000	1000	23		
7439-89-6	IRON	1	61	50	16		
7439-95-4	MAGNESIUM	1	89000	750	21		
7440-09-7	POTASSIUM	1	26000	1000	170		
7440-23-5	SODIUM	10	380000	5000	260	D	

Data Package ID: ip1605420-1

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1605420

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - Extraction Well Water Sampling F13-002

Field ID:	B35JF9
Lab ID:	1605420-1

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 18-May-16
 Date Extracted: 23-May-16
 Date Analyzed: 25-May-16
 Prep Method: SW3005 Rev A

Prep Batch: IP160523-2
 QCBatchID: IP160523-2-4
 Run ID: IM160524-11A7
 Cleanup: NONE
 Basis: As Received
 File Name: 181SMPL_

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	1000	14000	10000	1400	D	
7440-38-2	ARSENIC	1000	18	200	18	UD	
7440-43-9	CADMIUM	1000	9.9	200	9.9	UD	
7440-47-3	CHROMIUM	1000	110	1000	110	UD	
7440-48-4	COBALT	1000	7	500	7	UD	
7440-50-8	COPPER	1000	110	800	110	UD	
7439-96-5	MANGANESE	1000	49	500	30	BD	
7439-98-7	MOLYBDENUM	1000	41	200	41	UD	
7440-02-0	NICKEL	1000	420	2000	420	UD	
7782-49-2	SELENIUM	1000	66	1000	66	UD	
7440-61-1	URANIUM	1000	75000	10	2.7	D	
7440-66-6	ZINC	1000	4400	10000	910	BD	

Data Package ID: im1605420-1

ICP Metals

Method SW6010B

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1605420

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - Extraction Well Water Sampling F13-002

Lab ID: IP160523-2MB

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: N/A
 Date Extracted: 23-May-16
 Date Analyzed: 24-May-16

Prep Batch: IP160523-2
 QCBatchID: IP160523-2-6
 Run ID: IT160524-1A9
 Cleanup: NONE
 Basis: N/A
 File Name: 160524A.

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
7440-42-8	BORON	1	6.4	30	6.4	U	
7440-70-2	CALCIUM	1	23	1000	23	U	
7439-89-6	IRON	1	16	50	16	U	
7439-95-4	MAGNESIUM	1	21	750	21	U	
7440-09-7	POTASSIUM	1	170	1000	170	U	
7440-23-5	SODIUM	1	70	500	26	B	

Data Package ID: ip1605420-1

ICP Metals

Method SW6010B

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1605420

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - Extraction Well Water Sampling F13-002

Lab ID: IP160523-2LCS

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: N/A
 Date Extracted: 05/23/2016
 Date Analyzed: 05/24/2016
 Prep Method: SW3005A

Prep Batch: IP160523-2
 QCBatchID: IP160523-2-6
 Run ID: IT160524-1A9
 Cleanup: NONE
 Basis: N/A
 File Name: 160524A.

Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-42-8	BORON	1000	1030	30		103	80 - 120%
7440-70-2	CALCIUM	40000	40000	1000		100	80 - 120%
7439-89-6	IRON	1000	951	50		95	80 - 120%
7439-95-4	MAGNESIUM	40000	39400	750		98	80 - 120%
7440-09-7	POTASSIUM	40000	41100	1000		103	80 - 120%
7440-23-5	SODIUM	40000	39700	500		99	80 - 120%

Lab ID: IP160523-2LCSD

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: N/A
 Date Extracted: 05/23/2016
 Date Analyzed: 05/24/2016
 Prep Method: SW3005A

Prep Batch: IP160523-2
 QCBatchID: IP160523-2-6
 Run ID: IT160524-1A9
 Cleanup: NONE
 Basis: N/A
 File Name: 160524A.

Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
7440-42-8	BORON	1000	1030	30		103	20	0
7440-70-2	CALCIUM	40000	39800	1000		99	20	1
7439-89-6	IRON	1000	949	50		95	20	0
7439-95-4	MAGNESIUM	40000	39100	750		98	20	1
7440-09-7	POTASSIUM	40000	40600	1000		102	20	1
7440-23-5	SODIUM	40000	39400	500		98	20	1

Data Package ID: *ip1605420-1*

ICPMS Metals

Method SW6020A

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1605420

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - Extraction Well Water Sampling F13-002

Lab ID: IP160523-2MB

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: N/A
 Date Extracted: 23-May-16
 Date Analyzed: 25-May-16

Prep Batch: IP160523-2
 QCBatchID: IP160523-2-4
 Run ID: IM160524-11A7
 Cleanup: NONE
 Basis: N/A
 File Name: 146SMPL_

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	
7440-38-2	ARSENIC	10	0.18	2	0.18	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	0.66	8	1.1	U	
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	
7440-61-1	URANIUM	10	0.027	0.1	0.027	U	
7440-66-6	ZINC	10	9.1	100	9.1	U	

Data Package ID: im1605420-1

ICPMS Metals

Method SW6020A

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1605420

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - Extraction Well Water Sampling F13-002

Lab ID: IM160523-2LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05/23/2016

Date Analyzed: 05/25/2016

Prep Method: SW3005A

Prep Batch: IP160523-2

QCBatchID: IP160523-2-4

Run ID: IM160524-11A7

Cleanup: NONE

Basis: N/A

File Name: 147SMPL_

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7429-90-5	ALUMINUM	5000	5080	100		102	80 - 120%
7440-38-2	ARSENIC	100	102	2		102	80 - 120%
7440-43-9	CADMIUM	30	29.7	2		99	80 - 120%
7440-47-3	CHROMIUM	500	511	10		102	80 - 120%
7440-48-4	COBALT	100	100	5		100	80 - 120%
7440-50-8	COPPER	1000	1050	8		105	80 - 120%
7439-96-5	MANGANESE	100	100	5		100	80 - 120%
7439-98-7	MOLYBDENUM	100	101	2		101	80 - 120%
7440-02-0	NICKEL	500	510	20		102	80 - 120%
7782-49-2	SELENIUM	100	112	10		112	80 - 120%
7440-61-1	URANIUM	10	10.4	0.1		104	80 - 120%
7440-66-6	ZINC	2000	2080	100		104	80 - 120%

Data Package ID: *im1605420-1*

ICPMS Metals

Method SW6020A

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1605420

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 200W Pump & Treat - Extraction Well Water Sampling F13-002

Lab ID: IM160523-2LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05/23/2016

Date Analyzed: 05/25/2016

Prep Method: SW3005A

Prep Batch: IP160523-2

QCBatchID: IP160523-2-4

Run ID: IM160524-11A7

Cleanup: NONE

Basis: N/A

File Name: 148SMPL_

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
7429-90-5	ALUMINUM	5000	5100	100		102	20	0
7440-38-2	ARSENIC	100	103	2		103	20	2
7440-43-9	CADMIUM	30	30.9	2		103	20	4
7440-47-3	CHROMIUM	500	514	10		103	20	1
7440-48-4	COBALT	100	101	5		101	20	1
7440-50-8	COPPER	1000	1050	8		105	20	0
7439-96-5	MANGANESE	100	101	5		101	20	1
7439-98-7	MOLYBDENUM	100	100	2		100	20	1
7440-02-0	NICKEL	500	508	20		102	20	0
7782-49-2	SELENIUM	100	108	10		108	20	4
7440-61-1	URANIUM	10	10.5	0.1		105	20	1
7440-66-6	ZINC	2000	2070	100		103	20	0

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