Analytical Data Package Prepared For

CH2M Hill Plateau Remediation

Radiochemical Analysis By

TestAmerica Inc

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

Assigned Laboratory Code: TARL

Data Package Contains 23 *Pages*

Report No.: 68820

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.
W07491	F16-041	B35KW9	J6E310414-5	M8PJ51AA	9M8PJ510	6153037
		B35KX5	J6E310414-2	M8PJ21AA	9M8PJ210	6153037
		B35KY2	J6E310414-4	M8PJ41AA	9M8PJ410	6153037
		B35KY8	J6E310414-1	M8PJ11AA	9M8PJ110	6153037
		B35L12	J6E310414-6	M8PJ61AA	9M8PJ610	6153037
		B35L19	J6E310414-3	M8PJ31AA	9M8PJ310	6153037

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

June 23, 2016

Attention: Scot Fitzgerald

SAF Number	:	F16-041
Date SDG Closed	:	May 27, 2016
Number of Samples	:	Six (6)
Sample Type	:	Water
SDG Number	:	W07491
Data Deliverable	:	15-Day / Summary

CASE NARRATIVE

I. Introduction

On May 27, 2016, 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:

Gamma Spectroscopy
Gamma Spec (LL) by method RL-GAM-001
Gamma Spec by method RL-GAM-001

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.

QC and sample results are reported in the same units.

V. Comments

Gamma Spectroscopy

Gamma Spec (LL) by method RL-GAM-001:
No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Gamma Spec by method RL-GAM-001:
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.

Reviewed and approved:

Digitally signed by Steven Campbell
Date: 2016.06.23 15:33:22 -07'00'

Steven Campbell
Project Manager Assistant

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Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

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

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in “NIST Technical Note 1297, 1994 Edition”. The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
CSU (#s) ***u_c Combined Standard Uncert.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined standard uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-041-068	PAGE 1 OF 1
COLLECTOR K.C. Patterson/CHPRC	**COMPANY CONTACT** SUMNER, LC	**TELEPHONE NO.** 376-3922	**PROJECT COORDINATOR** SUMNER, LC	**PRICE CODE** 7C **AIR QUALITY** ☐	**DATA TURNAROUND** 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Post-Resin Tanks, Valve V06-Y22	**PROJECT DESIGNATION** 200W Pump & Treat - ERDF Leachate Sampling		**SAF NO.** F16-041		
ICE CHEST NO. (N/A)	**FIELD LOGBOOK NO.** HNF-N-491 15	**ACTUAL SAMPLE DEPTH** (N/A)	**COA** 303864	**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. N/A

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2
HOLDING TIME	6 Months
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	3
VOLUME	1L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

J6E310414
WO7491
Due 6-10-16

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B36KY8	WATER	MAY 27 2016	0918	✓

m8PJ1

J6E310414

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM K.C. Patterson/CHPRC	DATE/TIME MAY 27 2016 1030	RECEIVED BY/STORED IN Lesly Wall /CHPRC	DATE/TIME MAY 27 2016 1030	ROUND 2 (1) GAMMA_GS: COMMON {Cesium-137}; GAMMA LL: COBALT 60 LL;
RELINQUISHED BY/REMOVED FROM Lesly Wall /CHPRC	DATE/TIME MAY 27 2016 1520	RECEIVED BY/STORED IN K. C. Patterson TAPI	DATE/TIME MAY 27 2016 1520	
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	

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

PRINTED ON 5/25/2016 **FSR ID = FSR32742** **TRVL NUM = TRVL-16-127** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-041-056	PAGE 1 OF 1
COLLECTOR K.C. Patterson/CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Post UIX RESIN COLUMN C3, V03-Y11A3	PROJECT DESIGNATION 200W Pump & Treat - ERDF Leachate Sampling		SAF NO. F16-041		
ICE CHEST NO. N/A	FIELD LOGBOOK NO. ~~HNF-N-~~ 491 15	ACTUAL SAMPLE DEPTH N/A	COA 303864	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. N/A

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2
HOLDING TIME	6 Months
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	3
VOLUME	1L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

JGE310414
W07491

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B35XX5	WATER	MAY 27 2016	0830	✓

m8PJ2

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CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM K.C. Patterson/CHPRC	DATE/TIME MAY 27 2016 0900	RECEIVED BY/STORED IN Frank Hall CHPRC	DATE/TIME MAY 27 2016 0900
RELINQUISHED BY/REMOVED FROM Frank Hall CHPRC	DATE/TIME MAY 27 2016 1520	RECEIVED BY/STORED IN L Anderson, TARL	DATE/TIME MAY 27 2016 1520
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
ROUND 2
(1) GAMMA_GS: COMMON {Cesium-137}; GAMMA LL: COBALT 60 LL;

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

PRINTED ON 5/26/2016 FSR ID = FSR32748 TRVL NUM = TRVL-16-127 A-6003-618 (REV 2)

June 23, 2016

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F16-041-088	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7C	DATA TURNAROUND
K.C. Patterson/CHPRC	SUMNER, LC	376-3922	SUMNER, LC	AIR QUALITY ☐	15 Days / 15 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
289-T, Effluent Tank, Valve V07-Y80__* DUP	200W Pump & Treat - ERDF Leachate Sampling		F16-041		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
N/A	HNF-N-49115	N/A	303864	GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica Incorporated, Richland	N/A		N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
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	*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. N/A	PRESERVATION	HNO3 to pH <2
		HOLDING TIME	6 Months
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	3
		VOLUME	1L
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

JLE310414
W07491

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3L19	WATER	MAY 27 2016	1150	✓

M8PJ3

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	ROUND 2 (1) GAMMA_GS: COMMON {Cesium-137}; GAMMA LL: COBALT 60 LL;
K.C. Patterson/CHPRC	MAY 27 2016 1135	Lesly Wall /CHPRC	MAY 27 2016 1135	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Lesly Wall /CHPRC	MAY 27 2016 1520	L. Anderson, TARL	MAY 27 2016 1520	
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	

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

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June 23, 2016

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-041-062	PAGE 1 OF 1
COLLECTOR K.C. Patterson/CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Pre Tc99IX Resin Tanks, Valve V05-Y20	PROJECT DESIGNATION 200W Pump & Treat - ERDF Leachate Sampling		SAF NO. F16-041		
ICE CHEST NO. (N/A)	FIELD LOGBOOK NO. HNF-N-491 15	ACTUAL SAMPLE DEPTH (N/A)	COA 303864	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. N/A

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2
HOLDING TIME	6 Months
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	3
VOLUME	1L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

J6E310414
W07491

m8PJ4

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B35KY2	WATER	MAY 27 2016	1050	✓

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CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM K.C. Patterson/CHPRC	DATE/TIME MAY 27 2016 1250	RECEIVED BY/STORED IN Lesly Wall ACHPRC	DATE/TIME MAY 27 2016 1250
RELINQUISHED BY/REMOVED FROM Lesly Wall ACHPRC	DATE/TIME MAY 27 2016 1520	RECEIVED BY/STORED IN L. Anderson, TARL	DATE/TIME MAY 27 2016 1520
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
ROUND 2
(1) GAMMA_GS: COMMON {Cesium-137}; GAMMA LL: COBALT 60 LL;

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

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June 23, 2016

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F16-041-050	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7C	DATA TURNAROUND
K.C. Patterson/CHPRC	SUMNER, LC	376-3922	SUMNER, LC	AIR QUALITY ☐	15 Days / 15 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
289-TA, Pre-Resin Column, Valve V05-Y10	200W Pump & Treat - ERDF Leachate Sampling		F16-041		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
N/A	HNF-N-491 15	N/A	303864	GOVERNMENT VEHICLE	**ORIGINAL**
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica Incorporated, Richland	N/A		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. N/A

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2
HOLDING TIME	6 Months
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	3
VOLUME	1L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

J6E310414
W0n491

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B35KW9	WATER	MAY 27 2016	1020	✓

m8PJ5

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM K.C. Patterson/CHPRC	DATE/TIME MAY 27 2016 1320	RECEIVED BY/STORED IN Lesly Wall ACS/PRC	DATE/TIME MAY 27 2016 1320
RELINQUISHED BY/REMOVED FROM Lesly Wall ACS/PRC	DATE/TIME MAY 27 2016 1520	RECEIVED BY/STORED IN L. Anderson, TARL	DATE/TIME MAY 27 2016 1520
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
ROUND 2
(1) GAMMA_GS: COMMON {Cesium-137}; GAMMA LL: COBALT 60 LL;

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

PRINTED ON 5/25/2016 FSR ID = FSR32740 TRVL NUM = TRVL-16-127 A-6003-618 (REV 2)

June 23, 2016

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-041-081	PAGE 1 OF 1
COLLECTOR K.C. Patterson/CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Effluent Tank, Valve V07-Y80b*	PROJECT DESIGNATION 200W Pump & Treat - ERDF Leachate Sampling		SAF NO. F16-041		
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-491 15	ACTUAL SAMPLE DEPTH N/A	COA 303864	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*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HNO3 to pH <2
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	*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. N/A	HOLDING TIME	6 Months
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	3
		VOLUME	1L
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

J6E310414
W07491
M8PJ6

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B35L12	WATER	MAY 27 2016	1150	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM K.C. Patterson/CHPRC	DATE/TIME MAY 27 2016 1235	RECEIVED BY/STORED IN Lesly Wall CHPRC	DATE/TIME MAY 27 2016 1235	ROUND 2 (1) GAMMA_GS: COMMON {Cesium-137}; GAMMA LL: COBALT 60 LL;
RELINQUISHED BY/REMOVED FROM Lesly Wall CHPRC	DATE/TIME MAY 27 2016 1520	RECEIVED BY/STORED IN J. Anderson, TAPL	DATE/TIME MAY 27 2016 1520	
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	

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

PRINTED ON 5/25/2016 FSR ID = FSR31340 TRVL NUM = TRVL-16-127 A-6003-618 (REV 2)

June 23, 2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5/27/16 1520 Container GM Screen Result: (Airlock) 0 cpm Initials[LA]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials[LA]

Client: FLH SDG #: W0N491 SAF #: F16-041 NA [ ]

Lot Number: J6E310414

Chain of Custody # F16-041-068; 056; 088; 062; 052; 081

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

Samples received inside shipping container/cooler/box Yes [LA] 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 [LA]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [LA]
3. Cooler temperature: 10.9 °C ICE NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [LA] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [LA] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 6
7. Containers received: 18 x 4g
8. Sample holding times exceeded? NA [ ] Yes [ ] No [LA]
9. Samples have: ____ tape ____ hazard labels LA custody seals LA appropriate sample labels
10. Matrix: ____ A (FLT, Wipe, Solid, Soil) LA I (Water) ____ S (Air, Niosh 7400) ____ T (Biological, Ni-63)
11. Samples:
    LA 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 [LA] 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 [LA]
14. Description of anomalies (include sample numbers): NA [LA]
15. Sample Location, Sample Collector Listed on COC? * Yes [LA] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

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

Sample Check-in List completed by Sample Custodian:
Signature: J. Anderson Date: 5/27/16

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

[BG] No action necessary; process as is

Project Manager Stan Cupp Date 6/1/16

Sample Results Summary

TestAmerica Inc TARL

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

Date: 23-Jun-16

Report No. : 68820

SDG No: W07491

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)		Qual	Units	Tracer Yield	MDL	CRDL	RPD
6153037 GAMMA_GS										
B35KW9										
	M8PJ51AA	CO-60	3.05E+00	+- 1.9E+00	U	pCi/L		4.12E+00	1.00E+01	
		CS-137	7.27E-02	+- 1.4E+00	U	pCi/L		2.53E+00	1.50E+01	
B35KX5										
	M8PJ21AA	CO-60	7.63E-01	+- 1.7E+00	U	pCi/L		3.36E+00	1.00E+01	
		CS-137	-1.09E+00	+- 1.5E+00	U	pCi/L		2.46E+00	1.50E+01	
B35KY2										
	M8PJ41AA	CO-60	-9.34E-01	+- 1.3E+00	U	pCi/L		2.14E+00	1.00E+01	
		CS-137	-2.17E-01	+- 1.2E+00	U	pCi/L		2.12E+00	1.50E+01	
B35KY8										
	M8PJ11AA	CO-60	6.96E-01	+- 1.8E+00	U	pCi/L		3.56E+00	1.00E+01	
		CS-137	3.90E-01	+- 1.3E+00	U	pCi/L		2.44E+00	1.50E+01	
B35KY8 DUP										
	M8PJ11AC	CO-60	-1.08E-01	+- 2.1E+00	U	pCi/L		3.73E+00	1.00E+01	273.7
		CS-137	6.31E-01	+- 2.1E+00	U	pCi/L		3.72E+00	1.50E+01	47.2
B35L12										
	M8PJ61AA	CO-60	-4.14E-01	+- 1.4E+00	U	pCi/L		2.51E+00	1.00E+01	
		CS-137	-2.12E-01	+- 1.3E+00	U	pCi/L		2.20E+00	1.50E+01	
B35L19										
	M8PJ31AA	CO-60	-5.80E-02	+- 1.7E+00	U	pCi/L		3.18E+00	1.00E+01	
		CS-137	-2.35E-02	+- 1.4E+00	U	pCi/L		2.58E+00	1.50E+01	

No. of Results: 14

RPD - Relative Percent Difference.

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

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Date: 23-Jun-16

Report No. : 68820

SDG No.: W07490

Batch Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
GAMMA_GS								
6153037 BLANK QC,								
M8PQ51AA	CO-60	-2.90E-01 +- 1.6E+00	U	pCi/L				2.87E+00
	CS-137	-6.67E-01 +- 1.7E+00	U	pCi/L				2.98E+00
6153037 LCS,								
M8PQ51AC	CO-60	4.22E+01 +- 8.3E+00		pCi/L		112%	0.1	4.05E+00
	CS-137	4.69E+01 +- 8.4E+00		pCi/L		93%	-0.1	4.42E+00

No. of Results: 4

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 23-Jun-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07491	**Collection Date:**	5/27/2016 9:18:00 AM
Lot-Sample No.:	**J6E310414-1**	**Report No. :**	68820	**Received Date:**	5/27/2016 3:20:00 PM
Client Sample ID:	**B35KY8**	**COC No. :**	F16-041-068	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:** M8PJ11AA			**Report DB ID:** 9M8PJ110					
CO-60	**6.96E-01**	U	1.8E+00	1.8E+00	3.56E+00	pCi/L		*0.2*	6/20/16 05:35 p		1.976	GER13$1
						1.78E+00	1.00E+01	*0.76*			L	
CS-137	**3.90E-01**	U	1.3E+00	1.3E+00	2.44E+00	pCi/L		*0.16*	6/20/16 05:35 p		1.976	GER13$1
						1.23E+00	1.50E+01	*0.6*			L	

No. of Results: 2 **Comments:**

June 23, 2016

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TestAmerica Inc
rptSTLRchSample
V5.5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 23-Jun-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07491	**Collection Date:**	5/27/2016 8:30:00 AM
Lot-Sample No.:	**J6E310414-2**	**Report No. :**	68820	**Received Date:**	5/27/2016 3:20:00 PM
Client Sample ID:	**B35KX5**	**COC No. :**	F16-041-056	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:** M8PJ21AA			**Report DB ID:** 9M8PJ210					
CO-60	**7.63E-01**	U	1.7E+00	1.7E+00	3.36E+00	pCi/L		*0.23*	6/20/16 11:54 p		1.9788	GER11$1
						1.68E+00	1.00E+01	*0.88*			L	
CS-137	**-1.09E+00**	U	1.5E+00	1.5E+00	2.46E+00	pCi/L		*-0.44*	6/20/16 11:54 p		1.9788	GER11$1
						1.23E+00	1.50E+01	*-(1.5)*			L	

No. of Results: 2 **Comments:**

June 23, 2016

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

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FORM I

SAMPLE RESULTS

Date: 23-Jun-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07491	**Collection Date:**	5/27/2016 11:50:00 AM
Lot-Sample No.:	**J6E310414-3**	**Report No. :**	68820	**Received Date:**	5/27/2016 3:20:00 PM
Client Sample ID:	**B35L19**	**COC No. :**	F16-041-088	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:** M8PJ31AA			**Report DB ID:** 9M8PJ310					
CO-60	**-5.80E-02**	U	1.7E+00	1.7E+00	3.18E+00	pCi/L		*-0.02*	6/20/16 11:55 p		1.97877	GER13$1
						1.59E+00	1.00E+01	*-0.07*			L	
CS-137	**-2.35E-02**	U	1.4E+00	1.4E+00	2.58E+00	pCi/L		*-0.01*	6/20/16 11:55 p		1.97877	GER13$1
						1.29E+00	1.50E+01	*-0.03*			L	

No. of Results: 2 **Comments:**

June 23, 2016

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TestAmerica Inc
rptSTLRchSample
V5.5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 23-Jun-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07491	**Collection Date:**	5/27/2016 10:50:00 AM
Lot-Sample No.:	**J6E310414-4**	**Report No. :**	68820	**Received Date:**	5/27/2016 3:20:00 PM
Client Sample ID:	**B35KY2**	**COC No. :**	F16-041-062	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:**	M8PJ41AA		**Report DB ID:**	9M8PJ410				
CO-60	**-9.34E-01**	U	1.3E+00	1.3E+00	2.14E+00	pCi/L		*-0.44*	6/20/16 11:57 p		1.9794	GER16$1
						1.08E+00	1.00E+01	*-(1.5)*			L	
CS-137	**-2.17E-01**	U	1.2E+00	1.2E+00	2.12E+00	pCi/L		*-0.1*	6/20/16 11:57 p		1.9794	GER16$1
						1.07E+00	1.50E+01	*-0.37*			L	

No. of Results: 2 **Comments:**

June 23, 2016

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TestAmerica Inc
rptSTLRchSample
V5.5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 23-Jun-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07491	**Collection Date:**	5/27/2016 10:20:00 AM
Lot-Sample No.:	**J6E310414-5**	**Report No. :**	68820	**Received Date:**	5/27/2016 3:20:00 PM
Client Sample ID:	**B35KW9**	**COC No. :**	F16-041-050	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:** M8PJ51AA			**Report DB ID:** 9M8PJ510					
CO-60	**3.05E+00**	U	1.9E+00	1.9E+00	4.12E+00	pCi/L		*0.74*	6/20/16 11:55 p		1.9511	GER17$1
						2.05E+00	1.00E+01	*(3.2)*			L	
CS-137	**7.27E-02**	U	1.4E+00	1.4E+00	2.53E+00	pCi/L		*0.03*	6/20/16 11:55 p		1.9511	GER17$1
						1.27E+00	1.50E+01	*0.11*			L	

No. of Results: 2 **Comments:**

June 23, 2016

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TestAmerica Inc
rptSTLRchSample
V5.5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 23-Jun-16

Lab Name:	**TestAmerica Inc**	**SDG:**	W07491	**Collection Date:**	5/27/2016 11:50:00 AM
Lot-Sample No.:	**J6E310414-6**	**Report No. :**	68820	**Received Date:**	5/27/2016 3:20:00 PM
Client Sample ID:	**B35L12**	**COC No. :**	F16-041-081	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:** M8PJ61AA			**Report DB ID:** 9M8PJ610					
CO-60	**-4.14E-01**	U	1.4E+00	1.4E+00	2.51E+00	pCi/L		*-0.16*	6/20/16 11:56 p		1.9467	GER18$1
						1.26E+00	1.00E+01	*-0.6*			L	
CS-137	**-2.12E-01**	U	1.3E+00	1.3E+00	2.20E+00	pCi/L		*-0.1*	6/20/16 11:56 p		1.9467	GER18$1
						1.11E+00	1.50E+01	*-0.32*			L	

No. of Results: 2 **Comments:**

June 23, 2016

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TestAmerica Inc
rptSTLRchSample
V5.5.1 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 23-Jun-16

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W07491	**Collection Date:**	5/27/2016 9:18:00 AM
Lot-Sample No.:	**J6E310414-1**	**Report No. :**	68820	**Received Date:**	5/27/2016 3:20:00 PM
Client Sample ID:	**B35KY8 DUP**	**COC No. :**	F16-041-068	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:**	M8PJ11AC	**Report DB ID:**	M8PJ11CR		**Orig Sa DB ID:** 9M8PJ110			
CO-60	-1.08E-01	U	2.1E+00	2.1E+00	3.73E+00	pCi/L		-0.03	6/20/16 11:54 p		1.976	GER12$1
	6.96E-01	U	**RPD**	**273.7**		1.00E+01		-0.11			L	
CS-137	6.31E-01	U	2.1E+00	2.1E+00	3.72E+00	pCi/L		0.17	6/20/16 11:54 p		1.976	GER12$1
	3.90E-01	U	**RPD**	**47.2**		1.50E+01		0.61			L	

No. of Results: 2 **Comments:**

June 23, 2016

FORM II

BLANK RESULTS

Date: 23-Jun-16

Lab Name: TestAmerica Inc

Matrix: WATER

SDG: W07490

Report No. : 68820

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:**	M8PQ51AA		**Report DB ID:**	M8PQ51AB				
CO-60	-2.90E-01	U	1.6E+00	1.6E+00	2.87E+00	pCi/L		-0.1	6/20/16 11:55 p		2.0035	GER10$1
					1.45E+00	1.00E+01		-0.36			L	
CS-137	-6.67E-01	U	1.7E+00	1.7E+00	2.98E+00	pCi/L		-0.22	6/20/16 11:55 p		2.0035	GER10$1
					1.49E+00	1.50E+01		-0.77			L	

No. of Results: 2 **Comments:**

June 23, 2016

FORM II

LCS RESULTS

Date: 23-Jun-16

Lab Name: TestAmerica Inc

SDG: W07490

Matrix: WATER

Report No. : 68820

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 6153037	GAMMA_GS			**Work Order:**	M8PQ51AC		**Report DB ID:**	M8PQ51CS					
CO-60	4.22E+01		8.3E+00	8.3E+00	4.05E+00	pCi/L		3.78E+01	3.23E-01	112%	6/21/16 07:55 a	2.0015	GER12$1
							Rec Limits:	80	120	0.1		L	
CS-137	4.69E+01		8.4E+00	8.4E+00	4.42E+00	pCi/L		5.02E+01	5.15E-01	93%	6/21/16 07:55 a	2.0015	GER12$1
							Rec Limits:	80	120	-0.1		L	

No. of Results: 2 **Comments:**

June 23, 2016

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