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 13 *Pages*

Report No.: 65428

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.
WC0044	F13-002	B310Y5	J5D060418-3	M6JLR1AA	M6JLR1AA	5096050
		B310Y6	J5D060418-4	M6JLT1AA	M6JLT1AA	5097015
		B310Y6 DUP	J5D060418-4	M6JLT1AD	M6JLT1AD	5097015
		B31100	J5D060418-1	M6JLP1AA	M6JLP1AA	5096050
		B31101	J5D060418-5	M6JLV1AA	M6JLV1AA	5097015
		B31105	J5D060418-2	M6JLQ1AA	M6JLQ1AA	5096050
		B31106	J5D060418-6	M6JLW1AA	M6JLW1AA	5097015
WC0045	F13-018	B312F4 DUP	J5D060419-12	M6JMM1AC	M6JMM1AC	5096050

Sample Date: 4/6/2015 **Receipt Date:** 4/6/2015 **Data Deliverable:** 4/22/2015

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:

Whitney M Petari

Project Manager

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 _____ Pages

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WC0044	F13-002	B310Y5	J5D060418-3	M6JLR1AA	M6JLR1AA	5096050
		B310Y6	J5D060418-4	M6JLT1AA	M6JLT1AA	5097015
		B310Y6 DUP	J5D060418-4	M6JLT1AD	M6JLT1AD	5097015
		B31100	J5D060418-1	M6JLP1AA	M6JLP1AA	5096050
		B31101	J5D060418-5	M6JLV1AA	M6JLV1AA	5097015
		B31105	J5D060418-2	M6JLQ1AA	M6JLQ1AA	5096050
		B31106	J5D060418-6	M6JLW1AA	M6JLW1AA	5097015
WC0045	F13-018	B312F4 DUP	J5D060419-12	M6JMM1AC	M6JMM1AC	5096050

Sample Date: 4/6/2015 **Receipt Date:** 4/6/2015 **Data Deliverable:** 4/22/2015

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Reviewed and Approved:

Whitney M Petari

Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

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

April 24, 2015

Attention: Scot Fitzgerald

SAF Number	:	F13-002
Date SDG Closed	:	April 6, 2015
Number of Samples	:	Six (6)
Sample Type	:	Water
SDG Number	:	WC0044
Data Deliverable	:	15-Day / Summary

CASE NARRATIVE

I. Introduction

On April 6, 2015, six samples were received at TestAmerica (TARL). Upon receipt, the samples were 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
Hexavalent Chromium by EPA method 7196A
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.

3 of 13

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.

Anions, Ion Chromatography by EPA method 300.0

Batch 5097015:

The bromide peak was manually integrated with results less than the RL but greater than the MDL. 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.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F13-002-966	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	**COMPANY CONTACT** EVANS, RT	**TELEPHONE NO.** 373-7924	**PROJECT COORDINATOR** EVANS, RT	**PRICE CODE** 7C	**DATA TURNAROUND** 15 Days / 15 Days
SAMPLING LOCATION 289-T, 299-W11-96, Valve V05-YE08	**PROJECT DESIGNATION** 200W Pump & Treat - Extraction Well Water Sampling		**SAF NO.** F13-002	**AIR QUALITY** ☐	
ICE CHEST NO. N/A	**FIELD LOGBOOK NO.** HNF-N-491-9/129	**ACTUAL SAMPLE DEPTH** N/A	**COA** 303111	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO TestAmerica Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool~4C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6: COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31400	WATER	APR 06 2015	1015	✓

5 of 13

MGJLP

J5D060418

J5D060418
SDG# WC0045

April 24, 2015

CHAIN OF POSSESSION	SIGN/ PRINT NAMES			
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
D.L. Floyd/CHPRC	APR 06 2015 1100	F.M. Hall/CHPRC	APR 06 2015 1100	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
F.M. Hall/CHPRC	APR 06 2015 1450	J. Friesz, TARL	APR 06 2015 1450	
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
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-057

TRVL-15-057

6 of 13

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

PRINTED ON 3/23/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F13-002-971	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	**COMPANY CONTACT** EVANS, RT	**TELEPHONE NO.** 373-7924	**PROJECT COORDINATOR** EVANS, RT	**PRICE CODE** 7C	**DATA TURNAROUND** 15 Days / 15 Days
SAMPLING LOCATION 289-T, 299-W6-15, Valve V18-YE14	**PROJECT DESIGNATION** 200W Pump & Treat - Extraction Well Water Sampling		**SAF NO.** F13-002	**AIR QUALITY** ☐	
ICE CHEST NO.	**FIELD LOGBOOK NO.** ~~(N/A)~~ HNF-N-481-9/129	**ACTUAL SAMPLE DEPTH** N/A	**COA** 303111	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO TestAmerica Incorporated, Richland	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		

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

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool~4C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6: COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B319N5	WATER	APR 06 2015	1203	✓ MGJLQ

9 of 13

J5D060418

J5D060418
WC0044

April 24, 2015

CHAIN OF POSSESSION	SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-057
D.L. Floyd/CHPRC	APR 06 2015 1320	F.M. Hall/CHPRC	APR 06 2015 1320		
F.M. Hall/CHPRC	APR 06 2015 1405	J. Friesz, TARL	APR 06 2015 1465		
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		

TRVL-15-057

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

5 of 13

PRINTED ON 3/23/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F13-002-961	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	**COMPANY CONTACT** EVANS, RT	**TELEPHONE NO.** 373-7924	**PROJECT COORDINATOR** EVANS, RT	**PRICE CODE** 7C	**DATA TURNAROUND** 15 Days / 15 Days
SAMPLING LOCATION 289-T, 299-W14-74, Valve V05-YE04	**PROJECT DESIGNATION** 200W Pump & Treat - Extraction Well Water Sampling		**SAF NO.** F13-002	**AIR QUALITY** ☐	
ICE CHEST NO. N/A	**FIELD LOGBOOK NO.** HNF-N-491-9/129	**ACTUAL SAMPLE DEPTH** N/A	**COA** 303111	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO TestAmerica Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

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

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool~4C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6: COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3T0Y5	WATER	APR 06 2015	1031	✓ mGJLR

7/01/13

April 24, 2015

J5D060418
WL0044

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM D.L. Floyd/CHPRC — DATE/TIME APR 06 2015 1100	RECEIVED BY/STORED IN F.M. Hall/CHPRC — DATE/TIME APR 06 2015 1100	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-057
RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC — DATE/TIME APR 06 2015 1450	RECEIVED BY/STORED IN J. Friesz, TARL — DATE/TIME APR 06 2015 1450	
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	

TRVL-15-057

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

PRINTED ON 3/23/2015

A-6003-618 (REV 2)

4 of 13

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F13-002-962	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, 299-W14-74, Valve V05-YE04	PROJECT DESIGNATION 200W Pump & Treat - Extraction Well Water Sampling		SAF NO. F13-002		
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N- 491-9/125	ACTUAL SAMPLE DEPTH N/A	COA 303111	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B340Y6	WATER	APR 06 2015	1031	✓

MGJLT

8 of 13

April 24, 2015

J5D060416
WC0044

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM D.L. Floyd/CHPRC	DATE/TIME APR 06 2015 1100	RECEIVED BY/STORED IN F.M. Hall/CHPRC	DATE/TIME APR 06 2015 1100
RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC	DATE/TIME APR 06 2015 1450	RECEIVED BY/STORED IN J. Bock, TARL	DATE/TIME APR 06 2015 1450
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
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-057
(1) 300.0_ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

TRVL-15-057

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

PRINTED ON 3/23/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F13-002-967	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, 299-W11-96, Valve V05-YE08	PROJECT DESIGNATION 200W Pump & Treat - Extraction Well Water Sampling		SAF NO. F13-002		
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-491-9/129	ACTUAL SAMPLE DEPTH N/A	COA 303111	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

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

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B34101	WATER	APR 06 2015	1015	✓

9 of 13

MbJLV

April 24, 2015

J5D060418
WC0044

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM D.L. Floyd/CHPRC	DATE/TIME APR 06 2015 1100	RECEIVED BY/STORED IN F.M. Hall/CHPRC	DATE/TIME APR 06 2015 1100
RELINQUISHED BY/REMOVED FROM F.M. Hall/CHPRC	DATE/TIME APR 06 2015 1450	RECEIVED BY/STORED IN J. Bock, TARL	DATE/TIME APR 06 2015 1450
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
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-057
(1) 300.0_ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

TRVL-15-057

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

PRINTED ON 3/23/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F13-002-972	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	**COMPANY CONTACT** EVANS, RT	**TELEPHONE NO.** 373-7924	**PROJECT COORDINATOR** EVANS, RT	**PRICE CODE** 7C	**DATA TURNAROUND**
SAMPLING LOCATION 289-T, 299-W6-15, Valve V18-YE14	**PROJECT DESIGNATION** 200W Pump & Treat - Extraction Well Water Sampling		**SAF NO.** F13-002	**AIR QUALITY** ☐	15 Days / 15 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-491-9/29	**ACTUAL SAMPLE DEPTH** N/A	**COA** 303111	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO TestAmerica Incorporated, Richland	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		

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

SPECIAL HANDLING AND/OR STORAGE
N/A

PRESERVATION	Cool <=6C
HOLDING TIME	48 Hours
TYPE OF CONTAINER	P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31106	WATER	APR 06 2015	1203	✓

10 of 13

M6JLW

April 24, 2015

J5D060445
WC0044

CHAIN OF POSSESSION	SIGN/ PRINT NAMES			
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
D.L. Floyd/CHPRC	APR 06 2015 1320	F.M. Hall/CHPRC	APR 06 2015 1320	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
F.M. Hall/CHPRC	APR 06 2015 1450	J. Bock, TARL	APR 06 2015 1450	
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
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-057
(1) 300.0_ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};

TRVL-15-057

10 of 13

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

PRINTED ON 3/23/2015

A-6003-618 (REV 2)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

April 24, 2015

Sample Check-in List

Date/Time Received: 4-6-15 | 1450 Container GM Screen Result: (Airlock) 40 cpm Initials [ ]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [ ]

Client: FLH SDG #: WC0044 SAF #: F13-002 NA [ ]

Lot Number: JSD060418

Chain of Custody # F13-002-966;971;961;962;967;972

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

Samples received inside shipping container/cooler/box Yes [ ] 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 [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 7.0 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 6
7. Containers received: 3x60mlay; 3x500mlp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have: ____tape ____hazard labels ____custody seals ____appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) ____I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
____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 [ ] No [ ] NA [ ]
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [ ]
*For documentation only. No corrective action needed.
16. Additional Information: WIR

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

Sample Check-in List completed by Sample Custodian:
Signature: Julie Bach Date: 4-6-15

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

WIR No action necessary; process as is

Project Manager Whitney Mistari Date 4/7/15

Sample Results Summary

Date: 24-Apr-15

TestAmerica Inc TARL

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

Report No. : 65428 **SDG No:** WC0044

Batch Client ID	Date Sampled	Work Order No.	Parameter	Result	Qual	Units	MDL	RL	Date Analyzed	Dil Fct
5096050 7196_CR6 ,WATER										
B310Y5	04/06/15 10:31	M6JLR1AA	HEXCHROME	**0.0195**		mg/L	0.0015	0.004	04/06/15 17:22	1
B31100	04/06/15 10:15	M6JLP1AA	HEXCHROME	**0.0635**		mg/L	0.0015	0.004	04/06/15 17:18	1
B31105	04/06/15 12:03	M6JLQ1AA	HEXCHROME	**0.110**		mg/L	0.0015	0.004	04/06/15 17:21	1
5097015 300.0_ANIONS_IC ,WATER										
B310Y6	04/06/15 10:31	M6JLT1AA	Bromide	**0.206**	**D B**	mg/L	0.125	0.25	04/07/15 16:01	2
			Chloride	**51.0**	**D**	mg/L	0.2	0.4		2
			Fluoride	**0.286**	**D**	mg/L	0.05	0.1		2
			Nitrite as N	**<0.0380**	**U D**	mg/L	0.038	0.076		2
			Nitrate as N	**23.2**	**D**	mg/L	0.07	0.14	04/07/15 18:46	5
			Sulfate	**50.1**	**D**	mg/L	0.25	0.5	04/07/15 16:01	2
B31101	04/06/15 10:15	M6JLV1AA	Bromide	**0.301**	**D**	mg/L	0.125	0.25	04/07/15 16:46	2
			Chloride	**28.4**	**D**	mg/L	0.2	0.4		2
			Fluoride	**0.232**	**D**	mg/L	0.05	0.1		2
			Nitrite as N	**<0.0380**	**U D**	mg/L	0.038	0.076		2
			Nitrate as N	**58.8**	**D**	mg/L	0.21	0.42	04/07/15 19:31	15
			Sulfate	**56.8**	**D**	mg/L	0.25	0.5	04/07/15 16:46	2
B31106	04/06/15 12:03	M6JLW1AA	Bromide	**0.351**	**D**	mg/L	0.125	0.25	04/07/15 17:01	2
			Chloride	**19.4**	**D**	mg/L	0.2	0.4		2
			Fluoride	**0.214**	**D**	mg/L	0.05	0.1		2
			Nitrite as N	**<0.0380**	**U D**	mg/L	0.038	0.076		2
			Nitrate as N	**84.6**	**D**	mg/L	0.28	0.56	04/07/15 19:47	20
			Sulfate	**57.5**	**D**	mg/L	0.25	0.5	04/07/15 17:01	2

No. of Results: 21

B Qual - The analyte was detected at a value less than the reporting limit (RL), but greater than or equal to the MDL.
D Qual - The reported value is from a dilution
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

QC Results Summary

Date: 24-Apr-15

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 65428 **SDG No.:** WC0044

Batch	Work Work No.	Parameter	Result	Qual	Units	LCS Recovery	MDL	RL	RPD	Dil Fct
7196_CR6										
5096050 MS, B31100	M6JLP1AC	HEXCHROME	**0.0482**		mg/L	96%	0.0015	0.004		1
5096050 DUP, B312F4 DUP	M6JMM1AC	HEXCHROME	**<0.00150**	**U**	mg/L		0.0015	0.004	22.2	1
5096050 BLANK,	M6JMP1AA	HEXCHROME	**<0.00150**	**U**	mg/L		0.0015	0.004		1
5096050 LCS,	M6JMP1AC	HEXCHROME	**0.251**		mg/L	100%	0.0015	0.004		1
300.0_ANIONS_IC										
5097015 MS, B310Y6	M6JLT1AC	Bromide	**0.286**		mg/L	83%	0.0625	0.125		1
		Chloride	**23.3**		mg/L	100%	0.1	0.2		1
		Fluoride	**0.215**		mg/L	94%	0.025	0.05		1
		Nitrite as N	**0.0600**		mg/L	78%	0.019	0.038		1
		Nitrate as N	**4.26**		mg/L	101%	0.014	0.028		1
		Sulfate	**23.1**		mg/L	100%	0.125	0.25		1
5097015 DUP, B310Y6 DUP	M6JLT1AD	Bromide	**0.205**	**D B**	mg/L		0.125	0.25	0.5	2
		Chloride	**51.0**	**D**	mg/L		0.2	0.4	0.0	2
		Fluoride	**0.282**	**D**	mg/L		0.05	0.1	1.4	2
		Nitrite as N	**<0.0380**	**U D**	mg/L		0.038	0.076		2
		Nitrate as N	**23.3**	**D**	mg/L		0.07	0.14	0.2	5
		Sulfate	**50.2**	**D**	mg/L		0.25	0.5	0.2	2
5097015 BLANK,	M6JQM1AA	Bromide	**<0.0625**	**U**	mg/L		0.0625	0.125		1
		Chloride	**<0.100**	**U**	mg/L		0.1	0.2		1
		Fluoride	**<0.0250**	**U**	mg/L		0.025	0.05		1
		Nitrite as N	**<0.0190**	**U**	mg/L		0.019	0.038		1
		Nitrate as N	**<0.0140**	**U**	mg/L		0.014	0.028		1
		Sulfate	**<0.125**	**U**	mg/L		0.125	0.25		1
5097015 LCS,	M6JQM1AC	Bromide	**2.37**		mg/L	95%	0.0625	0.125		1
		Chloride	**3.96**		mg/L	99%	0.1	0.2		1
		Fluoride	**0.977**		mg/L	98%	0.025	0.05		1
		Nitrite as N	**0.710**		mg/L	93%	0.019	0.038		1
		Nitrate as N	**0.541**		mg/L	96%	0.014	0.028		1
		Sulfate	**4.94**		mg/L	99%	0.125	0.25		1

No. of Results: 28

B Qual - The analyte was detected at a value less than the reporting limit (RL), but greater than or equal to the MDL.
D Qual - The reported value is from a dilution
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.