



Sunday, September 30, 2018

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

Re: ALS Workorder: 1809323
Project Name: AEA, SEPTEMBER 2018
Project Number: I18-016

Dear Ms. Waters-Husted:

Three water samples were received from CH2M HILL Plateau Remediation Company, on 9/18/2018. The samples were 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.

ALS -- Fort Collins**Sample Number(s) Cross-Reference Table****OrderNum:** 1809323**Client Name:** CH2M HILL Plateau Remediation Company**Client Project Name:** AEA, SEPTEMBER 2018**Client Project Number:** I18-016**Client PO Number:** BOA 54854

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B3K6P4	1809323-1		WATER	17-Sep-18	8:55
B3KH70	1809323-2		WATER	17-Sep-18	10:35
B3K6P3	1809323-3		WATER	17-Sep-18	8:55

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# I18-016-055
Collector: Kathy Turner /CHPRC		Contact/Requester: Karen Waters-Husted		Page 1 of 1
SAF No.: I18-016	Project Title: AEA, SEPTEMBER 2018	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071	
Shipped To (Lab): ALS Environmental Ft. Collins	Logbook No.: HNF-N-506/01-35	Method of Shipment: Commercial Carrier	Ice Chest No.: GWS-166	
Protocol: SURV	Priority: 30 Days	Bill of Lading/Air Bill No.: 782811110171	Offsite Property No.: 0059	
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. B3K6P4 (1)	Filter N	Time 0855	No/Type Container 2x1-L G/P	SRISO_SEP_PRECIP_GPC: COMMON
Sample Analysis		Holding Time 6 Months	Preservative HNO3 to pH <2	

Relinquished By: Kathy Turner Signature: _____ Date/Time: SEP 17 2018 1145	Received By: Tim Callaway Signature: _____ Date/Time: 17 2018 1145
Relinquished By: Tim Callaway Signature: _____ Date/Time: SEP 17 2018 1700	Received By: FEDEX Signature: _____ Date/Time: _____
Relinquished By: FED EX Signature: _____ Date/Time: _____	Received By: Timusk Signature: _____ Date/Time: 9-18-18 0940
Relinquished By: _____ Signature: _____ Date/Time: _____	Received By: _____ Signature: _____ Date/Time: _____
Disposal Method (e.g., Return to customer, per lab procedure, used in process):	
FINAL SAMPLE DISPOSITION	Disposed By: _____ Date/Time: _____

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

SHIP DATE: 17SEP18
ACTWGT: 50.00 LB
CAD: 10706805/INLET4040
BILL THIRD PARTY

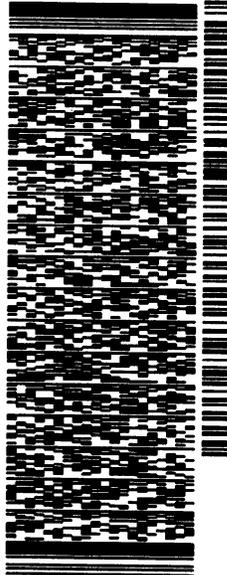
1809323

TO JULIE ELLINGSON
ALS GLOBAL
225 COMMERCE DRIVE

13-2
Amb

FORT COLLINS CO 80524
(970) 490-1511
INV
PO
REF: PTR89396/COOLEP8WS-393

552J1F78C/DCA5

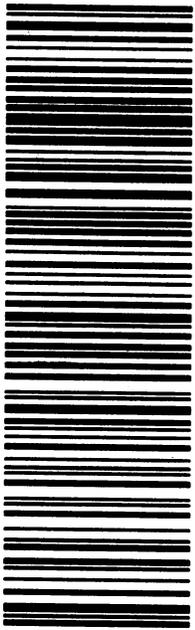


TRK# 7828 0763 6334
0201

TUE.. 18 SEP 10:30A
PRIORITY OVERNIGHT
DSR

XH FTCA

CO-US 80524
DEN



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Strontium-90 Case Narrative

CH2M HILL Plateau Remediation Company

AEA, SEPTEMBER 2018 – I18-016

Work Order Number: 1809323

1. The samples were prepared according to the current revision of SOP 707.
2. The samples were analyzed for the presence of ⁹⁰Sr according to the current revision of SOP 724. The analyses were completed on 09/29/2018.
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 these samples are reported in units of pCi/L. The samples were 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 the 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.

Jean Anderson
Jean Anderson
Radiochemistry Primary Data Reviewer

9/30/18
Date

Kath M. W.
Radiochemistry Final Data Reviewer

9/30/18
Date

Strontium-90 by GFPC

PAI 724 Rev 13

Method Blank Results

Lab Name: ALS -- Fort Collins
 Work Order Number: 1809323
 Client Name: CH2M HILL Plateau Remediation Company
 ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Lab ID: SR180926-3MB	Sample Matrix: WATER	Prep Batch: SR180926-3	Final Aliquot: 995 ml
	Prep SOP: PAI 707 Rev 14	QCBatchID: SR180926-3-1	Result Units: pCi/l
	Date Collected: 26-Sep-18	Run ID: SR180926-3A	File Name: SRC0929A
	Date Prepared: 26-Sep-18	Count Time: 90 minutes	
	Date Analyzed: 29-Sep-18		

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
10098-97-2	Sr-90	3.53E-01 +/- 3.11E-01	6.38E-01	1.00E+00	NA	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.010E+03	8.95E+02	ug	89.1	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.
 LT - Result is less than Requested MDC, greater than sample specific MDC.

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: SR1809323-1

Strontium-90 by GFPC

PAI 724 Rev 13

Laboratory Control Sample(s)

Lab Name: ALS -- Fort Collins
Work Order Number: 1809323
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Lab ID: SR180926-3LCS

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 14
Date Collected: 26-Sep-18
Date Prepared: 26-Sep-18
Date Analyzed: 29-Sep-18

Prep Batch: SR180926-3
QCBatchID: SR180926-3-1
Run ID: SR180926-3A
Count Time: 30 minutes

Final Aliquot: 995 ml
Result Units: pCi/l
File Name: SRC0929B

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
10098-97-2	Sr-90	1.06E+01 +/- 2.79E+00	1.16E+00	1.060E+01	99.4	75 - 125	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.010E+03	9.22E+02	ug	91.8	40 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than 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: SR1809323-1

Strontium-90 by GFPC

PAI 724 Rev 13

Laboratory Control Sample(s)

Lab Name: ALS -- Fort Collins
Work Order Number: 1809323
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Lab ID: SR180926-3LCSD	Sample Matrix: WATER	Prep Batch: SR180926-3	Final Aliquot: 995 ml
	Prep SOP: PAI 707 Rev 14	QCBatchID: SR180926-3-1	Result Units: pCi/l
	Date Collected: 26-Sep-18	Run ID: SR180926-3A	File Name: SRC0928
	Date Prepared: 26-Sep-18	Count Time: 30 minutes	
	Date Analyzed: 28-Sep-18		

CASNO	Target Nuclide	Results +/- 2s TPU	MDC	Spike Added	% Rec	Control Limits	Lab Qualifier
10098-97-2	Sr-90	1.15E+01 +/- 3.06E+00	1.35E+00	1.060E+01	108	75 - 125	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.010E+03	9.08E+02	ug	90.3	40 - 110 %	

Comments:

Qualifiers/Flags:

- U - Result is less than the sample specific MDC.
- LT - Result is less than Requested MDC, greater than 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: SR1809323-1

9/30/18

Strontium-90 by GFPC

PAI 724 Rev 13

Duplicate Sample Results (DER)

Lab Name: ALS -- Fort Collins

Work Order Number: 1809323

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Field ID:	
Lab ID:	SR180926-3LCSD

Sample Matrix: WATER

Prep SOP: PAI 707 Rev 14

Date Collected: 26-Sep-18

Date Prepared: 26-Sep-18

Date Analyzed: 28-Sep-18

Prep Batch: SR180926-3

QCBatchID: SR180926-3-1

Run ID: SR180926-3A

Count Time: 30 minutes

Final Aliquot: 995 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: SRC0928

CASNO	Analyte	Sample				Duplicate				DER	DER Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
10098-97-2	Sr-90	1.06E+01 +/-	2.79E+00	1.16E+00		1.15E+01 +/-	3.06E+00	1.35E+00		0.459	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: SR1809323-1

9/30/18

REV 0

Strontium-90 by GFPC

PAI 724 Rev 13

Duplicate Sample Results (RPD)

Lab Name: ALS -- Fort Collins

Work Order Number: 1809323

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Field ID:	
Lab ID:	SR180926-3LCSD

Sample Matrix: WATER

Prep SOP: PAI 707 Rev 14

Date Collected: 26-Sep-18

Date Prepared: 26-Sep-18

Date Analyzed: 28-Sep-18

Prep Batch: SR180926-3

QCBatchID: SR180926-3-1

Run ID: SR180926-3A

Count Time: 30 minutes

Final Aliquot: 995 ml

Prep Basis: Unfiltered

Moisture(%): NA

Result Units: pCi/l

File Name: SRC0928

CASNO	Analyte	Sample				Duplicate				RPD	RPD Lim
		Result +/-	2 s TPU	MDC	Flags	Result +/-	2 s TPU	MDC	Flags		
10098-97-2	Sr-90	1.06E+01 +/-	2.79E+00	1.16E+00		1.15E+01 +/-	3.06E+00	1.35E+00		9.00	20

Comments:**Qualifiers/Flags:**

+ - Duplicate RPD not within limits.

LT - Result is less than Request MDC, greater than sample specific MDC

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: SR1809323-1

Strontium-90 by GFPC

PAI 724 Rev 13

Sample Results

Lab Name: ALS -- Fort Collins
Work Order Number: 1809323
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Field ID:	B3K6P4
Lab ID:	1809323-1

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 14
Date Collected: 17-Sep-18
Date Prepared: 26-Sep-18
Date Analyzed: 29-Sep-18

Prep Batch: SR180926-3
QCBatchID: SR180926-3-1
Run ID: SR180926-3A
Count Time: 90 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: SRC0929

Analysis ReqCode: SRISO_SEP_PR

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
10098-97-2	Sr-90	1.06E+01 +/- 2.58E+00	6.01E-01	1E+00	NA	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.470E+03	1.38E+03	ug	94.4	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.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- 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: SR1809323-1

Strontium-90 by GFPC

PAI 724 Rev 13

Sample Results

Lab Name: ALS -- Fort Collins
 Work Order Number: 1809323
 Client Name: CH2M HILL Plateau Remediation Company
 ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Field ID:	B3KH70
Lab ID:	1809323-2

Sample Matrix: WATER
 Prep SOP: PAI 707 Rev 14
 Date Collected: 17-Sep-18
 Date Prepared: 26-Sep-18
 Date Analyzed: 29-Sep-18

Prep Batch: SR180926-3
 QCBatchID: SR180926-3-1
 Run ID: SR180926-3A
 Count Time: 90 minutes
 Report Basis: Unfiltered

Final Aliquot: 995 ml
 Prep Basis: Unfiltered
 Moisture(%): NA
 Result Units: pCi/l
 File Name: SRC0929

Analysis ReqCode: SRISO_SEP_PR

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
10098-97-2	Sr-90	-2.58E-02 +/- 2.47E-01	5.81E-01	1E+00	NA	U

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.310E+03	1.29E+03	ug	98.6	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.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- 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: SR1809323-1

Strontium-90 by GFPC

PAI 724 Rev 13

Sample Results

Lab Name: ALS -- Fort Collins
Work Order Number: 1809323
Client Name: CH2M HILL Plateau Remediation Company
ClientProject ID: AEA, SEPTEMBER 2018 I18-016

Field ID:	B3K6P3
Lab ID:	1809323-3

Sample Matrix: WATER
Prep SOP: PAI 707 Rev 14
Date Collected: 17-Sep-18
Date Prepared: 26-Sep-18
Date Analyzed: 29-Sep-18

Prep Batch: SR180926-3
QCBatchID: SR180926-3-1
Run ID: SR180926-3A
Count Time: 90 minutes
Report Basis: Unfiltered

Final Aliquot: 995 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: SRC0929

Analysis ReqCode: SRISO_SEP_PR

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	DL	Lab Qualifier
10098-97-2	Sr-90	1.07E+01 +/- 2.61E+00	6.39E-01	1E+00	NA	

Chemical Yield Summary

Carrier/Tracer	Amount Added	Result	Units	Yield	Control Limits	Flag
STRONTIUM	1.450E+03	1.36E+03	ug	94.0	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.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- 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: SR1809323-1

Prep Batch ID: SR180926-3

Start Date: 09/26/18	End Date: 09/26/18	Concentration Method: NONE	Batch Created By: rgs
Start Time: 17:55	End Time: 17:55	Extract Method: PAI 70714	Date Created: 09/26/18
Prep Analyst: Reilly G. Stockton		Initial Volume Units: ml	Time Created: 17:55
Comments:		Final Volume Units: ml	Validated By: rgs
<div style="border: 1px solid black; height: 30px; width: 100%;"></div>			Date Validated: 09/28/18
			Time Validated: 7:38

QC Batch ID: SR180926-3-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
SR180926-3	CAR	XXXXXX	WATER	XXXXXX	1000	1000	NONE	1	1808517
SR180926-3	MB	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1808517
SR180926-3	LCS	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1808517
SR180926-3	LCSD	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1808517
1808517-2	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1808517
1808517-3	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1808517
1808517-4	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1808517
1809323-1	SMP	B3K6P4	WATER	9/17/2018	1000	994.50	NONE	1	1809323
1809323-2	SMP	B3KH70	WATER	9/17/2018	1000	994.50	NONE	1	1809323
1809323-3	SMP	B3K6P3	WATER	9/17/2018	1000	994.50	NONE	1	1809323
1809370-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1809370
1809403-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1809403
1809403-3	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1809403
1809403-4	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1809403
1809459-2	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1809459
1809461-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1809461
1809466-1	SMP	XXXXXX	WATER	XXXXXX	1000	994.50	NONE	1	1809466

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		