

July 10, 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.: 66414

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.
WC0137	F15-033	B30T54	J5G090408-1	M68GN1AA	M68GN1AA	5190019
		B30T54 DUP	J5G090408-1	M68GN1AD	M68GN1AD	5190019

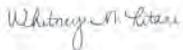
Sample Date: 7/8/2015

Receipt Date: 7/9/2015

Data Deliverable: 7/10/2015

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: 2015.07.10 11:10:02 -07'00'

Project Manager

July 10, 2015



Certificate of Analysis

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

July 10, 2015

Attention: Scot Fitzgerald

SAF Number	:	F15-033
Date SDG Closed	:	July 9, 2015
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	WC0137
Data Deliverable	:	24 Hour TAT

CASE NARRATIVE

I. Introduction

On July 9, 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 samples were 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

Anions, Ion Chromatography by EPA method 300.0

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.

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

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QC and sample results are reported in the same units.

V. Comments

Chemical Analysis

Anions, Ion Chromatography by EPA method 300.0

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.

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CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F15-033-024	PAGE 1 OF 1
COLLECTOR E.L. Kauer/CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR TODAK, D	PRICE CODE C02	DATA TURNAROUND 24 Hours / 24 Hours
SAMPLING LOCATION C9448, I-004	PROJECT DESIGNATION 200 East M-24 Wells C9447 & C9448 Sampling and Analysis - Water	FIELD LOGBOOK NO. FNF-7V-507-33/	SAF NO. F15-033	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO.	ACTUAL SAMPLE DEPTH 267	OFFSITE PROPERTY NO.	COA 302898	ORIGINAL	
SHIPPED TO TestAmerica Incorporated, Richland					



300-225 Chain of Custody

J5G090408
WC0137

M686N

MATRIX* A=Air DL=Drum L=Liquid S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=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.	PRESERVATION Cool <=6C	HOLDING TIME 48 Hours	TYPE OF CONTAINER P	NO. OF CONTAINER(S) 1	VOLUME 500mL	SAMPLE ANALYSIS 300.0. ANIONS, IC: COMMON (Nitrogen in Nitrate);
SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE NO. B30T54	MATRIX* WATER	SAMPLE DATE 7-8-15	SAMPLE TIME 1345			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM E.L. Kauer/CHPRC	DATE/TIME 7-8-15 1451	RECEIVED BY/STORED IN SSU #1	DATE/TIME 7-8-15 1451	TRVL-15-053; ** Nitrate results are needed within 24 hours to accommodate screen setting. All such requests will be on a separate chain of custody and be assigned a unique sample number.	
RELINQUISHED BY/REMOVED FROM SSU-1	DATE/TIME JUL 09 2015 0600	RECEIVED BY/STORED IN F.M. HAMGHPRC	DATE/TIME JUL 09 2015 0650	TRVL-15-053	
RELINQUISHED BY/REMOVED FROM F.M. HAMGHPRC	DATE/TIME JUL 09 2015 0900	RECEIVED BY/STORED IN Prest, TARI	DATE/TIME JUL 09 2015 0900		
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		

THE LEADER IN ENVIRONMENTAL TESTING
Date/Time Received: 7/9/15 0900 Container GM Screen Result: (Airlock) 0 cpm Initials [J]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [J]

Client: FLH SDG #: WC0137 SAF #: F15-033 NA []

Lot Number: J5G090408

Chain of Custody # F15-033-024

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: 7.6 °C SWICE 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: 1x500mlp

- 8. Sample holding times exceeded? NA [] Yes [] No [J]
- 9. Samples have: _____ tape _____ hazard labels J 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: [Signature] Date: 7/9/15

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

No action necessary: process as is
Project Manager Whitney M. Pitari Date 7/10/15

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Sample Results Summary

Date: 10-Jul-15

TestAmerica Inc TARL

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

Report No. : 66414

SDG No: WC0137

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
5190019 300.0_ANIONS_IC ,WATER										
B30T54	07/08/15 13:45	M68GN1AA	Nitrate as N	279.0	D	mg/L	1.4	2.8	07/09/15 14:17	100

No. of Results: 1

TestAmerica Inc D Qual - The reported value is from a dilution

rptTALRchSample
SumC2 V5.3.7
A2002

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

Date: 10-Jul-15

Report No. : 66414

SDG No.: WC0137

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
300.0_ANIONS_IC										
5190019 MS, B30T54	M68GN1AC	Nitrate as N	2.57		mg/L	100%	0.014	0.028		1
5190019 DUP, B30T54 DUP	M68GN1AD	Nitrate as N	280.0 D		mg/L		1.4	2.8	0.5	100
5190019 BLANK,	M68G21AA	Nitrate as N	<0.0140 U		mg/L		0.014	0.028		1
5190019 LCS,	M68G21AC	Nitrate as N	0.536		mg/L	95%	0.014	0.028		1
No. of Results: 4										