

June 7, 2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

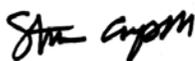
ANALYTICAL REPORT

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

TestAmerica Job ID: 300-3025-1
TestAmerica Sample Delivery Group: WC1062
Client Project/Site: F16-020

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600
Mail Stop R3-50
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:
6/7/2016 10:32:49 AM
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Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
whitney.ritari@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 designee 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. The sample/ sample duplicate RPD agreement is not applicable if one or both results are less than five times the MDL.



LINKS

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TotalAccess

Have a Question?



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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
 SDG: WC1062

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
D	The reported value is from a dilution.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
SDG: WC1062

Job ID: 300-3025-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3025-1

Comments

No additional comments.

Receipt

The samples were received on 5/10/2016 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.8° C.

General Chemistry

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

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CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-706	PAGE 1 OF 1
COLLECTOR <i>Antonio Jaives</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C952, Core 23, B341D1	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. <i>N/A</i>	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>	ORIGINAL
ICE CHEST NO. <i>N/A</i>	ACTUAL SAMPLE DEPTH <i>153.7-155.7</i>	COA 302632	METHOD OF SHIPMENT GOVERNMENT VEHICLE	BILL OF LADING/AIR BILL NO. <i>Company Vehicle 5-09-16</i>	
SHIPPED TO TesaAmerica Incorporated, Richland	OFFSITE PROPERTY NO. <i>N/A</i>	PRESERVATION Cool <=6C	None	<i>N/A</i>	

MATRIX*	SPECIAL HANDLING AND/OR STORAGE	NO. OF CONTAINER(S)	VOLUME	HOLDING TIME	TYPE OF CONTAINER	SAMPLE ANALYSIS	
						SAMPLE DATE	SAMPLE TIME
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	<i>N/A</i>	1	60ml	30 Days	G/P	7195, CR6; COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
B355W3	SOIL	1	60ml	30 Days	G/P	7195, CR6; COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

300-3025 CO



CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Antonio Jaives</i>	RECEIVED BY/STORED IN <i>Bob S-10-16</i>	Sample From HEIS #: <i>B341D1</i> Actual Aliquot Collection Depth: <i>153.7-155.7</i> (1) GAMMA_GS: COMMON; ANCMISO_EIE_PLATE_AEA: COMMON; PUISO_PLATE_AEA: COMMON {Plutonium-238, Plutonium-239/240}; UIISO_PLATE_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238}; C14_LSC: COMMON; I129_SEP_LEPS_GS: COMMON; NI63_LSC: COMMON; NP237_LLE_PLATE_AEA: COMMON; SRTOT_SEP_PRECIP_GPC: COMMON {Total beta radiostrontium}; TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	

LABORATORY SECTION	RECEIVED BY	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME

PRINTED ON 5/4/2016 FSR ID = FSR32135 TRVL NUM = TRVL-16-136 A-6003-618 (REV 2)

6/7/2016



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-713	PAGE 1 OF 1
COLLECTOR <i>Maria Jaires</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9552, Core 15, B341B5 DUP	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. N/A	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT FEDERAL EXPRESS
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	ACTUAL SAMPLE DEPTH 113.2-116.2	COA 302632	BILL OF LADING/AIR BILL NO. <i>Company Vehicle 5-9-16</i>	
SHIPPED TO TestAmerica Incorporated, Richland	<p style="text-align: right;">ORIGINAL</p>				

MATRIX*	POSSIBLE SAMPLE HAZARDS/REMARKS	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
A=Air DI=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, NA	Cool <=6C	30 Days	G/P	1	60mL	7196, CR6; COMMON; SEE ITEM (1) IN SPECIAL INSTRUCTIONS
B35KB1							

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B35KB1	SOIL	5-09-16	1200	X	X

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Maria Jaires</i>	RECEIVED BY/STORED IN <i>J. Bock</i>	Sample From HEIS #: <i>B341B5</i> Actual Aliquot Collection Depth: <i>113.2-116.2</i>
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	(1) GAMMA_GS: COMMON; AMCMISO_EIE_PLATE_AEA: COMMON; PUISO_PLATE_AEA: COMMON {Plutonium-238, Plutonium-239/240}; UISO_PLATE_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238}; C14_LSC: COMMON; I129_SEP_LEPS_GS: COMMON; NI63_LSC: COMMON; NP237_LLE_PLATE_AEA: COMMON; SR101_SEP_PRECIP_GPC: COMMON {Total beta radiostrontium}; TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COLLECTOR: Antonio James
SAMPLING LOCATION: G952, Core 16, B341B7
ICE CHEST NO.: N/A
SHIPPED TO: TestAmerica Incorporated, Richland

COMPANY CONTACT: TODAY, D
PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling
FIELD LOGBOOK NO.: N/A
OFFSITE PROPERTY NO.: N/A

TELEPHONE NO.: 376-6427
ACTUAL SAMPLE DEPTH: 1175-121.6
PROJECT COORDINATOR: TODAY, D
SAF NO.: F16-020
COA: 302632
BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8H
AIR QUALITY:
METHOD OF SHIPMENT: GOVERNMENT VEHICLE
DATE: 5-08-16
TURNAROUND: 30 Days / 30 Days
ORIGINAL

F16-020-703 **PAGE 1 OF 1**

MATRIX*: A=Air, DI=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/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1, NA

SPECIAL HANDLING AND/OR STORAGE: N/A

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
B355W0	SOIL	5-09-16	1530	Cool <=6C	30 Days	GP	1	60ml	7196, GR6: COMMON;
				None	6 Months	GP	1	500ml	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Antonio James	5-10-16/1615	J. Bock, TARI	5-10-16/1615
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS:

Sample From HEIS #: B341B7 Actual Aliquot Collection
 Depth: 1175-121.6

(1) GAMMA_GS: COMMON; AMCMISO_EIE_PLATE_AEA: COMMON;
 PUISO_PLATE_AEA: COMMON {Plutonium-238, Plutonium-239/240};
 UISO_PLATE_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238};
 C14_LSC: COMMON; I129_SEP_LEPS_GS: COMMON; NI63_LSC: COMMON;
 NP237_LLE_PLATE_AEA: COMMON;
 SRTOT_SEP_PRECIP_GPC: COMMON {total beta radiostrontium};
 TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;

LABORATORY SECTION RECEIVED BY

FINAL SAMPLE DISPOSITION DISPOSAL METHOD

PRINTED ON 5/4/2016 **FSR ID = FSR32134** **TRVL NUM = TRVL-16-136**

DATE/TIME DATE/TIME

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		PAGE 1 OF 1	
COLLECTOR <i>Anaonia Taines</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9552, Optional Core #2, B34K33	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. N/A	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>	ORIGINAL
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	ACTUAL SAMPLE DEPTH 184.6 - 186.6	COA 302632	METHOD OF SHIPMENT GOVERNMENT VEHICLE Company Vehicle	5-10-15
SHIPPED TO TestAmerica Incorporated, Richland			BILL OF LADING/AIR BILL NO. N/A		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	PRESERVATION		HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SPECIAL HANDLING AND/OR STORAGE	REMARKS
				Cool <=6C	None						
B35JF3	SOIL	5-10-16	1330	X	X						

*B3025
u c1002*

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM <i>Anaonia Taines</i>	DATE/TIME 5-10-16/1615	RECEIVED BY/STORED IN <i>J. Beck</i>	DATE/TIME 5-10-16/1615
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

SPECIAL INSTRUCTIONS
 Sample From HEIS #: B34K33 Actual Aliquot Collection
 Depth: 184.6 - 186.6
 (1) GAMMA_GS: COMMON; AMCMISO_EIE_PLATE_AEA: COMMON;
 PUISO_PLATE_AEA: COMMON {Plutonium-238, Plutonium-239/240};
 UISO_PLATE_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238};
 C14_LSC: COMMON; I129_SEP_LEPS_GS: COMMON; NI63_LSC: COMMON;
 NP237_LLE_PLATE_AEA: COMMON;
 SR10T_SEP_PRECIP_GPC: COMMON {total beta radiostrontium};
 TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;

CH2M Hill Plateau Remediation Company

COLLECTOR: *An Tario Jaimes*

SAMPLING LOCATION: C9552, Core 27, B341D9

ICE CHEST NO.: *NA*

SHIPPED TO: TestAmerica Incorporated, Richland

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COMPANY CONTACT: TODAK, D 376-6427

TELEPHONE NO.: 376-6427

PROJECT COORDINATOR: TODAK, D

PRICE CODE: 8H

PAGE 1 OF 1

PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling

FIELD LOGBOOK NO.: *N/A*

ACTUAL SAMPLE DEPTH: 173.3-176.3

SAF NO.: F16-020

AIR QUALITY:

DATA TURNAROUND: 30 Days / 30 Days

OFFSITE PROPERTY NO.: *N/A*

COA: 302632

METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~

BILL OF LADING/AIR BILL NO.: *Company Vehicle*

ORIGINAL

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	PRESERVATION		NO. OF CONTAINER(S)	VOLUME	TYPE OF CONTAINER	HOLDING TIME	SPECIAL HANDLING AND/OR STORAGE
				Cool <=6C	None					
B35JF0	SOIL	5-10-16	1130	X	X	1	60mL	G/P	30 Days	
						1	500mL	G/P	6 Months	

302632
use 1002

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
<i>Antonio Jaimes</i>	5-10-16/1615	<i>Bob J. Beck</i>	5-10-16/1615
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

Sample From HEIS #: *B341D9* Actual Aliquot Collection

Depth: *173.3 - 176.3*

(1) GAMMA_GS: COMMON; AMCMISO_EIE_PLATE_AEA: COMMON; PUISO_PLATE_AEA: COMMON {Plutonium-238, Plutonium-239/240}; UISO_PLATE_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238}; C14_LSC: COMMON; I129_SEP_LEPS_GS: COMMON; NI63_LSC: COMMON; NP237_LLE_PLATE_AEA: COMMON; SRTOT_SEP_PRECIP_GPC: COMMON {Total beta radiostrontium}; TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;

LABORATORY SECTION RECEIVED BY

FINAL SAMPLE DISPOSITION DISPOSAL METHOD

PRINTED ON 5/4/2016

FSR ID = FSR32130

TRVL NUM = TRVL-16-136

DATE/TIME

June 7, 2016

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
SDG: WC1062

Client Sample ID: B355W3

Lab Sample ID: 300-3025-1

No Detections.

Client Sample ID: B35KB1

Lab Sample ID: 300-3025-2

No Detections.

Client Sample ID: B355V8

Lab Sample ID: 300-3025-3

No Detections.

Client Sample ID: B355W0

Lab Sample ID: 300-3025-4

No Detections.

Client Sample ID: B35JF3

Lab Sample ID: 300-3025-5

No Detections.

Client Sample ID: B35JF0

Lab Sample ID: 300-3025-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
 SDG: WC1062

Client Sample ID: B355W3
Date Collected: 05/09/16 16:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-1
Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		05/25/16 09:03	05/25/16 17:25	1

Client Sample ID: B35KB1
Date Collected: 05/09/16 12:00
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-2
Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		05/25/16 09:03	05/25/16 17:25	1

Client Sample ID: B355V8
Date Collected: 05/09/16 12:00
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-3
Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		05/25/16 09:03	05/25/16 17:25	1

Client Sample ID: B355W0
Date Collected: 05/09/16 15:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-4
Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		05/25/16 09:03	05/25/16 17:25	1

Client Sample ID: B35JF3
Date Collected: 05/10/16 13:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-5
Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		05/25/16 09:03	05/25/16 17:25	1

Client Sample ID: B35JF0
Date Collected: 05/10/16 11:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-6
Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		05/25/16 09:03	05/25/16 17:25	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
SDG: WC1062

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4306/1-A
Matrix: Solid
Analysis Batch: 4358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		05/25/16 09:03	05/25/16 17:25	1

Lab Sample ID: LCS 300-4306/2-A
Matrix: Solid
Analysis Batch: 4358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	20.0	19.50		mg/Kg		98	85 - 115

Lab Sample ID: 300-3025-1 MS
Matrix: Soil
Analysis Batch: 4358

Client Sample ID: B355W3
Prep Type: Total/NA
Prep Batch: 4306

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.15	U	30.0	26.98		mg/Kg		90	75 - 125

Lab Sample ID: 300-3025-1 MSI
Matrix: Soil
Analysis Batch: 4358

Client Sample ID: B355W3
Prep Type: Total/NA
Prep Batch: 4306

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.15	U	714	731.9	D	mg/Kg		102	

Lab Sample ID: 300-3025-1 DU
Matrix: Soil
Analysis Batch: 4358

Client Sample ID: B355W3
Prep Type: Total/NA
Prep Batch: 4306

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.15	U	0.15	U	mg/Kg		NC	35

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
 SDG: WC1062

General Chemistry

Prep Batch: 4306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3025-1	B355W3	Total/NA	Soil	3060A	
300-3025-1 DU	B355W3	Total/NA	Soil	3060A	
300-3025-1 MS	B355W3	Total/NA	Soil	3060A	
300-3025-1 MSI	B355W3	Total/NA	Soil	3060A	
300-3025-2	B35KB1	Total/NA	Soil	3060A	
300-3025-3	B355V8	Total/NA	Soil	3060A	
300-3025-4	B355W0	Total/NA	Soil	3060A	
300-3025-5	B35JF3	Total/NA	Soil	3060A	
300-3025-6	B35JF0	Total/NA	Soil	3060A	
LCS 300-4306/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 300-4306/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 4358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3025-1	B355W3	Total/NA	Soil	7196A	4306
300-3025-1 DU	B355W3	Total/NA	Soil	7196A	4306
300-3025-1 MS	B355W3	Total/NA	Soil	7196A	4306
300-3025-1 MSI	B355W3	Total/NA	Soil	7196A	4306
300-3025-2	B35KB1	Total/NA	Soil	7196A	4306
300-3025-3	B355V8	Total/NA	Soil	7196A	4306
300-3025-4	B355W0	Total/NA	Soil	7196A	4306
300-3025-5	B35JF3	Total/NA	Soil	7196A	4306
300-3025-6	B35JF0	Total/NA	Soil	7196A	4306
LCS 300-4306/2-A	Lab Control Sample	Total/NA	Solid	7196A	4306
MB 300-4306/1-A	Method Blank	Total/NA	Solid	7196A	4306

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
SDG: WC1062

Client Sample ID: B355W3
Date Collected: 05/09/16 16:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-1
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5044 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5044 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: B35KB1
Date Collected: 05/09/16 12:00
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-2
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5126 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5126 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: B355V8
Date Collected: 05/09/16 12:00
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-3
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5086 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5086 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: B355W0
Date Collected: 05/09/16 15:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-4
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5027 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5027 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: B35JF3
Date Collected: 05/10/16 13:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-5
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5168 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5168 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: B35JF0
Date Collected: 05/10/16 11:30
Date Received: 05/10/16 16:15

Lab Sample ID: 300-3025-6
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.507 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.507 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
SDG: WC1062

Client Sample ID: B355W3

Lab Sample ID: 300-3025-1 DU

Date Collected: 05/09/16 16:30

Matrix: Soil

Date Received: 05/10/16 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5019 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5019 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4306/2-A

Date Collected: N/A

Matrix: Solid

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	Prep	3060A			2.5 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4306/1-A

Date Collected: N/A

Matrix: Solid

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	Prep	3060A			2.5 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: B355W3

Lab Sample ID: 300-3025-1 MS

Date Collected: 05/09/16 16:30

Matrix: Soil

Date Received: 05/10/16 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5025 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5025 g	100 mL	4358	05/25/16 17:25	TDA	TAL RCH

Client Sample ID: B355W3

Lab Sample ID: 300-3025-1 MSI

Date Collected: 05/09/16 16:30

Matrix: Soil

Date Received: 05/10/16 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5006 g	100 mL	4306	05/25/16 09:03	HR	TAL RCH
Total/NA	Analysis	7196A		20	2.5006 g	100 mL	4358	05/25/16 17:25	TDA	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: F16-020

TestAmerica Job ID: 300-3025-1
SDG: WC1062

Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

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



June 7, 2016

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-020

TestAmerica Job ID: 300-3025-1
SDG: WC1062

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3025-1	B355W3	Soil	05/09/16 16:30	05/10/16 16:15
300-3025-2	B35KB1	Soil	05/09/16 12:00	05/10/16 16:15
300-3025-3	B355V8	Soil	05/09/16 12:00	05/10/16 16:15
300-3025-4	B355W0	Soil	05/09/16 15:30	05/10/16 16:15
300-3025-5	B35JF3	Soil	05/10/16 13:30	05/10/16 16:15
300-3025-6	B35JF0	Soil	05/10/16 11:30	05/10/16 16:15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3025-1

SDG Number: WC1062

Login Number: 3025

List Number: 1

Creator: Bock, Julie A

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	

