

August 5, 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: 300-3444-1  
TestAmerica Sample Delivery Group: WC1245  
Client Project/Site: W16-007

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

Attn: CPP Sample Management



Authorized for release by:  
8/5/2016 2:25:54 PM  
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*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

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)



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**Qualifiers**

**HPLC/IC**

Qualifier	Qualifier Description
D	The reported value is from a dilution.
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, 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)



# August 5, 2016 Case Narrative

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

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**Job ID: 300-3444-1**

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**Laboratory: TestAmerica Richland**

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**Narrative**

**Job Narrative  
300-3444-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/11/2016 2:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.7° C.

**HPLC/IC**

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

C.O.C. #  
W16-007-152  
Page 1 of 1

Collector	Frank Hill IC/HP/RC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, JULY 2016	Logbook No.	HNF-N-506 <u>85/88</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	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/REMARKS			SPECIAL INSTRUCTIONS		
*** 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			Hold Time		
			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
			N/A Special Handling: N/A		

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35NY5	N	W	7/10/16	0855	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

WCIANS  
3444



300-3444 COC

Relinquished By	Frank Hill IC/HP/RC	Print	Sign	Date/Time	Received By	SSU #1	Print	Sign	Date/Time	Matrix *
Relinquished By	SSU #1			JUL 10 2016 1530	Received By	Jody Wood			JUL 10 2016 1530	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Lesly West IC/HP/RC			JUL 11 2016 1100	Received By	J. Bock, TARL			JUL 11 2016 1100	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By					Received By					

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**W16-007-154**  
Page 1 of 1

Collector	<b>Frank Hill</b> FCH/RC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, JULY 2016	Logbook No.	HNF-N-506 <b>85/88</b>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	RCRA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>PRIORITY</b>		
*** 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 438.1			SPECIAL INSTRUCTIONS N/A Special Handling: N/A		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Hold Time		

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35P04	N	W	7/10/16	1031	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

3444  
wct1245

Reinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Reinquished By <b>Frank Hill</b> FCH/RC			JUL 10 2016 1530	Received By SSU#1			JUL 10 2016 1530	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By SSU#1			JUL 11 2016 1100	Received By Jody Wadd			JUL 11 2016 1100	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Reinquished By Lesly Wadd LW/RC			JUL 11 2016 1450	Received By J. Bock, TARL			JUL 11 2016 1450	

**FINAL SAMPLE DISPOSITION**

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By

Date/Time



**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**W16-007-153**  
Page 1 of 1

Collector <b>Frank Hill ACHRC</b>	Contract/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. W16-007	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title RCRA, JULY 2016	Logbook No. HNF-N-506 <u>85/88</u>	Ice Chest No. N/A
Shipped To (Lab) <b>TestAmerica Incorporated, Richland</b>	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol RCRA	Priority: 30 Days	Offsite Property No. N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> ** ** 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		
<b>SPECIAL INSTRUCTIONS</b> N/A Special Handling: N/A		
Hold Time		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35P00	N	W	7/10/16	0945	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

W 35444  
W 35125

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By <b>Frank Hill ACHRC</b>			JUL 10 2016 1530	Received By 35125 #1			JUL 10 2016 1530	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			JUL 11 2016 1100	Received By <b>Lesly West ACHRC</b>			JUL 11 2016 1100	DS = Dura Solids DL = Dura Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By			JUL 11 2016 1450	Received By			JUL 11 2016 1450	

<b>FINAL SAMPLE DISPOSITION</b>	Disposed Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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# August 5, 2016 Detection Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

## Client Sample ID: B35NY5

## Lab Sample ID: 300-3444-1

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	11	D	0.14	0.070	mg/L	5		300.0	Total/NA
Fluoride	0.44	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	34	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B35P04

## Lab Sample ID: 300-3444-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	16	D	0.14	0.070	mg/L	5		300.0	Total/NA
Fluoride	0.37	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	24	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B35P00

## Lab Sample ID: 300-3444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24	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	0.38	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	38	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

# August 5, 2016 Client Sample Results

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

**Client Sample ID: B35NY5**

**Lab Sample ID: 300-3444-1**

Date Collected: 07/10/16 08:55

Matrix: Water

Date Received: 07/11/16 14:50

**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			07/11/16 20:23	2
Nitrate as N	11	D	0.14	0.070	mg/L			07/11/16 22:09	5
Fluoride	0.44	D	0.10	0.050	mg/L			07/11/16 20:23	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/11/16 20:23	2
Sulfate	34	D	0.50	0.25	mg/L			07/11/16 20:23	2

**Client Sample ID: B35P04**

**Lab Sample ID: 300-3444-2**

Date Collected: 07/10/16 10:31

Matrix: Water

Date Received: 07/11/16 14:50

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	D	0.40	0.20	mg/L			07/11/16 21:08	2
Nitrate as N	16	D	0.14	0.070	mg/L			07/11/16 22:54	5
Fluoride	0.37	D	0.10	0.050	mg/L			07/11/16 21:08	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/11/16 21:08	2
Sulfate	24	D	0.50	0.25	mg/L			07/11/16 21:08	2

**Client Sample ID: B35P00**

**Lab Sample ID: 300-3444-3**

Date Collected: 07/10/16 09:45

Matrix: Water

Date Received: 07/11/16 14:50

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24	D	0.40	0.20	mg/L			07/11/16 21:23	2
Nitrate as N	29	D	0.28	0.14	mg/L			07/11/16 23:09	10
Fluoride	0.38	D	0.10	0.050	mg/L			07/11/16 21:23	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/11/16 21:23	2
Sulfate	38	D	0.50	0.25	mg/L			07/11/16 21:23	2

# August 5, 2016

## QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

### Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 300-4839/5**  
**Matrix: Water**  
**Analysis Batch: 4839**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

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			07/11/16 19:53	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			07/11/16 19:53	1

**Lab Sample ID: LCS 300-4839/6**  
**Matrix: Water**  
**Analysis Batch: 4839**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.31		mg/L		102	80 - 120
Nitrite as N	3.04	3.11		mg/L		102	80 - 120

**Lab Sample ID: 300-3444-1 MS**  
**Matrix: Water**  
**Analysis Batch: 4839**

**Client Sample ID: B35NY5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.038	U D	0.609	0.548	D	mg/L		90	75 - 125

**Lab Sample ID: 300-3444-1 MS**  
**Matrix: Water**  
**Analysis Batch: 4839**

**Client Sample ID: B35NY5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	11	D	1.13	12.4	D	mg/L		113	75 - 125

**Lab Sample ID: 300-3444-1 DU**  
**Matrix: Water**  
**Analysis Batch: 4839**

**Client Sample ID: B35NY5**  
**Prep Type: Total/NA**

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

**Lab Sample ID: 300-3444-1 DU**  
**Matrix: Water**  
**Analysis Batch: 4839**

**Client Sample ID: B35NY5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	11	D	11.0	D	mg/L		1	20

**Lab Sample ID: MB 300-4840/5**  
**Matrix: Water**  
**Analysis Batch: 4840**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			07/11/16 19:53	1
Fluoride	0.025	U	0.050	0.025	mg/L			07/11/16 19:53	1
Sulfate	0.13	U	0.25	0.13	mg/L			07/11/16 19:53	1

TestAmerica Richland

# August 5, 2016

## QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
 SDG: WC1245

### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 300-4840/6  
 Matrix: Water  
 Analysis Batch: 4840

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.1		mg/L		101	80 - 120
Fluoride	4.00	4.05		mg/L		101	80 - 120
Sulfate	20.0	20.2		mg/L		101	80 - 120

Lab Sample ID: 300-3444-1 MS  
 Matrix: Water  
 Analysis Batch: 4840

Client Sample ID: B35NY5  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19	D	3.20	21.9	D	mg/L		96	75 - 125
Fluoride	0.44	D	0.800	1.23	D	mg/L		99	75 - 125
Sulfate	34	D	4.00	38.0	D	mg/L		94	75 - 125

Lab Sample ID: 300-3444-1 DU  
 Matrix: Water  
 Analysis Batch: 4840

Client Sample ID: B35NY5  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	19	D	18.6	D	mg/L		1	20
Fluoride	0.44	D	0.436	D	mg/L		1	20
Sulfate	34	D	33.8	D	mg/L		1	20

# August 5, 2016

## QC Association Summary

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
 SDG: WC1245

### HPLC/IC

#### Analysis Batch: 4839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3444-1	B35NY5	Total/NA	Water	300.0	
300-3444-1	B35NY5	Total/NA	Water	300.0	
300-3444-2	B35P04	Total/NA	Water	300.0	
300-3444-2	B35P04	Total/NA	Water	300.0	
300-3444-3	B35P00	Total/NA	Water	300.0	
300-3444-3	B35P00	Total/NA	Water	300.0	
MB 300-4839/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4839/6	Lab Control Sample	Total/NA	Water	300.0	
300-3444-1 MS	B35NY5	Total/NA	Water	300.0	
300-3444-1 MS	B35NY5	Total/NA	Water	300.0	
300-3444-1 DU	B35NY5	Total/NA	Water	300.0	
300-3444-1 DU	B35NY5	Total/NA	Water	300.0	

#### Analysis Batch: 4840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3444-1	B35NY5	Total/NA	Water	300.0	
300-3444-2	B35P04	Total/NA	Water	300.0	
300-3444-3	B35P00	Total/NA	Water	300.0	
MB 300-4840/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4840/6	Lab Control Sample	Total/NA	Water	300.0	
300-3444-1 MS	B35NY5	Total/NA	Water	300.0	
300-3444-1 DU	B35NY5	Total/NA	Water	300.0	



# August 5, 2016 Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

## Client Sample ID: B35NY5

Date Collected: 07/10/16 08:55

Date Received: 07/11/16 14:50

## Lab Sample ID: 300-3444-1

Matrix: Water

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			4839	07/11/16 20:23	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4840	07/11/16 20:23	CPM	TAL RCH
Total/NA	Analysis	300.0		5			4839	07/11/16 22:09	CPM	TAL RCH

## Client Sample ID: B35P04

Date Collected: 07/10/16 10:31

Date Received: 07/11/16 14:50

## Lab Sample ID: 300-3444-2

Matrix: Water

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			4839	07/11/16 21:08	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4840	07/11/16 21:08	CPM	TAL RCH
Total/NA	Analysis	300.0		5			4839	07/11/16 22:54	CPM	TAL RCH

## Client Sample ID: B35P00

Date Collected: 07/10/16 09:45

Date Received: 07/11/16 14:50

## Lab Sample ID: 300-3444-3

Matrix: Water

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			4839	07/11/16 21:23	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4840	07/11/16 21:23	CPM	TAL RCH
Total/NA	Analysis	300.0		10			4839	07/11/16 23:09	CPM	TAL RCH

## Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

## Lab Sample ID: MB 300-4839/5

Matrix: Water

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			4839	07/11/16 19:53	CPM	TAL RCH

## Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

## Lab Sample ID: MB 300-4840/5

Matrix: Water

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			4840	07/11/16 19:53	CPM	TAL RCH

TestAmerica Richland

# August 5, 2016 Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-4839/6**

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			4839	07/11/16 20:08	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-4840/6**

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			4840	07/11/16 20:08	CPM	TAL RCH

**Client Sample ID: B35NY5**

**Lab Sample ID: 300-3444-1 MS**

Date Collected: 07/10/16 08:55

Matrix: Water

Date Received: 07/11/16 14:50

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			4839	07/11/16 20:38	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4840	07/11/16 20:38	CPM	TAL RCH
Total/NA	Analysis	300.0		5			4839	07/11/16 22:24	CPM	TAL RCH

**Laboratory References:**

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

# August 5, 2016

## Method Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

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



# August 5, 2016

## Sample Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: W16-007

TestAmerica Job ID: 300-3444-1  
SDG: WC1245

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3444-1	B35NY5	Water	07/10/16 08:55	07/11/16 14:50
300-3444-2	B35P04	Water	07/10/16 10:31	07/11/16 14:50
300-3444-3	B35P00	Water	07/10/16 09:45	07/11/16 14:50

- 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: 300-3444-1

SDG Number: WC1245

**Login Number: 3444**

**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	

