



Friday, December 28, 2018

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

Re: ALS Workorder: 1812167
Project Name: SURV, SEPTEMBER 2018
Project Number: S18-009

Dear Ms. Waters-Husted:

One water sample was received from CH2M HILL Plateau Remediation Company, on 12/12/2018. The sample was scheduled for the following analysis:

Strontium-90

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 method employed.

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

Sincerely,

ALS Environmental
Katie M. O'Brien
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, any 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.

SAMPLE ISSUE RESOLUTION (SIR) REPORT	SIR Number: SIR19-0290
	Rev. Number: 0
	Date Initiated: 12/13/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): S18-009
LABORATORY: ALS

SAMPLING INFORMATION

NUMBER OF SAMPLES: 1
SAMPLE NUMBERS: B3KH82
SAMPLE MATRIX: WATER
SDG NUM(S): ALS1812167

ISSUE BACKGROUND

CLASS: Sample Management Issues
TYPE: Turnaround Time and Due Date Modification
DESCRIPTION: The TAT (Priority) on COC S18-009-481 incorrectly indicates 30 days. The TAT should be changed to 15 days to meet project reporting deadlines.

RESOLUTION

PROPOSED RESOLUTION: Document and close.

FINAL RESOLUTION: Document and close.

SUBMITTED BY:

HEY, BE _____ 12/13/2018 _____

ACCEPTED BY:

O'BRIEN, KATIE _____ 12/13/2018 _____

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1812167

Client Name: CH2M HILL Plateau Remediation Company

Client Project Name: SURV, SEPTEMBER 2018

Client Project Number: S18-009

Client PO Number: BOA 54854

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B3KH82	1812167-1		WATER	11-Dec-18	9:20

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S18-009-481 Page 1 of 1
Collector: Kathy Turner JCHPPC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650		
SAF No.: S18-009	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071		
Project Title: SURV, SEPTEMBER 2018	Logbook No.: HNF-N-506 102	Ice Chest No.: GWS-049		
Shipped To (Lab): ALS Environmental Ft. Collins	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 7739 431370910		
Protocol: SURV	Priority: 30 Days	Offsite Property No.: 10269		
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		
Sample No. B3KH82	Filter N	* Date DEC 11 2018 0720	No/Type Container 2x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON
		Time 0720	Sample Analysis	Holding Time 6 Months
				Preservative HNO3 to pH <2

Relinquished By: Kathy Turner JCHPPC	Received By: Jeff Lucas JCHPPC	DEC 11 2018 1025	DEC 11 2018 1025
Signature Kathy Turner	Signature Jeff Lucas	Date/Time 1025	Date/Time 1025
Relinquished By: Jeff Lucas JCHPPC	Received By: FEDEX	DEC 11 2018 1400	DEC 11 2018 1400
Signature Jeff Lucas	Signature FEDEX	Date/Time 1400	Date/Time 1400
Relinquished By: FEDEX	Received By: Jeff Lucas JCHPPC	DEC 11 2018 1200	DEC 11 2018 1200
Signature FEDEX	Signature Jeff Lucas	Date/Time 1200	Date/Time 1200
Relinquished By: Jeff Lucas JCHPPC	Received By: Jeff Lucas JCHPPC	DEC 11 2018 1025	DEC 11 2018 1025
Signature Jeff Lucas	Signature Jeff Lucas	Date/Time 1025	Date/Time 1025

Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
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Relinquished By: Kathy Turner JCHPPC	Received By: Jeff Lucas JCHPPC	DEC 11 2018 1025	DEC 11 2018 1025
Signature Kathy Turner	Signature Jeff Lucas	Date/Time 1025	Date/Time 1025
Relinquished By: Jeff Lucas JCHPPC	Received By: FEDEX	DEC 11 2018 1400	DEC 11 2018 1400
Signature Jeff Lucas	Signature FEDEX	Date/Time 1400	Date/Time 1400
Relinquished By: FEDEX	Received By: Jeff Lucas JCHPPC	DEC 11 2018 1200	DEC 11 2018 1200
Signature FEDEX	Signature Jeff Lucas	Date/Time 1200	Date/Time 1200
Relinquished By: Jeff Lucas JCHPPC	Received By: Jeff Lucas JCHPPC	DEC 11 2018 1025	DEC 11 2018 1025
Signature Jeff Lucas	Signature Jeff Lucas	Date/Time 1025	Date/Time 1025

Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
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FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:
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ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC Workorder No: 1812167
Project Manager: KMO Initials: Jg Date: 12.12.18

1	Are airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	<input type="radio"/> NO
2	Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	<input type="radio"/> NO
3	Are custody seals on sample containers intact?	NONE	<input checked="" type="radio"/> YES	<input type="radio"/> NO
4	Is there a COC (chain-of-custody) present?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
5	Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	<input type="radio"/> NO
6	Are short-hold samples present?		<input type="radio"/> YES	<input checked="" type="radio"/> NO
7	Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
8	Were all sample containers received intact? (not broken or leaking)		<input checked="" type="radio"/> YES	<input type="radio"/> NO
9	Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
10	Are all samples in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
11	Are all aqueous samples preserved correctly, if required? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	<input type="radio"/> NO
12	Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO
13	Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)	<input checked="" type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO
14	Were the samples shipped on ice?		<input type="radio"/> YES	<input checked="" type="radio"/> NO
15	Were cooler temperatures measured at 0.1-6.0°C?	IR gun used* #1 #3 #4	RAD ONLY 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>11</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"/> N/A (If no, see Form 008)				

Additional Information: Please provide details here for any NO responses to gray shaded boxes above, or any other issues noted:

All client bottle ID's vs ALS lab ID's double-checked by: Jg

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

Project Manager Signature / Date: [Signature] 12/13/18

18/2/07

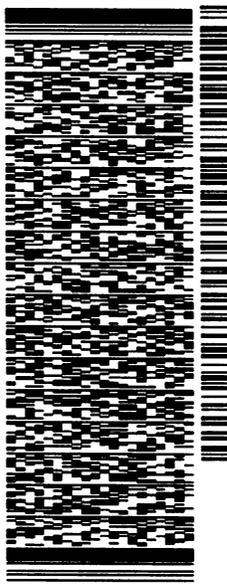
ORIGIN/ID/PSCA (509) 528-9426
LESLEY WALL
CH2M
6267 LATAH ST.
6269 LATAH ST.
RICHLAND, WA 99354
UNITED STATES US

SHIP DATE: 11DEC18
ACTWGHT: 60.00 LB
CAD: 10706605/IN/NET4040
BILL THIRD PARTY

TO
JULIE ELLINGSON
ALS GLOBAL
225 COMMERCE DRIVE

10-2

FORT COLLINS CO 80524
(970) 490-1511
INV. REF PTR#10369/COOLEBR#GWS-049
PO DEPT



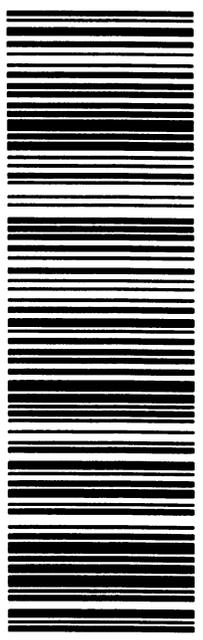
TRK#
0201
7739 4313 7090

WED - 12 DEC 10:30A

PRIORITY OVERNIGHT

XH FTCA

DSR
80524
CO-US **DEN**



552.02/E4 AF/DCA5

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Strontium-90 Case Narrative

CH2M HILL Plateau Remediation Company

SURV, SEPTEMBER 2018 – S18-009

Work Order Number: 1812167

1. The sample was prepared according to the current revision of SOP 707.
2. The sample was analyzed for the presence of ⁹⁰Sr according to the current revision of SOP 724. The analysis was completed on 12/26/2018.
3. Total radio-strontium is reported as ⁹⁰Sr. The presence of other radioisotopes of strontium may cause positive bias in the measured strontium concentration.
4. The analysis results for the sample are reported in units of pCi/L. The sample was not filtered prior to analysis.
5. Sample volume was insufficient to allow preparation of a duplicate. A laboratory control sample duplicate (LCSD) was prepared in lieu of a client sample duplicate.
6. In accordance with project specific instructions, the evaluation threshold for Relative Percent Difference (RPD) has been set at 20%. RPD is defined as:

$$RPD = \frac{|S - D|}{(S + D)/2} * 100$$

Where: S = sample activity result and D = duplicate activity result.

7. No anomalous situations were encountered during the preparation and analysis of this sample. All quality control criteria were met.



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.

Pik yee Yuen
Pik Yee Yuen
Radiochemistry Primary Data Reviewer

12/28/18
Date

Kath M. W.
Radiochemistry Final Data Reviewer

12/28/18
Date

Strontium-90 by GFPC

PAI 724 Rev 13

Method Blank Results

Lab Name: ALS -- Fort Collins
 Work Order Number: 1812167
 Client Name: CH2M HILL Plateau Remediation Company
 ClientProject ID: SURV, SEPTEMBER 2018 S18-009

Lab ID: SR181218-1MB	Sample Matrix: WATER	Prep Batch: SR181218-1	Final Aliquot: 994 ml
	Prep SOP: PAI 707 Rev 14	QCBatchID: SR181218-1-2	Result Units: pCi/l
	Date Collected: 18-Dec-18	Run ID: SR181218-1A	File Name: sra1226a
	Date Prepared: 18-Dec-18	Count Time: 90 minutes	
	Date Analyzed: 26-Dec-18		

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
10098-97-2	Sr-90	8.59E-02 +/- 2.44E-01	5.52E-01	1.00E+00	NA	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.050E+03	9.01E+02	ug	86.2	40 - 110 %	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.

Abbreviations:

TPU - Total Propagated Uncertainty
 MDC - Sample specific Minimum Detectable Concentration
 BDL - Below Detection Limit

M - Requested MDC not met.
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.
 DL - Decision Level

Data Package ID: SR1812167-1

Strontium-90 by GFPC

PAI 724 Rev 13

Laboratory Control Sample(s)

Lab Name: ALS -- Fort Collins
Work Order Number: 1812167
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: SURV, SEPTEMBER 2018 S18-009

Lab ID: SR181218-1LCS

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 14
Date Collected: 18-Dec-18
Date Prepared: 18-Dec-18
Date Analyzed: 26-Dec-18

Prep Batch: SR181218-1
QCBatchID: SR181218-1-2
Run ID: SR181218-1A
Count Time: 90 minutes

Final Aliquot: 994 ml
Result Units: pCi/l
File Name: sra1226a

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
10098-97-2	Sr-90	1.05E+01 +/- 2.55E+00	4.63E-01	1.060E+01	99.5	75 - 125	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	9.960E+02	9.04E+02	ug	90.8	40 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: SR1812167-1

Strontium-90 by GFPC

PAI 724 Rev 13

Laboratory Control Sample(s)

Lab Name: ALS -- Fort Collins
Work Order Number: 1812167
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: SURV, SEPTEMBER 2018 S18-009

Lab ID: SR181218-1LCSD	Sample Matrix: WATER	Prep Batch: SR181218-1	Final Aliquot: 994 ml
	Prep SOP: PAI 707 Rev 14	QCBatchID: SR181218-1-2	Result Units: pCi/l
	Date Collected: 18-Dec-18	Run ID: SR181218-1A	File Name: sra1226a
	Date Prepared: 18-Dec-18	Count Time: 90 minutes	
	Date Analyzed: 26-Dec-18		

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
10098-97-2	Sr-90	1.06E+01 +/- 2.57E+00	4.76E-01	1.060E+01	101	75 - 125	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	9.960E+02	9.76E+02	ug	98.0	40 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS Recovery within control limits.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration

Data Package ID: SR1812167-1

Strontium-90 by GFPC
PAI 724 Rev 13
Duplicate Sample Results (DER)

Lab Name: ALS -- Fort Collins
Work Order Number: 1812167
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: SURV, SEPTEMBER 2018 S18-009

Field ID:	
Lab ID:	SR181218-1LCSD

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 14
Date Collected: 18-Dec-18
Date Prepared: 18-Dec-18
Date Analyzed: 26-Dec-18

Prep Batch: SR181218-1
QCBatchID: SR181218-1-2
Run ID: SR181218-1A
Count Time: 90 minutes

Final Aliquot: 994 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: sra1226a

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
10098-97-2	Sr-90	1.05E+01 +/-	2.55E+00	4.63E-01		1.06E+01 +/-	2.57E+00	4.76E-01		0.0615	3

Comments:

Duplicate Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- D - DER is greater than Control Limit of 3
- LT - Result is less than Request MDC, greater than sample specific MDC
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits

Abbreviations:

- TPU - Total Propagated Uncertainty
- DER - Duplicate Error Ratio
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: SR1812167-1

Strontium-90 by GFPC

PAI 724 Rev 13

Duplicate Sample Results (RPD)

Lab Name: ALS -- Fort Collins
Work Order Number: 1812167
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: SURV, SEPTEMBER 2018 S18-009

Field ID:	
Lab ID:	SR181218-1LCSD

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 14
Date Collected: 18-Dec-18
Date Prepared: 18-Dec-18
Date Analyzed: 26-Dec-18

Prep Batch: SR181218-1
QCBatchID: SR181218-1-2
Run ID: SR181218-1A
Count Time: 90 minutes

Final Aliquot: 994 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: sra1226a

CASNO	Analyte	Sample				Duplicate				RPD	RPD Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
10098-97-2	Sr-90	1.05E+01 +/-	2.55E+00	4.63E-01		1.06E+01 +/-	2.57E+00	4.76E-01		1.00	20

Comments:

Qualifiers/Flags:

- + - Duplicate RPD not within limits.
- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC

Abbreviations:

- TPU - Total Propagated Uncertainty
- BDL - Below Detection Limit
- NR - Not Reported

Data Package ID: SR1812167-1

Strontium-90 by GFPC

PAI 724 Rev 13

Sample Results

Lab Name: ALS -- Fort Collins
Work Order Number: 1812167
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: SURV, SEPTEMBER 2018 S18-009

Field ID:	B3KH82
Lab ID:	1812167-1

Sample Matrix: WATER	Prep Batch: SR181218-1	Final Aliquot: 994 ml
Prep SOP: PAI 707 Rev 14	QCBatchID: SR181218-1-2	Prep Basis: Unfiltered
Date Collected: 11-Dec-18	Run ID: SR181218-1A	Moisture(%): NA
Date Prepared: 18-Dec-18	Count Time: 90 minutes	Result Units: pCi/l
Date Analyzed: 26-Dec-18	Report Basis: Unfiltered	File Name: sra1226a

Analysis ReqCode: SRISO_SEP_PR

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
10098-97-2	Sr-90	1.12E+00 +/- 3.85E-01	4.87E-01	1E+00	NA	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.110E+03	1.01E+03	ug	90.7	40 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

Abbreviations:

- TPU - Total Propagated Uncertainty
- MDC - Sample specific Minimum Detectable Concentration
- BDL - Below Detection Limit
- DL - Decision Level

Data Package ID: SR1812167-1

Prep Batch ID: SR181218-1

Start Date: 12/18/18

End Date: 12/18/18

Concentration Method: NONE

Batch Created By: rgs

Start Time: 15:24

End Time: 15:24

Extract Method: PAI 70714

Date Created: 12/17/18

Prep Analyst: Reilly G. Stockton

Initial Volume Units: ml

Time Created: 15:24

Comments:

Final Volume Units: ml

Validated By: jcp

Date Validated: 12/28/18

Time Validated: 7:50

QC Batch ID: SR181218-1-2

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
SR181218-1	CAR	XXXXXX	WATER	XXXXXX	1000	1000	NONE	1	1811404
SR181218-1	MB	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811404
SR181218-1	LCS	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811404
SR181218-1	LCSD	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811404
1811404-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811404
1811485-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811485
1811485-2	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811485
1811486-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811486
1811486-2	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811486
1811486-3	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811486
1811529-3	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811529
1811532-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811532
1811532-3	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811532
1811532-4	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1811532
1812164-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1812164
1812164-2	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1812164
1812164-3	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1812164
1812164-4	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1812164
1812164-5	SMP	XXXXXX	WATER	XXXXXX	1000	994.01	NONE	1	1812164
1812167-1	SMP	B3KH82	WATER	12/11/2018	1000	994.01	NONE	1	1812167

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		