

July 29, 2015

Analytical Data Package Prepared For  
**CH2M Hill Plateau Remediation**

Chemical Analysis By  
**TestAmerica Inc**

*2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.*

Assigned Laboratory Code: TARL  
Data Package Contains 7 Pages

Report No.: 66730

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
WC0110	F15-028	B30RT0	J5F290431-1	M65XN1AA	M65XN1AA	5180039
WC0111	F14-003	B31D57 DUP	J5F290432-1	M65XP1AC	M65XP1AC	5180039

Sample Date: 6/25/2015

Receipt Date: 6/29/2015

Data Deliverable: 7/29/2015

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. 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 following signature.

Reviewed and Approved: Erika Jordan  
 2015.07.29 16:26:49  
-07'00'

Project Manager

July 29, 2015



## Certificate of Analysis

CH2M Hill Plateau Remediation Company  
P.O. Box 1600  
Mail Stop – R3-60  
Richland, WA 99352

July 29, 2015

Attention: Scot Fitzgerald

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SAF Number	:	F15-028
Date SDG Closed	:	June 29, 2015
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	WC0110
Data Deliverable	:	30- Day/ Summary

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### CASE NARRATIVE

#### **I. Introduction**

On June 29, 2015, one sample was received at TestAmerica (TARL). Upon receipt, the sample was assigned laboratory ID numbers to correspond with the CH2M specific IDs.

#### **II. Sample Receipt**

The sample was received in good condition and no anomalies were noted during check-in.

#### **III. Analytical Results/Methodology**

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

##### **Chemical Analysis**

Hexavalent Chromium by EPA method 7196A

#### **IV. Quality Control**

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

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The sample/sample duplicate agreement is not applicable if one or both results are less than five times the MDL.

QC and sample results are reported in the same units.

**V. Comments**

**Chemical Analysis**

Hexavalent Chromium by EPA method 7196A

The samples were received outside of hold-time. No other analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.



THE LEADER IN ENVIRONMENTAL TESTING

Date/Time Received: 6/29/15 1430 Container GM Screen Result: (Airlock) 20 cpm Initials [ J ]  
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [ J ]

Client: FLH SDG #: WC 0110 SAF #: F15-028 NA [ ]

Lot Number: J5F290431

Chain of Custody # F15-028-021

Shipping Container ID or Air Bill Number : \_\_\_\_\_ NA [ F ]

Samples received inside shipping container/cooler/box Yes [ F ] Continue with 1 through 4. Initial appropriate response.  
No [ ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ F ]
- 2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ F ]
- 3. Cooler temperature: 9.3 °C NA [ ]
- 4. Vermiculite/packing materials is NA [ F ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ F ] No [ ]

6. Number of samples received (Each sample may contain multiple bottles): 1

7. Containers received: 1x60ml bag

8. Sample holding times exceeded? NA [ ] Yes [ ] No [ F ]

9. Samples have: \_\_\_\_\_ tape \_\_\_\_\_ hazard labels F custody seals F appropriate sample labels

10. Matrix: \_\_\_\_\_ A (FLT, Wipe, Solid, Soil) F (Water) \_\_\_\_\_ S (Air, Niosh 7400) \_\_\_\_\_ T (Biological, Ni-63)

11. Samples: F are in good condition \_\_\_\_\_ are leaking \_\_\_\_\_ are broken  
\_\_\_\_\_ have air bubbles (Only for samples requiring no head space) \_\_\_\_\_ Other \_\_\_\_\_

12. Sample pH appropriate for analysis requested Yes [ F ] No [ ] NA [ ]  
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO<sub>3</sub> added and pH after addition on table)

13. Were any anomalies identified in sample receipt? Yes [ ] No [ F ]

14. Description of anomalies (include sample numbers): NA [ F ] \_\_\_\_\_

15. Sample Location, Sample Collector Listed on COC? \* Yes [ F ] No [ ]  
\*For documentation only. No corrective action needed.

16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [ F ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:  
Signature: \_\_\_\_\_ Date: 6/29/15

Client Notification needed? Yes [ ] No [ F ] Date: \_\_\_\_\_  
By: \_\_\_\_\_  
Person contacted: \_\_\_\_\_

F No action necessary, process as is  
Project Manager Stacy Cyprien Date 7/2/15

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Sample Results Summary

Date: 29-Jul-15

TestAmerica Inc TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 66730

SDG No: WC0110

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
<b>5180039 7196_CR6 ,WATER</b>										
B30RT0	06/25/15 14:49	M65XN1AA	HEXCHROME	0.00550		mg/L	0.0015	0.004	06/29/15 16:34	1

No. of Results: 1

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QC Results Summary  
TestAmerica Inc TARL  
Ordered by Method, Batch No, QC Type,.

Date: 29-Jul-15

Report No. : 66730

SDG No.: WC0110

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
<b>7196_CR6</b>										
5180039 MS, B30RT0	M65XN1AC	HEXCHROME	0.0518		mg/L	104%	0.0015	0.004		1
5180039 DUP, B31D57 DUP	M65XP1AC	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004	-5.9	1
5180039 BLANK,	M65X81AA	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004		1
5180039 LCS,	M65X81AC	HEXCHROME	0.251		mg/L	100%	0.0015	0.004		1
No. of Results: 4										

TestAmerica Inc U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.  
rptTALRchQcSum  
maryC V5.3.8  
A2002