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: 300-7464-1
TestAmerica Sample Delivery Group: WC3016
Client Project/Site: F16-046

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

Attn: CPP Sample Management

Authorized for release by:
6/29/2018 4:29:20 PM

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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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

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.

General Chemistry

Qualifier	Qualifier Description
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)

Case Narrative

Job ID: 300-7464-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-7464-1

Comments
No additional comments.

Receipt
The samples were received on 6/27/2018 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

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

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

SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0843
Rev. Number: 0
Date Initiated: 07/19/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): F16-046

LABORATORY: TARL

SAMPLING INFORMATION

NUMBER OF SAMPLES: 4

SAMPLE NUMBERS: B3JW81, B3JWC4, B3JWC5, B3JWD0

SAMPLE MATRIX: WATER

SDG NUM(S): WC3016

ISSUE BACKGROUND

CLASS: Chain of Custody Issue (Field)

TYPE: No/Illegible Relinquish/Receipt Date/Time

DESCRIPTION: On COC F16-046-1879, F16-046-1847, F16-046-1880, and F16-046-1885, the first relinquishment time is missing.

RESOLUTION

PROPOSED RESOLUTION: Document and close.

FINAL RESOLUTION: Document and close.

SUBMITTED BY:

GROWS, KRIS 07/18/2018

ACCEPTED BY:

CUTSFORTH, EC 07/19/2018

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1879	PAGE 1 OF 1
COLLECTOR: Juan Aguilar /CHPRC	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	REQUIRED TAT: 15 Days	
SAMPLING LOCATION: 289-T, Centrate Sample, Valve V11-Y95 A (A,B,C)	PROJECT DESIGNATION: 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO.: F16-046	ORIGINAL	
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-491-17/9	ACTUAL SAMPLE DEPTH: N/A	PURCHASE ORDER/CHARGE CODE: 304235	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JWC4	No	WATER	JUN 27 2018	1120	—

7464
WC3016

300-7464 COC

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018	Dan Woehle CHPRC	JUN 27 2018 1206
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SPECIAL INSTRUCTIONS
TRVL-18-129

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61703 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F16-046-1884 PAGE 1 OF 1

COLLECTOR Juan Aguilar /CHPRC	**COMPANY CONTACT** SUMNER, LC	**TELEPHONE NO.** 376-3922	**PROJECT COORDINATOR** SUMNER, LC
SAMPLING LOCATION 289-T Rotary Drum Thickener Filtrate Valve V12-Y70 (A,B,C)	**PROJECT DESIGNATION** 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		**SAF NO.** F16-046
ICE CHEST NO. N/A	**FIELD LOGBOOK NO.** HNF-N-491-178	**ACTUAL SAMPLE DEPTH** N/A	**PURCHASE ORDER/CHARGE CODE** 304235
SHIPPED TO TestAmerica Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

REQUIRED TAT 15 Days

ORIGINAL

METHOD OF SHIPMENT GOVERNMENT VEHICLE

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6; COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JWC9	No	WATER	JUN 27 2018	1104	✓

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018 1206	Dan Woehle CHPRC	JUN 27 2018 1206
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SPECIAL INSTRUCTIONS
TRVL-18-129

FINAL SAMPLE DISPOSITION | **DISPOSAL METHOD** | **DISPOSED BY** | **DATE/TIME**

PRINTED ON 5/17/2018 **FSR ID = FSR61704** **TRVL NUM = TRVL-18-129** A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1847	PAGE 1 OF 1
COLLECTOR Juan Aguilar /CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 15 Days	
SAMPLING LOCATION 289-TA, Post Tc99IX Resin Tanks, Valve V06-Y22	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO. F16-046	ORIGINAL	
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-491-17/9	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 304235	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6; COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW81	No	WATER	JUN 27 2018	1218	✓

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WC 3016

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME	SPECIAL INSTRUCTIONS
Juan Aguilar /CHPRC	JUN 27 2018	Dan Woehle CHPRC	JUN 27 2018 1305	TRVL-18-129
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30	

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61691 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1809	PAGE 1 OF 1
COLLECTOR Juan Aguilar /CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 15 Days	
SAMPLING LOCATION 289-T, Effluent Tank, Valve V20-Y80 B* DUP	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO. F16-046	ORIGINAL	
ICE CHEST NO. N/A	FIELD LOGBOOK NO. ~~N-INH~~ HNF-N- 491-17/8	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 304235	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	*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.	PRESERVATION	Cool <=6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	aG
		NO. OF CONTAINER(S)	1
		VOLUME	60mL
	SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE ANALYSIS	7196_CR6; COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW43	No	WATER	JUN 27 2018	0946	—

7464
WC 3046

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME	SPECIAL INSTRUCTIONS
Juan Aguilar /CHPRC	JUN 27 2018 1035	Dan Woehle CHPRC	JUN 27 2018 1035	TRVL-18-129
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holt TARL	JUN 27 2018 14:30	

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61709 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1801	PAGE 1 OF 1
COLLECTOR Juan Aguilar /CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 15 Days	
SAMPLING LOCATION 289-T, Effluent Tank, Valve V20-Y80D*	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO. F16-046	ORIGINAL	
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-491-17 / 8	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 304235	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW35	No	WATER	JUN 27 2018	0946	✓

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018 1035	Dan Woehle CHPRC	JUN 27 2018 1035
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-129

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61708 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1790	PAGE 1 OF 1
COLLECTOR: Juan Aguilar /CHPRC	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	REQUIRED TAT: 15 Days	
SAMPLING LOCATION: 289-T, Influent Tank, Valve V12-Y30_*	PROJECT DESIGNATION: 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO.: F16-046	ORIGINAL	
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-491-17/8	ACTUAL SAMPLE DEPTH: N/A	PURCHASE ORDER/CHARGE CODE: 304235	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6; COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW24	No	WATER	JUN 27 2018	0835	✓

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018 0950	Dan Woehle CHPRC	JUN 27 2018 0950
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-129

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61710 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1848	PAGE 1 OF 1
COLLECTOR: Juan Aguilar /CHPRC	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	REQUIRED TAT: 15 Days	
SAMPLING LOCATION: 289-TA, Post Tc99IX Resin Tanks, Valve V06-Y22	PROJECT DESIGNATION: 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO.: F16-046	ORIGINAL	
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-491-17/9	ACTUAL SAMPLE DEPTH: N/A	PURCHASE ORDER/CHARGE CODE: 304235	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW82	No	WATER	JUN 27 2018	1218	✓

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018 1305	Dan Woehle CHPRC	JUN 27 2018 1305
Dan Woehle CHPRC	JUN 27 2018 1430	T. Hoffman TARL	JUN 27 2018 14:30

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-129
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61691 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1880	PAGE 1 OF 1
COLLECTOR Juan Aguilar /CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 15 Days	
SAMPLING LOCATION 289-T, Centrate Sample, Valve V11-Y95 (A,B,C)	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO. F16-046	ORIGINAL	
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-491-17 / 9	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 304235	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JWC5	No	WATER	JUN 27 2018	1120	✓

7464
WC 3016

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018	Dan Woehle CHPRC	JUN 27 2018 1206
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SPECIAL INSTRUCTIONS
TRVL-18-129
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61703 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1885	PAGE 1 OF 1
COLLECTOR: Juan Aguilar /CHPRC	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	REQUIRED TAT: 15 Days	
SAMPLING LOCATION: 289-T Rotary Drum Thickener Filtrate Valve V12-Y70[illegible] (A,B,C)	PROJECT DESIGNATION: 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO.: F16-046	ORIGINAL	
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-491-17/8	ACTUAL SAMPLE DEPTH: N/A	PURCHASE ORDER/CHARGE CODE: 304235	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JWD0	No	WATER	JUN 27 2018	1104	—

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018	Dan Woehle CHPRC	JUN 27 2018 1106
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-129
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61704 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1810	PAGE 1 OF 1
COLLECTOR: Juan Aguilar /CHPRC	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	REQUIRED TAT: 15 Days	
SAMPLING LOCATION: 289-T, Effluent Tank, Valve V20-Y80 B* DUP	PROJECT DESIGNATION: 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO.: F16-046	ORIGINAL	
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-491-17/8	ACTUAL SAMPLE DEPTH: N/A	PURCHASE ORDER/CHARGE CODE: 304235	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW44	No	WATER	JUN 27 2018	0946	✓

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018 1035	Dan Woehle CHPRC	JUN 27 2018 1035
Dan Woehle CHPRC	JUN 27 2018 1430	T. Horm TARL	JUN 27 2018 14:30

SPECIAL INSTRUCTIONS
TRVL-18-129
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61709 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1791	PAGE 1 OF 1
COLLECTOR: Juan Aguilar /CHPRC	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	REQUIRED TAT 15 Days	
SAMPLING LOCATION: 289-T, Influent Tank, Valve V12-Y30_*	PROJECT DESIGNATION: 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO.: F16-046	ORIGINAL	
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-491-17/8	ACTUAL SAMPLE DEPTH: N/A	PURCHASE ORDER/CHARGE CODE: 304235	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW25	No	WATER	JUN 27 2018	0835	✓

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018 0950	Dan Woehle CHPRC	JUN 27 2018 0950
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-129
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61710 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-1802	PAGE 1 OF 1
COLLECTOR: Juan Aguilar /CHPRC	COMPANY CONTACT: SUMNER, LC	TELEPHONE NO.: 376-3922	PROJECT COORDINATOR: SUMNER, LC	REQUIRED TAT: 15 Days	
SAMPLING LOCATION: 289-T, Effluent Tank, Valve V20-Y80	PROJECT DESIGNATION: 200W Pump & Treat - Treatment Plant Compliance Sampling - Water		SAF NO.: F16-046	ORIGINAL	
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-491-17/8	ACTUAL SAMPLE DEPTH: N/A	PURCHASE ORDER/CHARGE CODE: 304235	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

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.

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3JW36	No	WATER	JUN 27 2018	0946	—

7464
WC 3016

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Juan Aguilar /CHPRC	JUN 27 2018 1035	Dan Woehle CHPRC	JUN 27 2018 1035
Dan Woehle CHPRC	JUN 27 2018 1430	T. Holm TARL	JUN 27 2018 14:30

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-129
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/17/2018 FSR ID = FSR61708 TRVL NUM = TRVL-18-129 A-6003-618 (REV 3)

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JWC4 — Lab Sample ID: 300-7464-1

No Detections.

Client Sample ID: B3JWC9 — Lab Sample ID: 300-7464-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0050		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3JW81 — Lab Sample ID: 300-7464-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.016		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3JW43 — Lab Sample ID: 300-7464-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0060		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3JW35 — Lab Sample ID: 300-7464-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0057		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3JW24 — Lab Sample ID: 300-7464-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.026		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3JW82 — Lab Sample ID: 300-7464-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	34	D	0.28	0.14	mg/L	10		300.0	Total/NA
Fluoride	0.45	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	96	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.22	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B3JWC5 — Lab Sample ID: 300-7464-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	50	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	50	D	0.56	0.28	mg/L	20		300.0	Total/NA
Fluoride	0.34	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	2.1	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	53	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.20	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B3JWD0 — Lab Sample ID: 300-7464-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	39	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.34	D	0.10	0.050	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JWD0 (Continued) — Lab Sample ID: 300-7464-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrite as N	0.25	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	58	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.22	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B3JW44 — Lab Sample ID: 300-7464-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	45	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	8.3	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.35	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.78	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	92	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.21	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B3JW25 — Lab Sample ID: 300-7464-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	29	D	0.28	0.14	mg/L	10		300.0	Total/NA
Fluoride	0.36	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	65	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.23	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B3JW36 — Lab Sample ID: 300-7464-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	45	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	8.3	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.36	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.77	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	92	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.21	B D	0.25	0.13	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: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JWC4 — Lab Sample ID: 300-7464-1

Date Collected: 06/27/18 11:20
Date Received: 06/27/18 14:30
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/27/18 16:56	1

Client Sample ID: B3JWC9 — Lab Sample ID: 300-7464-2

Date Collected: 06/27/18 11:04
Date Received: 06/27/18 14:30
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0050		0.0040	0.0015	mg/L			06/27/18 16:57	1

Client Sample ID: B3JW81 — Lab Sample ID: 300-7464-3

Date Collected: 06/27/18 12:18
Date Received: 06/27/18 14:30
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.016		0.0040	0.0015	mg/L			06/27/18 16:57	1

Client Sample ID: B3JW43 — Lab Sample ID: 300-7464-4

Date Collected: 06/27/18 09:46
Date Received: 06/27/18 14:30
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0060		0.0040	0.0015	mg/L			06/27/18 16:58	1

Client Sample ID: B3JW35 — Lab Sample ID: 300-7464-5

Date Collected: 06/27/18 09:46
Date Received: 06/27/18 14:30
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0057		0.0040	0.0015	mg/L			06/27/18 17:01	1

Client Sample ID: B3JW24 — Lab Sample ID: 300-7464-6

Date Collected: 06/27/18 08:35
Date Received: 06/27/18 14:30
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.026		0.0040	0.0015	mg/L			06/27/18 17:01	1

Client Sample ID: B3JW82 — Lab Sample ID: 300-7464-7

Date Collected: 06/27/18 12:18
Date Received: 06/27/18 14:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22	D	0.40	0.20	mg/L			06/27/18 23:27	2
Nitrate as N	34	D	0.28	0.14	mg/L			06/28/18 04:49	10
Fluoride	0.45	D	0.10	0.050	mg/L			06/27/18 23:27	2

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JW82 — Lab Sample ID: 300-7464-7

Date Collected: 06/27/18 12:18
Date Received: 06/27/18 14:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/27/18 23:27	2
Sulfate	96	D	0.50	0.25	mg/L			06/27/18 23:27	2
Bromide	0.22	B D	0.25	0.13	mg/L			06/27/18 23:27	2

Client Sample ID: B3JWC5 — Lab Sample ID: 300-7464-8

Date Collected: 06/27/18 11:20
Date Received: 06/27/18 14:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50	D	0.40	0.20	mg/L			06/27/18 23:43	2
Nitrate as N	50	D	0.56	0.28	mg/L			06/28/18 05:05	20
Fluoride	0.34	D	0.10	0.050	mg/L			06/27/18 23:43	2
Nitrite as N	2.1	D	0.076	0.038	mg/L			06/27/18 23:43	2
Sulfate	53	D	0.50	0.25	mg/L			06/27/18 23:43	2
Bromide	0.20	B D	0.25	0.13	mg/L			06/27/18 23:43	2

Client Sample ID: B3JWD0 — Lab Sample ID: 300-7464-9

Date Collected: 06/27/18 11:04
Date Received: 06/27/18 14:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39	D	0.40	0.20	mg/L			06/28/18 00:32	2
Nitrate as N	6.6	D	0.056	0.028	mg/L			06/28/18 00:32	2
Fluoride	0.34	D	0.10	0.050	mg/L			06/28/18 00:32	2
Nitrite as N	0.25	D	0.076	0.038	mg/L			06/28/18 00:32	2
Sulfate	58	D	0.50	0.25	mg/L			06/28/18 00:32	2
Bromide	0.22	B D	0.25	0.13	mg/L			06/28/18 00:32	2

Client Sample ID: B3JW44 — Lab Sample ID: 300-7464-10

Date Collected: 06/27/18 09:46
Date Received: 06/27/18 14:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45	D	0.40	0.20	mg/L			06/28/18 00:48	2
Nitrate as N	8.3	D	0.056	0.028	mg/L			06/28/18 00:48	2
Fluoride	0.35	D	0.10	0.050	mg/L			06/28/18 00:48	2
Nitrite as N	0.78	D	0.076	0.038	mg/L			06/28/18 00:48	2
Sulfate	92	D	0.50	0.25	mg/L			06/28/18 00:48	2
Bromide	0.21	B D	0.25	0.13	mg/L			06/28/18 00:48	2

Client Sample ID: B3JW25 — Lab Sample ID: 300-7464-11

Date Collected: 06/27/18 08:35
Date Received: 06/27/18 14:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26	D	0.40	0.20	mg/L			06/28/18 01:04	2

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JW25

Lab Sample ID: 300-7464-11
Date Collected: 06/27/18 08:35
Matrix: Water
Date Received: 06/27/18 14:30

Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	29	D	0.28	0.14	mg/L			06/28/18 06:25	10
Fluoride	0.36	D	0.10	0.050	mg/L			06/28/18 01:04	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/28/18 01:04	2
Sulfate	65	D	0.50	0.25	mg/L			06/28/18 01:04	2
Bromide	0.23	B D	0.25	0.13	mg/L			06/28/18 01:04	2

Client Sample ID: B3JW36

Lab Sample ID: 300-7464-12
Date Collected: 06/27/18 09:46
Matrix: Water
Date Received: 06/27/18 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45	D	0.40	0.20	mg/L			06/28/18 01:20	2
Nitrate as N	8.3	D	0.056	0.028	mg/L			06/28/18 01:20	2
Fluoride	0.36	D	0.10	0.050	mg/L			06/28/18 01:20	2
Nitrite as N	0.77	D	0.076	0.038	mg/L			06/28/18 01:20	2
Sulfate	92	D	0.50	0.25	mg/L			06/28/18 01:20	2
Bromide	0.21	B D	0.25	0.13	mg/L			06/28/18 01:20	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-12130/35 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12130

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			06/27/18 21:19	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/27/18 21:19	1

Lab Sample ID: LCS 300-12130/36 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.34		mg/L		104	80 - 120
Nitrite as N	3.04	3.23		mg/L		106	80 - 120

Lab Sample ID: 300-7466-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.099	D	0.452	0.496	D	mg/L		88	75 - 125
Nitrite as N	0.038	U D	0.609	0.545	D	mg/L		90	75 - 125

Lab Sample ID: 300-7466-A-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12130

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.099	D	0.0980	D	mg/L		1	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-12131/35 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			06/27/18 21:19	1
Fluoride	0.025	U	0.050	0.025	mg/L			06/27/18 21:19	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/27/18 21:19	1
Bromide	0.063	U	0.13	0.063	mg/L			06/27/18 21:19	1

Lab Sample ID: LCS 300-12131/36 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.7		mg/L		105	80 - 120
Fluoride	4.00	4.12		mg/L		103	80 - 120
Sulfate	20.0	20.9		mg/L		104	80 - 120
Bromide	10.0	10.2		mg/L		102	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-7466-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.9	D	3.20	13.2	D	mg/L		104	75 - 125
Fluoride	0.17	D	0.800	0.908	D	mg/L		92	75 - 125
Sulfate	55	D	4.00	59.1	D	mg/L		90	75 - 125
Bromide	0.22	B D	2.00	1.94	D	mg/L		86	75 - 125

Lab Sample ID: 300-7466-A-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12131

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	9.9	D	9.78	D	mg/L		2	20
Fluoride	0.17	D	0.173	D	mg/L		1	20
Sulfate	55	D	54.7	D	mg/L		1	20
Bromide	0.22	B D	0.220	B D	mg/L		1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-12151/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/27/18 16:53	1

Lab Sample ID: LCS 300-12151/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.258		mg/L		103	80 - 120

Lab Sample ID: 300-7464-1 MS — **Client Sample ID: B3JWC4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0015	U	0.0501	0.0392		mg/L		78	75 - 125

Lab Sample ID: 300-7464-1 DU — **Client Sample ID: B3JWC4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 12151

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.0015	U	0.0015	U	mg/L		NC	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

HPLC/IC

Analysis Batch: 12130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-7464-7	B3JW82	Total/NA	Water	300.0	
300-7464-7	B3JW82	Total/NA	Water	300.0	
300-7464-8	B3JWC5	Total/NA	Water	300.0	
300-7464-8	B3JWC5	Total/NA	Water	300.0	
300-7464-9	B3JWD0	Total/NA	Water	300.0	
300-7464-10	B3JW44	Total/NA	Water	300.0	
300-7464-11	B3JW25	Total/NA	Water	300.0	
300-7464-11	B3JW25	Total/NA	Water	300.0	
300-7464-12	B3JW36	Total/NA	Water	300.0	
MB 300-12130/35	Method Blank	Total/NA	Water	300.0	
LCS 300-12130/36	Lab Control Sample	Total/NA	Water	300.0	
300-7466-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
300-7466-A-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 12131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-7464-7	B3JW82	Total/NA	Water	300.0	
300-7464-8	B3JWC5	Total/NA	Water	300.0	
300-7464-9	B3JWD0	Total/NA	Water	300.0	
300-7464-10	B3JW44	Total/NA	Water	300.0	
300-7464-11	B3JW25	Total/NA	Water	300.0	
300-7464-12	B3JW36	Total/NA	Water	300.0	
MB 300-12131/35	Method Blank	Total/NA	Water	300.0	
LCS 300-12131/36	Lab Control Sample	Total/NA	Water	300.0	
300-7466-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
300-7466-A-1 DU	Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 12151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-7464-1	B3JWC4	Total/NA	Water	7196A	
300-7464-2	B3JWC9	Total/NA	Water	7196A	
300-7464-3	B3JW81	Total/NA	Water	7196A	
300-7464-4	B3JW43	Total/NA	Water	7196A	
300-7464-5	B3JW35	Total/NA	Water	7196A	
300-7464-6	B3JW24	Total/NA	Water	7196A	
MB 300-12151/3	Method Blank	Total/NA	Water	7196A	
LCS 300-12151/4	Lab Control Sample	Total/NA	Water	7196A	
300-7464-1 MS	B3JWC4	Total/NA	Water	7196A	
300-7464-1 DU	B3JWC4	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JWC4 — Lab Sample ID: 300-7464-1

Date Collected: 06/27/18 11:20 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 16:56	HR	TAL RCH

Client Sample ID: B3JWC9 — Lab Sample ID: 300-7464-2

Date Collected: 06/27/18 11:04 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 16:57	HR	TAL RCH

Client Sample ID: B3JW81 — Lab Sample ID: 300-7464-3

Date Collected: 06/27/18 12:18 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 16:57	HR	TAL RCH

Client Sample ID: B3JW43 — Lab Sample ID: 300-7464-4

Date Collected: 06/27/18 09:46 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 16:58	HR	TAL RCH

Client Sample ID: B3JW35 — Lab Sample ID: 300-7464-5

Date Collected: 06/27/18 09:46 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 17:01	HR	TAL RCH

Client Sample ID: B3JW24 — Lab Sample ID: 300-7464-6

Date Collected: 06/27/18 08:35 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 17:01	HR	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JW82 — Lab Sample ID: 300-7464-7

Date Collected: 06/27/18 12:18 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/27/18 23:27	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/27/18 23:27	RTQ	TAL RCH
Total/NA	Analysis	300.0		10			12130	06/28/18 04:49	RTQ	TAL RCH

Client Sample ID: B3JWC5 — Lab Sample ID: 300-7464-8

Date Collected: 06/27/18 11:20 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/27/18 23:43	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/27/18 23:43	RTQ	TAL RCH
Total/NA	Analysis	300.0		20			12130	06/28/18 05:05	RTQ	TAL RCH

Client Sample ID: B3JWD0 — Lab Sample ID: 300-7464-9

Date Collected: 06/27/18 11:04 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/28/18 00:32	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/28/18 00:32	RTQ	TAL RCH

Client Sample ID: B3JW44 — Lab Sample ID: 300-7464-10

Date Collected: 06/27/18 09:46 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/28/18 00:48	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/28/18 00:48	RTQ	TAL RCH

Client Sample ID: B3JW25 — Lab Sample ID: 300-7464-11

Date Collected: 06/27/18 08:35 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/28/18 01:04	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/28/18 01:04	RTQ	TAL RCH
Total/NA	Analysis	300.0		10			12130	06/28/18 06:25	RTQ	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: B3JW36 — Lab Sample ID: 300-7464-12

Date Collected: 06/27/18 09:46 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/28/18 01:20	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/28/18 01:20	RTQ	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-12130/35

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			12130	06/27/18 21:19	RTQ	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-12131/35

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			12131	06/27/18 21:19	RTQ	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-12151/3

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	7196A		1			12151	06/27/18 16:53	HR	TAL RCH

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-12130/36

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			12130	06/27/18 21:35	RTQ	TAL RCH

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-12131/36

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			12131	06/27/18 21:35	RTQ	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-12151/4

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	7196A		1			12151	06/27/18 16:53	HR	TAL RCH

Client Sample ID: B3JWC4 — Lab Sample ID: 300-7464-1 MS

Date Collected: 06/27/18 11:20 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 16:53	HR	TAL RCH

Client Sample ID: Matrix Spike — Lab Sample ID: 300-7466-A-1 MS

Date Collected: 06/27/18 10:35 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/27/18 22:07	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/27/18 22:07	RTQ	TAL RCH

Client Sample ID: B3JWC4 — Lab Sample ID: 300-7464-1 DU

Date Collected: 06/27/18 11:20 — **Matrix: Water**
Date Received: 06/27/18 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			12151	06/27/18 16:56	HR	TAL RCH

Client Sample ID: Duplicate — Lab Sample ID: 300-7466-A-1 DU

Date Collected: 06/27/18 10:35 — **Matrix: Water**
Date Received: 06/27/18 14:30

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			12130	06/27/18 22:23	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			12131	06/27/18 22:23	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: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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: F16-046

TestAmerica Job ID: 300-7464-1
SDG: WC3016

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-7464-1	B3JWC4	Water	06/27/18 11:20	06/27/18 14:30
300-7464-2	B3JWC9	Water	06/27/18 11:04	06/27/18 14:30
300-7464-3	B3JW81	Water	06/27/18 12:18	06/27/18 14:30
300-7464-4	B3JW43	Water	06/27/18 09:46	06/27/18 14:30
300-7464-5	B3JW35	Water	06/27/18 09:46	06/27/18 14:30
300-7464-6	B3JW24	Water	06/27/18 08:35	06/27/18 14:30
300-7464-7	B3JW82	Water	06/27/18 12:18	06/27/18 14:30
300-7464-8	B3JWC5	Water	06/27/18 11:20	06/27/18 14:30
300-7464-9	B3JWD0	Water	06/27/18 11:04	06/27/18 14:30
300-7464-10	B3JW44	Water	06/27/18 09:46	06/27/18 14:30
300-7464-11	B3JW25	Water	06/27/18 08:35	06/27/18 14:30
300-7464-12	B3JW36	Water	06/27/18 09:46	06/27/18 14:30

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-7464-1
SDG Number: WC3016

Login Number: 7464
List Number: 1
Creator: Holm, Tina R

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.	N/A	
Sample Preservation Verified.	N/A	
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	