

June 28, 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: TARK
Data Package Contains 7 Pages

Report No.: 66235

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.
WC0080	F15-028	B30RP6	J5F040408-1	M60WD1AA	M60WD1AA	5155015
		B30RP6 DUP	J5F040408-1	M60WD1AD	M60WD1AD	5155015

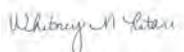
Sample Date: 6/3/2015

Receipt Date: 6/4/2015

Data Deliverable: 6/28/2015

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:


Digitally signed by Whitney
Ritari
Date: 2015.06.28 20:18:29
07'00'

Project Manager

June 28, 2015



Certificate of Analysis

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

June 28, 2015

Attention: Scot Fitzgerald

SAF Number	:	F15-028
Date SDG Closed	:	June 4, 2015
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	WC0080
Data Deliverable	:	30- Day/ Summary

CASE NARRATIVE

I. Introduction

On June 4, 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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QC and sample results are reported in the same units.

V. Comments
Chemical Analysis

Hexavalent Chromium by EPA method 7196A

No 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.

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

FL15-028-008

PAGE 1 OF 1

COLLECTOR: *Bret Horton*

SAMPLING LOCATION: *08796, Interval 21 REQ JLT 6/13/15*

ICE CHEST NO.: *N/A*

COMPANY CONTACT: SUMNER, LC

PROJECT DESIGNATION: 100-KE Characterization Boreholes - Water

FIELD LOGBOOK NO.: *HWF-N-645-3/5 64.7*

ACTUAL SAMPLE DEPTH: *IT*

OFFSITE PROPERTY NO.: *N/A*

PROJECT COORDINATOR: TODAK, D

PRICE CODE: 7H

DATA TURNAROUND: 30 Days / 30 Days

SAF NO.: F15-028

AIR QUALITY:

METHOD OF SHIPMENT: ORIGINAL

COA: 303581

BILL OF LADING/AIR BILL NO.: *N/A*

SHIPMENT TO: TestAmerica Incorporated, Richland

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 regulated for transportation per 49 CFR/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE: *RADIOACTIVE - HF-630825 JLT 6/13/15*

PRESERVATION: Cool <= 6C

HOLDING TIME: 24 Hours

TYPE OF CONTAINER: ag

NO. OF CONTAINER(S): 1

VOLUME: 60ml

SAMPLE ANALYSIS: 756, C86; COMMON;

SAMPLE NO.: B30RP6

MATRIX*: WATER

SAMPLE DATE: 6-3-15

SAMPLE TIME: 1427

RECEIVED BY: *Melwood*

DATE/TIME: *6-3-15 1536*

RECEIVED BY/STORED IN: *SSU-1*

DATE/TIME: *6-3-15 1536*

RECEIVED BY/STORED IN: *J. Friesz, TARL*

DATE/TIME: *JUN 04 2015 0830*

RECEIVED BY/STORED IN: *J. Friesz, TARL*

DATE/TIME: *JUN 04 2015 0830*

RECEIVED BY/STORED IN: *J. Friesz, TARL*

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RECEIVED BY/STORED IN: *J. Friesz, TARL*

DATE/TIME: *JUN 04 2015 0830*

SPECIAL INSTRUCTIONS: TRVL-15-037



TRVL-15-037

*J5F040408
5665#600080*

June 28 2015

Date/Time Received: 6/4/15 0830 Container GM Screen Result: (Airlock) 20 cpm Initials [J]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [J]

Client: FLH SDG #: W1C0080 SAF #: F15-028 NA []

Lot Number: J5F040408

Chain of Custody # _____

Shipping Container ID or Air Bill Number : _____ NA [J]

Samples received inside shipping container/cooler/box Yes [J] 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 [J]
- 2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [J]
- 3. Cooler temperature: -7.1 °C NA []
- 4. Vermiculite/packing materials is NA [J] Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [J] No []
- 6. Number of samples received (Each sample may contain multiple bottles): 1
- 7. Containers received: 1 x 60 ml bag

- 8. Sample holding times exceeded? NA [] Yes [] No [J]
- 9. Samples have: _____ tape _____ hazard labels _____ custody seals J appropriate sample labels
- 10. Matrix: _____ A (FLT, Wipe, Solid, Soil) J (Water) _____ S (Air, Niosh 7400) _____ T (Biological, Ni-63)

11. Samples:
J 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 [J] No [] NA []
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO₃ added and pH after addition on table)

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

14. Description of anomalies (include sample numbers): NA [J]

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

16. Additional Information: N/A

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

Sample Check-in List completed by Sample Custodian:
Signature: _____ Date: 6/4/15

Client Notification needed? Yes [] No [J] Date: _____
By: _____
Person contacted: _____

J No action necessary; process as is

Project Manager Stan Cooper Date 6/4/15

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Sample Results Summary

Date: 28-Jun-15

TestAmerica Inc TARL

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

Report No. : 66235

SDG No: WC0080

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
5155015 7196_CR6 ,WATER										
B30RP6	06/03/15 14:27	M60WD1AA	HEXCHROME	<0.00150	U	mg/L	0.0015	0.004	06/04/15 11:47	1

No. of Results: 1

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

Date: 28-Jun-15

Report No. : 66235

SDG No.: WC0080

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
7196_CR6										
5155015 MS, B30RP6	M60WD1AC	HEXCHROME	0.0543		mg/L	109%	0.0015	0.004		1
5155015 DUP, B30RP6 DUP	M60WD1AD	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004	50.0	1
5155015 BLANK,	M60XA1AA	HEXCHROME	<0.00150 U		mg/L		0.0015	0.004		1
5155015 LCS,	M60XA1AC	HEXCHROME	0.256		mg/L	102%	0.0015	0.004		1
No. of Results: 4										