TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Richland
2800 George Washington Way
Richland, WA 99352
Tel: (509)375-3131

TestAmerica Job ID: 300-6865-1
TestAmerica Sample Delivery Group: WC2764
Client Project/Site: W18-003

For:
CH2M Hill Plateau Remediation Company
825 Jadwin Avenue
Richland, Washington 99352

Attn: CPP Sample Management

Authorized for release by:
3/28/2018 11:23:01 AM

Ashley Worthy, Project Manager I
(509)375-3131
ashley.worthy@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a desingee as verified by the attached signature.

The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples.

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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 300-6865-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-6865-1

Comments
No additional comments.

Receipt
The samples were received on 3/13/2018 12:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4º C.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

REV.0

03/28/2018

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-003-178 Page 1 of 1

Collector: Juan Aguilar /CHPRC	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-003	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, MARCH 2018	**Logbook No.:** HNF-N-506-98/SL	**Ice Chest No.:** N/A
Shipped To (Lab): TestAmerica Incorporated, Rich	**Method of Shipment** GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:** N/A
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** N/A

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.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HK14	N	W	3-13-18	0936	1x125-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

6865
WC 2764

300-6865 COC

Relinquished By:	Received By:
Juan Aguilar /CHPRC — MAR 13 2018 0950 (Print First and Last Name / Signature / Date/Time)	Mike Esparza /CHPRC — MAR 13 2018 0950 (Print First and Last Name / Signature / Date/Time)
Mike Esparza /CHPRC — MAR 13 2018 1030 (Print First and Last Name / Signature / Date/Time)	Frank Hall /CHPRC — MAR 13 2018 1030 (Print First and Last Name / Signature / Date/Time)
Frank Hall /CHPRC — MAR 13 2018 1205 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — 3-13-18 1205 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *
S = Soil, DS = Drum Solids
SE = Sediment, DL = Drum Liquid
SO = Solid, T = Tissue
SL = Sludge, WI = Wipe
W = Water, L = Liquid
O = Oil, V = Vegetation
A = Air, X = Other

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

3/28/2018

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-003-166 Page 1 of 1

REV.0

3/28/2018

Collector: Juan Aguilar /CHPRC	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-003	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, MARCH 2018	**Logbook No.:** HNF-N-506-98156	**Ice Chest No.:** N/A
Shipped To (Lab): TestAmerica Incorporated, Rich	**Method of Shipment** GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:** N/A
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** N/A

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.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HKK7	N	W	3-13-18	0645	1x125-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

03/28/2018

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NC 2764

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Relinquished By	Received By	Matrix *
Juan Aguilar /CHPRC — MAR 13 2018 0950 (Print First and Last Name / Signature / Date/Time)	Mike Esparza /CHPRC — MAR 13 2018 0950 (Print First and Last Name / Signature / Date/Time)	S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solids; DL = Drum Liquid; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other
Mike Esparza /CHPRC — MAR 13 2018 1030 (Print First and Last Name / Signature / Date/Time)	Frank Hall /CHPRC — MAR 13 2018 1030 (Print First and Last Name / Signature / Date/Time)	
Frank Hall /CHPRC — MAR 13 2018 1205 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — 3-13-18 1205 (Print First and Last Name / Signature / Date/Time)	
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)	

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

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-003-175 Page 1 of 1

REV.0

3/28/2018

Collector: Dan Woehle CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: W18-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: RCRA, MARCH 2018	Logbook No.: HNF-N-506-99-15	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated, Rich	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.: N/A
Protocol RCRA	Priority: 30 Days	Offsite Property No.: N/A

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.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HKP5	N	W	MAR 13 2018	0907	1x125-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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WC 2764

Relinquished By:	Received By:
Dan Woehle CHPRC — Signature — MAR 13 2018 0940 (Print First and Last Name / Signature / Date/Time)	Mike Esparza /CHPRC — Signature — MAR 13 2018 0940 (Print First and Last Name / Signature / Date/Time)
Mike Esparza /CHPRC — Signature — MAR 13 2018 1630 (Print First and Last Name / Signature / Date/Time)	Frank Hall /CHPRC — Signature — MAR 13 2018 1030 (Print First and Last Name / Signature / Date/Time)
Frank Hall /CHPRC — Signature — MAR 13 2018 1205 (Print First and Last Name / Signature / Date/Time)	B. Jorgenson, TARL — Signature — 3-13-18 1205 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

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

REV.0

03/28/2018

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W18-003-167 Page 1 of 1

Collector: Juan Aguilar /CHPRC	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: W18-003	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: RCRA, MARCH 2018	**Logbook No.:** HNF-N-506-98156	**Ice Chest No.:** N/A
Shipped To (Lab): TestAmerica Incorporated, Rich	**Method of Shipment** GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:** N/A
Protocol RCRA	**Priority:** 30 Days	**Offsite Property No.:** N/A

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.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HKK8	N	W	3-13-18	0849	1x125-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

6865
WC 2764

Relinquished By	Signature	Date/Time	Received By	Signature	Date/Time
Juan Aguilar /CHPRC		MAR 13 2018 0950	Mike Esparza /CHPRC		MAR 13 2018 0950
Mike Esparza /CHPRC		MAR 13 2018 1030			MAR 13 2018 1030
Frank Hall /CHPRC		MAR 13 2018 1205	B.Jorgenson, TARL		3-13-18 1205

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

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

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-003

TestAmerica Job ID: 300-6865-1
SDG: WC2764

Client Sample ID: B3HK14 — Lab Sample ID: 300-6865-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	10	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.37	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.070	B D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	21	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B3HKK7 — Lab Sample ID: 300-6865-2

No Detections.

Client Sample ID: B3HKP5 — Lab Sample ID: 300-6865-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.2	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.46	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.066	B D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	17	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B3HKK8 — Lab Sample ID: 300-6865-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	18	D	0.14	0.070	mg/L	5		300.0	Total/NA
Fluoride	0.38	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.093	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	32	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-003

TestAmerica Job ID: 300-6865-1
SDG: WC2764

Client Sample ID: B3HK14

Lab Sample ID: 300-6865-1
Date Collected: 03/13/18 09:36
Matrix: Water
Date Received: 03/13/18 12:05

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13	D	0.40	0.20	mg/L			03/13/18 16:54	2
Nitrate as N	10	D	0.056	0.028	mg/L			03/13/18 16:54	2
Fluoride	0.37	D	0.10	0.050	mg/L			03/13/18 16:54	2
Nitrite as N	0.070	B D	0.076	0.038	mg/L			03/13/18 16:54	2
Sulfate	21	D	0.50	0.25	mg/L			03/13/18 16:54	2

Client Sample ID: B3HKK7

Lab Sample ID: 300-6865-2
Date Collected: 03/13/18 06:45
Matrix: Water
Date Received: 03/13/18 12:05

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U D	0.40	0.20	mg/L			03/13/18 16:38	2
Nitrate as N	0.028	U D	0.056	0.028	mg/L			03/13/18 16:38	2
Fluoride	0.050	U D	0.10	0.050	mg/L			03/13/18 16:38	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			03/13/18 16:38	2
Sulfate	0.25	U D	0.50	0.25	mg/L			03/13/18 16:38	2

Client Sample ID: B3HKP5

Lab Sample ID: 300-6865-3
Date Collected: 03/13/18 09:07
Matrix: Water
Date Received: 03/13/18 12:05

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2	D	0.40	0.20	mg/L			03/13/18 15:34	2
Nitrate as N	5.1	D	0.056	0.028	mg/L			03/13/18 15:34	2
Fluoride	0.46	D	0.10	0.050	mg/L			03/13/18 15:34	2
Nitrite as N	0.066	B D	0.076	0.038	mg/L			03/13/18 15:34	2
Sulfate	17	D	0.50	0.25	mg/L			03/13/18 15:34	2

Client Sample ID: B3HKK8

Lab Sample ID: 300-6865-4
Date Collected: 03/13/18 08:49
Matrix: Water
Date Received: 03/13/18 12:05

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	D	0.40	0.20	mg/L			03/13/18 16:22	2
Nitrate as N	18	D	0.14	0.070	mg/L			03/13/18 18:31	5
Fluoride	0.38	D	0.10	0.050	mg/L			03/13/18 16:22	2
Nitrite as N	0.093	D	0.076	0.038	mg/L			03/13/18 16:22	2
Sulfate	32	D	0.50	0.25	mg/L			03/13/18 16:22	2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-10609/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.014	U	0.028	0.014	mg/L			03/13/18 15:02	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			03/13/18 15:02	1

Lab Sample ID: LCS 300-10609/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.24		mg/L		99	80 - 120
Nitrite as N	3.04	3.15		mg/L		103	80 - 120

Lab Sample ID: 300-6865-3 MS — **Client Sample ID: B3HKP5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.1	D	0.452	5.49	D	mg/L		82	75 - 125
Nitrite as N	0.066	B D	0.609	0.543	D	mg/L		78	75 - 125

Lab Sample ID: 300-6865-3 DU — **Client Sample ID: B3HKP5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10609

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	5.1	D	5.11	D	mg/L		0.1	20
Nitrite as N	0.066	B D	0.0680	B D	mg/L		3	20

Lab Sample ID: MB 300-10610/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			03/13/18 15:02	1
Fluoride	0.025	U	0.050	0.025	mg/L			03/13/18 15:02	1
Sulfate	0.13	U	0.25	0.13	mg/L			03/13/18 15:02	1

Lab Sample ID: LCS 300-10610/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.2		mg/L		101	80 - 120
Fluoride	4.00	4.07		mg/L		102	80 - 120
Sulfate	20.0	20.2		mg/L		101	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-6865-3 MS — **Client Sample ID: B3HKP5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.2	D	3.20	10.3	D	mg/L		96	75 - 125
Fluoride	0.46	D	0.800	1.20	D	mg/L		93	75 - 125
Sulfate	17	D	4.00	21.3	D	mg/L		101	75 - 125

Lab Sample ID: 300-6865-3 DU — **Client Sample ID: B3HKP5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 10610

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	7.2	D	7.19	D	mg/L		0	20
Fluoride	0.46	D	0.458	D	mg/L		0.5	20
Sulfate	17	D	17.4	D	mg/L		0.3	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-003

TestAmerica Job ID: 300-6865-1
SDG: WC2764

HPLC/IC

Analysis Batch: 10609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6865-1	B3HK14	Total/NA	Water	300.0	
300-6865-2	B3HKK7	Total/NA	Water	300.0	
300-6865-3	B3HKP5	Total/NA	Water	300.0	
300-6865-4	B3HKK8	Total/NA	Water	300.0	
300-6865-4	B3HKK8	Total/NA	Water	300.0	
MB 300-10609/5	Method Blank	Total/NA	Water	300.0	
LCS 300-10609/6	Lab Control Sample	Total/NA	Water	300.0	
300-6865-3 MS	B3HKP5	Total/NA	Water	300.0	
300-6865-3 DU	B3HKP5	Total/NA	Water	300.0	

Analysis Batch: 10610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6865-1	B3HK14	Total/NA	Water	300.0	
300-6865-2	B3HKK7	Total/NA	Water	300.0	
300-6865-3	B3HKP5	Total/NA	Water	300.0	
300-6865-4	B3HKK8	Total/NA	Water	300.0	
MB 300-10610/5	Method Blank	Total/NA	Water	300.0	
LCS 300-10610/6	Lab Control Sample	Total/NA	Water	300.0	
300-6865-3 MS	B3HKP5	Total/NA	Water	300.0	
300-6865-3 DU	B3HKP5	Total/NA	Water	300.0	

Client Sample ID: B3HK14 — Lab Sample ID: 300-6865-1

Date Collected: 03/13/18 09:36 — **Matrix: Water**
Date Received: 03/13/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			10609	03/13/18 16:54	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10610	03/13/18 16:54	RTQ	TAL RCH

Client Sample ID: B3HKK7 — Lab Sample ID: 300-6865-2

Date Collected: 03/13/18 06:45 — **Matrix: Water**
Date Received: 03/13/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			10609	03/13/18 16:38	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10610	03/13/18 16:38	RTQ	TAL RCH

Client Sample ID: B3HKP5 — Lab Sample ID: 300-6865-3

Date Collected: 03/13/18 09:07 — **Matrix: Water**
Date Received: 03/13/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			10609	03/13/18 15:34	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10610	03/13/18 15:34	RTQ	TAL RCH

Client Sample ID: B3HKK8 — Lab Sample ID: 300-6865-4

Date Collected: 03/13/18 08:49 — **Matrix: Water**
Date Received: 03/13/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			10609	03/13/18 16:22	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10610	03/13/18 16:22	RTQ	TAL RCH
Total/NA	Analysis	300.0		5			10609	03/13/18 18:31	RTQ	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-10609/5

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			10609	03/13/18 15:02	RTQ	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-10610/5

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			10610	03/13/18 15:02	RTQ	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-003

TestAmerica Job ID: 300-6865-1
SDG: WC2764

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-10609/6

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			10609	03/13/18 15:18	RTQ	TAL RCH

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-10610/6

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			10610	03/13/18 15:18	RTQ	TAL RCH

Client Sample ID: B3HKP5 — Lab Sample ID: 300-6865-3 MS

Date Collected: 03/13/18 09:07 — **Matrix: Water**
Date Received: 03/13/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			10609	03/13/18 15:50	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10610	03/13/18 15:50	RTQ	TAL RCH

Client Sample ID: B3HKP5 — Lab Sample ID: 300-6865-3 DU

Date Collected: 03/13/18 09:07 — **Matrix: Water**
Date Received: 03/13/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			10609	03/13/18 16:06	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10610	03/13/18 16:06	RTQ	TAL RCH

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-003

TestAmerica Job ID: 300-6865-1
SDG: WC2764

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-003

TestAmerica Job ID: 300-6865-1
SDG: WC2764

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-6865-1	B3HK14	Water	03/13/18 09:36	03/13/18 12:05
300-6865-2	B3HKK7	Water	03/13/18 06:45	03/13/18 12:05
300-6865-3	B3HKP5	Water	03/13/18 09:07	03/13/18 12:05
300-6865-4	B3HKK8	Water	03/13/18 08:49	03/13/18 12:05

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-6865-1
SDG Number: WC2764

Login Number: 6865
List Number: 1
Creator: Jorgenson, Briana F

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	