



Tuesday, July 18, 2017

Karen Waters-Husted
CH2M HILL Plateau Remediation Company
825 Jadwin Avenue
Richland, WA 99352

Re: ALS Workorder: 1706171
Project Name: SURV, JUNE 2017
Project Number: S17-006

Dear Ms. Waters-Husted:

Three water samples were received from CH2M HILL Plateau Remediation Company, on 6/7/2017. 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
Shiloh J. Summy
Project Manager

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1706171

Client Name: CH2M HILL Plateau Remediation Company

Client Project Name: SURV, JUNE 2017

Client Project Number: S17-006

Client PO Number: BOA 54854

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B39RX3	1706171-1		WATER	06-Jun-17	12:00
B39RX7	1706171-2		WATER	06-Jun-17	12:00
B39RW3	1706171-3		WATER	06-Jun-17	11:25

Collector Juan Aguilar / CHPRC
SAF No. S17-006
Project Title SURV, JUNE 2017
Shipped To (Lab) ALS Environmental Ft. Collins
Protocol SURV
Contact/Requester Karen Waters-Husted
Telephone No. 509-376-4650
Sampling Origin Hanford Site
Purchase Order/Charge Code 300071
Logbook No. HNF-N-506 88/71
Ice Chest No. 6 WS-394
Method of Shipment Commercial Carrier
Bill of Lading/Air Bill No. 77931559 5214
Priority: 30 Days **PRIORITY**
Offsite Property No. 8005

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

SPECIAL INSTRUCTIONS
 Hold Time
 Total Activity Exemption: Yes No

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B39RX3	N	6-6-17	1200	1x500-mL G/P	6020_METALS_ICPMS: Arsenic (1); 6020_METALS_ICPMS: Uranium (1)	6 Months	HNO3 to pH <2
B39RX7	Y	6-6-17	1200	1x500-mL G/P	6020_METALS_ICPMS: Arsenic (1)	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Juan Aguilar / CHPRC			JUN 06 2017 1220	Janelle Zunker / CHPRC			JUN 06 2017 1220	S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge W1 = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Janelle Zunker / CHPRC			JUN 06 2017 1400	FEDEX				
FEDEX				CTrimble C Zunker			6-7-17 0520	
Relinquished By			Date/Time	Received By			Date/Time	

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

Collector	Juan Aguilar ACHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S17-006	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, JUNE 2017	Logbook No.	HNF-N-506 88/71	Ice Chest No.	6005-397
Shipped To (Lab)	ALS Environmental Ft. Collins	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7793 ISSR 5214
Protocol	SURV	Priority:	30 Days	Offsite Property No.	8005
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		SPECIAL INSTRUCTIONS N/A		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis
B39RW3 (3)	N	W 6-6-17	1125	1x500-mL G/P	6020_METALS_ICPMS: Uranium (1)
				Holding Time	Preservative
				6 Months	HNO3 to pH <2

07/18/2017
ALS1706171

REV.0

Relinquished By	Juan Aguilar ACHPRC	Print	Sign	Received By	Ledy Wall ACHPRC	Print	Sign	Date/Time	1220	Date/Time	1220	Matrix *
Relinquished By	Ledy Wall ACHPRC	Print	Sign	Received By	FEDEX	Print	Sign	Date/Time	JUN 06 2017	Date/Time	JUN 06 2017	S = Soil
Relinquished By	FEDEX	Print	Sign	Received By	CRIMINAL CHAMBERLAIN	Print	Sign	Date/Time	6-7-17	Date/Time	0920	DL = Drum Solids
Relinquished By	4	Print	Sign	Received By		Print	Sign	Date/Time		Date/Time		DL = Drum Liquids
Disposal Method (e.g., Return to customer, per lab procedure, used in process)												
Disposed By												
Date/Time												



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC

Workorder No: 1706171

Project Manager: _____

Initials: CDJ Date: 6-7-17

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?		<input checked="" type="radio"/> 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 <input checked="" type="radio"/>
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>10</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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: Shilah Sunny 6/7/17

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ALS1706171

REV.0

1706171

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ORIGIN ID: PSCA (509) 528-9426
LESLY WALL
CH2M
6267 LATAH ST.
6269 LATAH ST.
RICHLAND, WA 99354
UNITED STATES US

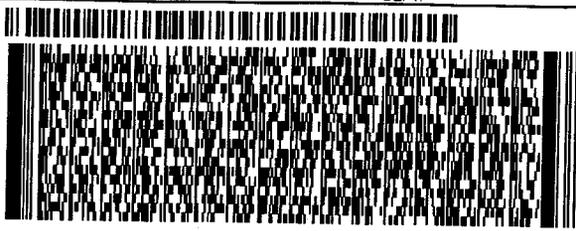
SHIP DATE: 06JUN17
ACTWGT: 30.00 LB
CAD: 107066051/NET3850

BILL THIRD PARTY

TO JULIE ELLINGSON
ALS GLOBAL
225 COMMERCE DRIVE

FORT COLLINS CO 80524
(970) 490-1511 REF: PTR#8005
INV: DEPT:
PO:

546J1/A5026301

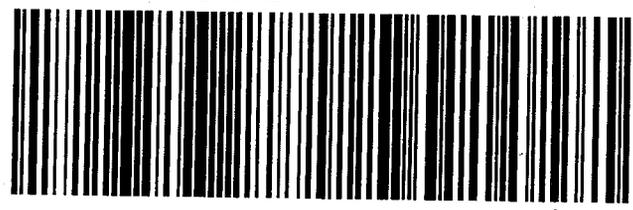


WED - 07 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7793 1559 5214
0201

XH FTCA

DSR
80524
CO-US DEN





Metals

Case Narrative

CH2M HILL Plateau Remediation Company

SURV, JUNE 2017 -- S17-006

Work Order Number: 1706171

1. This report consists of 3 water samples for total recoverable and dissolved metals.
2. The samples were received intact at ambient temperature by ALS on 06/07/17.
3. The samples were filtered through a 0.45 micron filter and preserved with nitric acid to a pH less than two prior to analysis.
4. The samples were prepared and analyzed based on SW-846, 3rd 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 times.

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. 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.

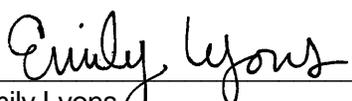
All three samples for this work order were designated as the quality control samples for this analysis.

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 serial dilution was analyzed with this ICP batch. All acceptance criteria were met.

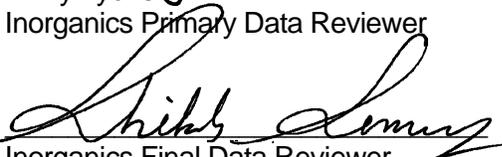
10. It is a standard practice that samples for ICP-MS are analyzed at a dilution. The 10X factor can be considered an artifact of the prep and does not indicate a secondary dilution and is therefore not flagged as a dilution.

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.



Emily Lyons
Inorganics Primary Data Reviewer

7/18/17
Date



Rick Gomez
Inorganics Final Data Reviewer

7/18/17
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.

Dissolved ARSENIC

Method SW6020A

Sample Results

Lab Name: ALS -- Fort Collins
Client Name: CH2M HILL Plateau Remediation Company
Client Project ID: SURV, JUNE 2017 S17-006
Work Order Number: 1706171 **Final Volume:** 50 ml
Reporting Basis: As Received **Matrix:** WATER
Analyst: Brent A. Stanfield **Result Units:** UG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Flag	Sample Aliquot
B39RX7	1706171-2	6/6/2017	6/20/2017	07/11/2017	N/A	10	4.9	2	0.6		50 ml

Comments:

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

Data Package ID: *im1706171-1*

Total Recoverable ARSENIC

Method SW6020A

Sample Results

Lab Name: ALS -- Fort Collins
Client Name: CH2M HILL Plateau Remediation Company
Client Project ID: SURV, JUNE 2017 S17-006
Work Order Number: 1706171 Final Volume: 50 ml
Reporting Basis: As Received Matrix: WATER
Analyst: Brent A. Stanfield Result Units: UG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Flag	Sample Aliquot
B39RX3	1706171-1	6/6/2017	6/20/2017	07/11/2017	N/A	10	5	2	0.6		50 ml

Comments:

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

Data Package ID: *im1706171-1*

Total Recoverable URANIUM

Method SW6020A

Sample Results

Lab Name: ALS -- Fort Collins
Client Name: CH2M HILL Plateau Remediation Company
Client Project ID: SURV, JUNE 2017 S17-006
Work Order Number: 1706171 **Final Volume:** 50 ml
Reporting Basis: As Received **Matrix:** WATER
Analyst: Brent A. Stanfield **Result Units:** UG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Flag	Sample Aliquot
B39RX3	1706171-1	6/6/2017	6/20/2017	07/11/2017	N/A	10	12	0.1	0.03		50 ml
B39RW3	1706171-3	6/6/2017	6/20/2017	07/11/2017	N/A	10	16	0.1	0.03		50 ml

Comments:

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

Data Package ID: *im1706171-1*

ALS1706171

ICPMS Metals

Method SW6020A

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 1706171

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, JUNE 2017 S17-006

Lab ID: IP170620-10MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 20-Jun-17

Date Analyzed: 11-Jul-17

Prep Batch: IP170620-10

QCBatchID: IP170620-10-4

Run ID: IM170711-10A4

Cleanup: NONE

Basis: N/A

File Name: 077SMPL_

Sample Aliquot: 50 ml

Final Volume: 50 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
7440-38-2	ARSENIC	10	0.6	U	2	0.6
7440-61-1	URANIUM	10	0.03	U	0.1	0.03

Data Package ID: *im1706171-1*

ALS1706171

ICPMS Metals

Method SW6020A

Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 1706171

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, JUNE 2017 S17-006

Lab ID: IM170620-10LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 06/20/2017

Date Analyzed: 07/11/2017

Prep Method: SW3005A

Prep Batch: IP170620-10

QCBatchID: IP170620-10-4

Run ID: IM170711-10A4

Cleanup: NONE

Basis: N/A

File Name: 078SMPL_

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
7440-38-2	ARSENIC	100	96.9	2		97	80 - 120%
7440-61-1	URANIUM	10	9.85	0.1		99	80 - 120%

Data Package ID: *im1706171-1*

ALS1706171

ICPMS Metals

Method SW6020A

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 1706171

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, JUNE 2017 S17-006

Field ID: B39RX3
LabID: 1706171-1MS

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 06-Jun-17
 Date Extracted: 20-Jun-17
 Date Analyzed: 11-Jul-17
 Prep Method: SW3005 Rev A

Prep Batch: IP170620-10
 QCBatchID: IP170620-10-4
 Run ID: IM170711-10A4
 Cleanup: NONE
 Basis: As Received

Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 File Name: 109SMPL_

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7440-38-2	ARSENIC	5		103		2	100	98	75 - 125%
7440-61-1	URANIUM	12		22.2		0.1	10	103	75 - 125%

Field ID: B39RX3
LabID: 1706171-1MSD

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 06-Jun-17
 Date Extracted: 20-Jun-17
 Date Analyzed: 11-Jul-17
 Prep Method: SW3005 Rev A

Prep Batch: IP170620-10
 QCBatchID: IP170620-10-4
 Run ID: IM170711-10A4
 Cleanup: NONE
 Basis: As Received

Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 File Name: 110SMPL_

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7440-38-2	ARSENIC	105		100	100	2	20	2
7440-61-1	URANIUM	22.6		10	107	0.1	20	2

Data Package ID: *im1706171-1*

ALS1706171

ICPMS Metals

Method SW6020A

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 1706171

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, JUNE 2017 S17-006

Field ID: B39RX7
LabID: 1706171-2MS

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 06-Jun-17
 Date Extracted: 20-Jun-17
 Date Analyzed: 11-Jul-17
 Prep Method: SW3005 Rev A

Prep Batch: IP170620-10
 QCBatchID: IP170620-10-5
 Run ID: IM170711-10A4
 Cleanup: NONE
 Basis: As Received

Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 File Name: 116SMPL_

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7440-38-2	ARSENIC	4.9		105		2	100	100	75 - 125%

Field ID: B39RX7
LabID: 1706171-2MSD

Sample Matrix: WATER
 % Moisture: N/A
 Date Collected: 06-Jun-17
 Date Extracted: 20-Jun-17
 Date Analyzed: 11-Jul-17
 Prep Method: SW3005 Rev A

Prep Batch: IP170620-10
 QCBatchID: IP170620-10-5
 Run ID: IM170711-10A4
 Cleanup: NONE
 Basis: As Received

Sample Aliquot: 50 ml
 Final Volume: 50 ml
 Result Units: UG/L
 File Name: 117SMPL_

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7440-38-2	ARSENIC	101		100	96	2	20	4

Data Package ID: *im1706171-1*

ALS1706171

ICPMS Metals

Method SW6020A

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 1706171

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, JUNE 2017 S17-006

Field ID: B39RW3	Sample Matrix: WATER	Prep Batch: IP170620-10	Sample Aliquot: 50 ml
LabID: 1706171-3MS	% Moisture: N/A	QCBatchID: IP170620-10-6	Final Volume: 50 ml
	Date Collected: 06-Jun-17	Run ID: IM170711-10A4	Result Units: UG/L
	Date Extracted: 20-Jun-17	Cleanup: NONE	File Name: 121SMPL_
	Date Analyzed: 11-Jul-17	Basis: As Received	
	Prep Method: SW3005 Rev A		

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7440-61-1	URANIUM	16		26.3		0.1	10	104	75 - 125%

Field ID: B39RW3	Sample Matrix: WATER	Prep Batch: IP170620-10	Sample Aliquot: 50 ml
LabID: 1706171-3MSD	% Moisture: N/A	QCBatchID: IP170620-10-6	Final Volume: 50 ml
	Date Collected: 06-Jun-17	Run ID: IM170711-10A4	Result Units: UG/L
	Date Extracted: 20-Jun-17	Cleanup: NONE	File Name: 122SMPL_
	Date Analyzed: 11-Jul-17	Basis: As Received	
	Prep Method: SW3005 Rev A		

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7440-61-1	URANIUM	27		10	111	0.1	20	3

Data Package ID: im1706171-1

Prep Batch ID: IP170620-10

Start Date: 06/20/17	End Date: 06/20/17	Concentration Method: NONE	Batch Created By: ajl2
Start Time: 14:24	End Time: 18:00	Extract Method: SW3005A	Date Created: 06/20/17
Prep Analyst: Amanda J. Lynn		Initial Volume Units: ml	Time Created: 14:25
Comments:		Final Volume Units: ml	Validated By: ajl2
<div style="border: 1px solid black; height: 30px; width: 100%;"></div>			Date Validated: 06/20/17
			Time Validated: 15:39

QC Batch ID: IP170620-10-5

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IP170620-10	MB	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706171
IM170620-10	LCS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706171
1706171-2	MS	B39RX7	WATER	6/6/2017	50	50	NONE	1	1706171
1706171-2	MSD	B39RX7	WATER	6/6/2017	50	50	NONE	1	1706171
1706171-2	DUP	B39RX7	WATER	6/6/2017	50	50	NONE	1	1706171
1706171-2	SMP	B39RX7	WATER	6/6/2017	50	50	NONE	1	1706171

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

Prep Batch ID: IP170620-10

Start Date: 06/20/17	End Date: 06/20/17	Concentration Method: NONE	Batch Created By: ajl2
Start Time: 14:24	End Time: 18:00	Extract Method: SW3005A	Date Created: 06/20/17
Prep Analyst: Amanda J. Lynn		Initial Volume Units: ml	Time Created: 14:25
Comments:		Final Volume Units: ml	Validated By: ajl2
<div style="border: 1px solid black; height: 30px; width: 100%;"></div>			Date Validated: 06/20/17
			Time Validated: 15:39

QC Batch ID: IP170620-10-6

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IP170620-10	MB	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706171
IM170620-10	LCS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1706171
1706171-3	MS	B39RW3	WATER	6/6/2017	50	50	NONE	1	1706171
1706171-3	MSD	B39RW3	WATER	6/6/2017	50	50	NONE	1	1706171
1706171-3	DUP	B39RW3	WATER	6/6/2017	50	50	NONE	1	1706171
1706171-3	SMP	B39RW3	WATER	6/6/2017	50	50	NONE	1	1706171

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		