

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 64 Pages

Report No.: 64841

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.		
W07065	I15-009	B2YXL6	J5A300411-1	M531T1AC	9M531T10	5036036		
		B2YXL6	J5A300411-1	M531T1AD	9M531T10	5036038		
		B2YXL6	J5A300411-1	M531T2AA	9M531T20	5055037		
S15-001		B30051	J5A270438-1	M52611AC	9M526110	5036031		
		B30051	J5A270438-1	M52611AD	9M526110	5036032		
		B30051	J5A270438-1	M52611AA	9M526110	5036037		
		B301B3	J5A270438-2	M52621AC	9M526210	5036031		
		B301B3	J5A270438-2	M52621AD	9M526210	5036032		
		B301B3	J5A270438-2	M52621AG	9M526210	5036033		
		B301B3	J5A270438-2	M52621AE	9M526210	5036034		
		B301B3	J5A270438-2	M52621AF	9M526210	5036035		
		B301B3	J5A270438-2	M52621AH	9M526210	5036036		
		B301B3	J5A270438-2	M52621AA	9M526210	5036037		
		I15-014		B306P1	J5B040412-1	M54R71AD	9M54R710	5036036
				B306P1	J5B040412-1	M54R71AA	9M54R710	5036037
B306P1	J5B040412-1			M54R71AE	9M54R710	5036038		
B306P1	J5B040412-1			M54R72AC	9M54R720	5055037		
B306T3	J5B040428-1			M54XG1AC	9M54XG10	5036035		
B306T3	J5B040428-1			M54XG1AD	9M54XG10	5036036		
B306T3	J5B040428-1			M54XG1AA	9M54XG10	5036037		
B306T3	J5B040428-1			M54XG1AE	9M54XG10	5036038		
B306T4	J5B040428-2			M54XH1AC	9M54XH10	5036035		
B306T4	J5B040428-2			M54XH1AD	9M54XH10	5036036		
B306T4	J5B040428-2			M54XH1AA	9M54XH10	5036037		
B306T4	J5B040428-2			M54XH1AE	9M54XH10	5036038		
B306V0	J5B030458-1	M54PW1AE	9M54PW10	5036036				

Report No.: 64841

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.	
W07065	I15-014	B306V0	J5B030458-1	M54PW1AA	9M54PW10	5036037	
		B306V0	J5B030458-1	M54PW1AD	9M54PW10	5036038	
		B306V0	J5B030458-1	M54PW2AC	9M54PW20	5055037	
		B306V4	J5B040428-3	M54XJ1AC	9M54XJ10	5036035	
		B306V4	J5B040428-3	M54XJ1AD	9M54XJ10	5036036	
		B306V4	J5B040428-3	M54XJ1AA	9M54XJ10	5036037	
		B306V4	J5B040428-3	M54XJ1AE	9M54XJ10	5036038	
		B306W2	J5B040428-4	M54XK1AC	9M54XK10	5036035	
		B306W2	J5B040428-4	M54XK1AD	9M54XK10	5036036	
		B306W2	J5B040428-4	M54XK1AA	9M54XK10	5036037	
		B306W2	J5B040428-4	M54XK1AE	9M54XK10	5036038	
		I15-015	B30704	J5B040426-1	M54XC1AA	9M54XC10	5036035
	B30704		J5B040426-1	M54XC1AC	9M54XC10	5036036	
	B30704		J5B040426-1	M54XC1AD	9M54XC10	5036038	
	B30705		J5B040426-2	M54XD1AA	9M54XD10	5036035	
	B30705		J5B040426-2	M54XD1AC	9M54XD10	5036036	
	B30705		J5B040426-2	M54XD1AD	9M54XD10	5036038	
	B30717		J5A300425-1	M534V1AC	9M534V10	5036035	
	B30717		J5A300425-1	M534V1AD	9M534V10	5036036	
	B30717		J5A300425-1	M534V1AA	9M534V10	5036037	
	B30717		J5A300425-1	M534V1AE	9M534V10	5036038	
	B30719		J5A300425-2	M534W1AC	9M534W10	5036035	
	B30719		J5A300425-2	M534W1AD	9M534W10	5036036	
	B30719		J5A300425-2	M534W1AA	9M534W10	5036037	
	B30719		J5A300425-2	M534W1AE	9M534W10	5036038	
	B30724		J5A300425-3	M534X1AA	9M534X10	5036037	
	B30724		J5A300425-3	M534X1AC	9M534X10	5036038	
	S15-002		B30818	J5B040427-1	M54XE1AA	9M54XE10	5036031
			B30818	J5B040427-1	M54XE1AC	9M54XE10	5036032
		B30971	J5B040427-2	M54XF1AA	9M54XF10	5036031	
		B30971	J5B040427-2	M54XF1AC	9M54XF10	5036032	



Certificate of Analysis

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

February 27, 2015

Attention: Scot Fitzgerald

SAF Number	:	I15-009, I15-014, I15-015, S15-001, S15-002
Date SDG Closed	:	February 5, 2015
Number of Samples	:	Sixteen (16)
Sample Type	:	Water
SDG Number	:	W07065
Data Deliverable	:	30-Day / Summary

CASE NARRATIVE

I. Introduction

Between January 27, 2015, and February 4, 2015, sixteen 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:

Gas Proportional Counting

- Gross Alpha by method RL-GPC-001
- Gross Beta by method RL-GPC-001
- Strontium-90 by method RL-GPC-003

CH2M Hill Plateau Remediation Company
February 27, 2015

Gamma Spectroscopy

Gamma Spec by method RL-GAM-001
Iodine-129 (LL) by method RL-GAM-002
Liquid Scintillation Counting
Technetium-99 by TEVA method RL-LSC-014
Tritium by method RL-LSC-005
Laser Induced Phosphorimetry
Total Uranium by method RL-KPA-003

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

Gas Proportional Counting

Gross Alpha by method RL-GPC-001:

The MDA for samples B30051 and B30051 DUP exceeds the CRDL due to aliquot reduction based on weight screening results. Except as noted, the sample results and associated batch QC results are within contractual requirements.

Gross Beta by method RL-GPC-001:

The MDA for samples B30051 and B30051 DUP exceeds the CRDL due to aliquot reduction based on weight screening results. Except as noted, the sample results and associated batch QC results are within contractual requirements.

Strontium-90 by method RL-GPC-003:

No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Gamma Spectroscopy

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.

Iodine-129 (LL) by method RL-GAM-002:

No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

CH2M Hill Plateau Remediation Company
February 27, 2015

Liquid Scintillation Counting

Technetium-99 by TEVA method RL-LSC-014:

No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

Tritium by method RL-LSC-005:

No analytical or quality issues were noted. The sample results and associated batch QC results are within contractual requirements.

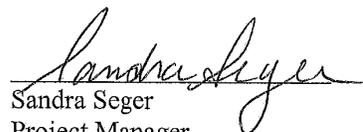
Laser Induced Phosphorimetry

Total Uranium by method RL-KPA-003:

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:


Sandra Seger
Project Manager

SAMPLE ISSUE RESOLUTION	SIR NUM	SDR15-207
	REV NUM	0
	DATE INITIATED	2/9/2015

SAMPLE EVENT INFORMATION

SAF NUM(S) I15-015
OPERABLE UNIT(S) 200-UP-1
PROJECT(S) CERC15
SAMPLE EVENT TITLE(S) CERC15
LABORATORY TestAmerica Incorporated, Richland

SAMPLING INFORMATION

NUMBER OF SAMPLES 1
SAMPLE NUMBERS B30724
SAMPLE MATRIX WATER
COLLECTION DATE 1/30/2015 - 1/30/2015
SDG NUM W07065

ISSUE BACKGROUND

CLASS Chain of Custody Issue (Field)
TYPE No/Illegible Sample Collector Listed on COC
DESCRIPTION Upon chain of custody data entry for SDG W07065, COCs #I15-015-024 (Sample #B30724, the "Collector" information is missing.

DISPOSITION

DESCRIPTION PROPOSED DISPOSITION: Document and close
JUSTIFICATION ACCEPTED DISPOSITION: Document and close
 SUBMITTED BY: Gayelyn Gibson Date: 2/2/2015
 ACCEPTED BY: Sara Champoux Date: 2/9/2015

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR15-243
REV NUM	0
DATE INITIATED	3/17/2015

SAMPLE EVENT INFORMATION

SAF NUM(S) S15-001, X15-017
OPERABLE UNIT(S) NONE
PROJECT(S) SURV15
SAMPLE EVENT TITLE(S) SURV15
LABORATORY TestAmerica Incorporated, Richland

SAMPLING INFORMATION

NUMBER OF SAMPLES 2
SAMPLE NUMBERS B2YP72, B301B3
SAMPLE MATRIX WATER
COLLECTION DATE 1/27/2015 - 2/3/2015
SDG NUM W07065, W07069

ISSUE BACKGROUND

CLASS Chain of Custody Issue (Field)
TYPE Incorrect Relinquish/Receipt Date/Time
DESCRIPTION COC# S15-001-300, sample B301B3. missing signatures for D. W. Brotherton.
 COC# X15-017-042, sample B2YP72. missing time in the first relinquish box.

DISPOSITION

DESCRIPTION Document and close
JUSTIFICATION Document and close
 Submitted by: Kira Murray Date:03/11/15
 Accepted by: Kirsten Killand Date: 03/17/15

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, $R = \text{constants} * f(x,y,z,...)$. 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/\sqrt{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.
Total Uncert (#s) <i>u_c - Combined Uncertainty.</i>	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, <i>u_c the combined uncertainty</i> . 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.

CH2MHHI Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S15-001-232			
Collector K.C. Patterson CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Page 1 of 1			
SAF No. S15-001		Sampling Origin Hanford Site	Purchase Order/Charge Code 300071				
Project Title SURV, JANUARY 2015		Loghook No. HNF-N-506 70/20	Ice Chest No. N/A				
Shipped To (Lab) TestAmerica Incorporated, Richland		Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A				
Protocol SURV		Priority: 30 Days	Offsite Property No. N/A				
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS		Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1							
Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30051	N	JAN 27 2015	1117	1x1-L-P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B30051	N	W	↓	1x1-L-P	9310_ALPHA_BETA_GPC: COMMON	6 Months	HNO3 to pH <2

SSA and H38
W01065



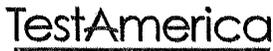
Reinquisitioned By K.C. Patterson	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time JAN 27 2015 1250	Received By D.W. Brotherton/CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time JAN 27 2015 1250	Matrix *
Requisitioned By CHPRC				Received By <i>[Signature]</i>	J. Bock, TARL		JAN 27 2015 1435	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Reinquisitioned By				Received By				
Reinquisitioned By				Received By				

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # S15-001-300	
Collector S.W. King/CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Page 1 of 1	
SAF No. S15-001	Sampling Origin Hanford Site	Logbook No. HNF-N-50671/50	Purchase Order/Charge Code 300071		
Project Title SURV, JANUARY 2015	Method of Shipment GOVERNMENT VEHICLE	Ice Chest No. N/A	Bill of Lading/Air Bill No. N/A		
Shipped To (Lab) TestAmerica Incorporated, Richland	Priority: 30 Days	Offsite Property No. N/A	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Protocol SURV	SPECIAL INSTRUCTIONS				
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1					
Sample No.	Filter	Date	No/Type Container	Sample Analysis	Preservative
B301B3	N	JAN 27 2015 0830	1x1-L P	906.0 TRITIUM_LSC: COMMON	None
B301B3	N	JAN 27 2015 0830	1x1-L P	9310 ALPHABETA_GPC: COMMON	HNO3 to pH <2
B301B3	N	JAN 27 2015 0830	3x1-L GIP	GAMMA_GS: COMMON	HNO3 to pH <2
B301B3	N	JAN 27 2015 0830	2x4-L GIP	1129LL_SEP_LEPS_GS_LL: COMMON	None
B301B3	N	JAN 27 2015 0830	3x1-L GIP	SRISO_SEP_PRECIP_GPC: COMMON	HNO3 to pH <2
B301B3	N	JAN 27 2015 0830	1x500-mL P	TC99_ETVDSK_LSC: COMMON	HCl to pH <2

JSA270438
W07205



Reinquished By S.W. King/CHPRC	Print <i>[Signature]</i>	Sign	Date/Time JAN 27 2015 1300	Received By D.W. Brotherton/CHPRC	Print	Sign	Date/Time JAN 27 2015 1300	Matrix *
Reinquished By D.W. Brotherton/CHPRC	Print <i>[Signature]</i>	Sign	Date/Time JAN 27 2015 1435	Received By <i>[Signature]</i>	Print	Sign J. Bock, TAPL	Date/Time JAN 27 2015 1435	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Reinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time		



Sample Check-in List

THE LEADER IN ENVIRONMENTAL TESTING

Date/Time Received: 1-27-15/1435 Container GM Screen Result: (Airlock) 40 cpm Initials [B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [B]

Client: Plw SDG #: W07065 SAF #: S15-001 NA []

Lot Number: JSA270438

Chain of Custody # S15-001-232-300

Shipping Container ID or Air Bill Number : hand deliv. NA 675

Samples received inside shipping container/cooler/box Yes [B] 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 [B]
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [B]
3. Cooler temperature: 6.6 c Ice NA []
4. Vermiculite/packing materials is NA [B] Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [B] No []
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 1 x 500 mL, 10 x 4L, 2 x 4L

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

- 11. Samples: [B] 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 [B] 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 [B]
14. Description of anomalies (include sample numbers): NA [B]

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

16. Additional Information: N/A

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

Sample Check-in List completed by Sample Custodian:

Signature: [Signature] Date: 1-27-15

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

[B] No action necessary; process as is

Project Manager [Signature] Date: 1-28-14

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# I15-009-015	
				Page 1 of 1	

Collector S.W. King/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. I15-009	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title 200ZP1, JANUARY 2015	Logbook No. HNF-N-50671 / 58	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YXL6	N		JAN 29 2015	1137	2x4-L G/P	1129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B2YXL6	N		JAN 29 2015	1137	1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B2YXL6	N		JAN 29 2015	1137	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

JSA300411
W00065



Relinquished By S.W. King/CHPRC	Print <i>[Signature]</i>	Sign	Date/Time JAN 29 2015 1345	Received By J.C. Fulton CHPRC	Print <i>[Signature]</i>	Sign	Date/Time JAN 29 2015 1450
Relinquished By CHPRC	Print <i>[Signature]</i>	Sign	Date/Time JAN 29 2015 1450	Received By J. Friesz, TARL	Print <i>[Signature]</i>	Sign	Date/Time JAN 29 2015 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

S	=	Soil	DS	=	Drum Solids
SE	=	Sediment	DL	=	Drum Liquids
SO	=	Solid	T	=	Tissue
SL	=	Sludge	WI	=	Wipe
W	=	Water	L	=	Liquid
O	=	Oil	V	=	Vegetation
A	=	Air	X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) _____ Date/Time _____



Sample Check-in List

Date/Time Received: 1/29/15 1450 Container GM Screen Result: (Airlock) 20 cpm Initials [J]
Sample GM Screen Result (Sample Receiving) 20 cpm Initials [J]

Client: RBW SDG #: WD 7065 SAF #: I15-009 NA []

Lot Number: JSA 30044

Chain of Custody # I15-009-015

Shipping Container ID or Air Bill Number : Hand Delivered NA BLS

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: 4.5 °C WICE 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: 2 x 500 mL; 2 x 4 L

- 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 I (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: 1/29/15

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

[J] No action necessary; process as is
Project Manager [Signature] Date 1-30-15

CH2M HILL Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # I15-015-020
Collector: K.C. Patterson/CHPRC		Contact/Requester: Karen Waters-Husted	Telephone No.:	509-376-4650		
SAF No. I15-015		Sampling Origin: Hanford Site	Purchase Order/Charge Code:	300071		
Project Title: 200-UP-1, FEB 2015		Logbook No. HNF-N-506 <u>67/82</u>	Ice Chest No.:	N/A		
Shipped To (Lab): <u>TestAmerica Incorporated, Richland</u>		Method of Shipment: GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.:	N/A		
Protocol: CERCLA		Priority: 30 Days	Offsite Property No.:	N/A		
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR /IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1						

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30717	N	W	1-30-15	0926	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B30717	N	W	/	/	2x4-L G/P	1129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B30717	N	W	/	/	1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B30717	N	W	1-30-15	0926	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

ISA300425
W07065



J5A300425

Reinquished By: K.C. Patterson/CHPRC	Print	Sign	Date/Time: JAN 30 2015 1046	Received By: F.M. Hall	Print	Sign	Date/Time: JAN 30 2015 1046
Reinquished By: F.M. Hall	Print	Sign	Date/Time: JAN 30 2015 1430	Received By: J. Bock	Print	Sign	Date/Time: JAN 30 2015 1430
Reinquished By: CHPRC	Print	Sign	Date/Time: JAN 30 2015 1430	Received By: J. Bock, TARL	Print	Sign	Date/Time: JAN 30 2015 1430
Reinquished By:	Print	Sign	Date/Time:	Received By:	Print	Sign	Date/Time:

Matrix *	S	= Soil	DS	= Drum Solids
	SE	= Sediment	DL	= Drum Liquids
	SO	= Solid	T	= Tissue
	SL	= Sludge	WI	= Wipe
	W	= Water	L	= Liquid
	O	= Oil	V	= Vegetation
	A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Date/Time
PRINTED 0 12/31/2014	A-6004-842 (REV 2)	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # I15-015-021 Page 1 of 1
Collector K.C. Patterson/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650				
SAF No. I15-015	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071				
Project Title 200-UP-1, FEB 2015	Logbook No. HNF-N-506 67 / 82	Ice Chest No. N/A				
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A				
Protocol CERCLA	Priority 30 Days	Offsite Property No. N/A				
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS		Hold Time		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		906.0 TRITIUM_LSC: COMMON		6 Months		Preservative
Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Preservative
B30719	N	W 1-30-15	0814	1x1-L P	906.0 TRITIUM_LSC: COMMON	None
B30719	N	W 1-30-15	1	2x4-L G/P	1129LL_SEP_LEPS_GS_LL: COMMON	None
B30719	N	W 1-30-15	0814	1x500-mL G/P	KPA_UTOT: COMMON	HNO3 to pH <2
B30719	N	W 1-30-15	0814	1x500-mL P	TC99_ETVDSK_LSC: COMMON	HCl to pH <2

ISA300425
W07065

Relinquished By K.C. Patterson/CHPRC	Print 	Date/Time JAN 30 2015 0905	Received By F.M. Hall/CHPRC	Print 	Date/Time JAN 30 2015 0905	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By F.M. Hall/CHPRC	Print 	Date/Time JAN 30 2015 1430	Received By J. Bock, TARL	Print 	Date/Time JAN 30 2015 1430	
Relinquished By	Print	Date/Time	Received By	Print	Date/Time	
Relinquished By	Print	Date/Time	Received By	Print	Date/Time	
FINAL SAMPLE DISPOSITION						
Disposal Method (e.g., Return to customer, per lab procedure, used in process)						
Disposed By						
Date/Time						

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # I15-015-024	
				Page 1 of 1	
Collector	I15-015	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	200-UP-1, FEB 2015	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	TestAmerica Incorporated, Richland	Logbook No.	HNF-N-506 7/1 60	Ice Chest No.	N/A
Shipped To (Lab)	CERCLA	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	POSSIBLE SAMPLE HAZARDS/REMARKS	Priority:	30 Days	Offsite Property No.	N/A
	** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1	SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis
B30724	N	JAN 30 2015	1134	1X1-L-P	906.0 TRITIUM_LSC: COMMON
B30724	N	W	↓	1X500-mL GIP	KPA_UTOT: COMMON
					M5347
					Holding Time
					6 Months
					6 Months
					Preservative
					None
					HNO3 to pH <2

SSA3004AS
W0006S

Requisitioned By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
S.W. King	CHPRC		JAN 30 2015 1252	F.M. Hall	CHPRC		JAN 30 2015 1252	S = Soil
Requisitioned By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	DS = Drum Solids
F.M. Hall	CHPRC		JAN 30 2015 1430	J. Bock, TARL	CHPRC		JAN 30 2015 1430	DL = Drum Liquids
Requisitioned By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	T = Tissue
								WI = Wipe
								L = Liquid
								V = Vegetation
								X = Other
Requisitioned By	Date/Time	Date/Time	Date/Time	Received By	Date/Time	Date/Time	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time



Sample Check-in List

Date/Time Received: 1-30-15/1430 Container GM Screen Result: (Airlock) 0 cpm Initials [B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [B]

Client: Plw SDG #: W07065 SAF #: I15-015 NA []

Lot Number: JSA300425

Chain of Custody # I15-015-020; 021; 024

Shipping Container ID or Air Bill Number: Hand deliv. NA []

Samples received inside shipping container/cooler/box Yes [B] 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 [B]
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [B]
3. Cooler temperature: 4.3 °C Ice NA []
4. Vermiculite/packing materials is NA [B] Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [B] No []
6. Number of samples received (Each sample may contain multiple bottles): 3
7. Containers received: 5x500mlp; 3x4p; 4x4p

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

11. Samples: [B] 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 [B] 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 [B]

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

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

16. Additional Information: P/A

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

Sample Check-in List completed by Sample Custodian:
Signature: Julie Beck Date: 1-30-15

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

[X] No action necessary; process as is

Project Manager: Sandra Leguer Date: 2-2-15

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# **115-014-055**
Page 1 of 1

Collector **S.W. King/CHPRC** Telephone No. **509-376-4650**

SAF No. **115-014** Purchase Order/Charge Code **300071**

Project Title **200-ZP-1, FEB 2015** Ice Chest No. **N/A**

Shipped To (Lab) **TestAmerica Incorporated, Richland** Method of Shipment **GOVERNMENT VEHICLE** Bill of Lading/Air Bill No. **N/A**

Protocol **CERCLA** Priority: **30 Days** **PRIORITY** Offsite Property No. **N/A**

POSSIBLE SAMPLE HAZARDS/REMARKS

*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS **HOLD TIME** Total Activity Exemption: Yes No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306V0	N	W	FEB 03 2015	0946	1x1-L P	906.0_TRTIUM_LSC: COMMON	6 Months	None
B306V0	N	W	↓	↓	2x4-L G/P	1129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B306V0	N	W	↓	↓	1x500-ml G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B306V0	N	W	FEB 03 2015	0946	1x500-ml P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

550303058
W07065



Requisitioned By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
S.W. King/CHPRC	<i>[Signature]</i>	<i>[Signature]</i>	FEB 03 2015	F.M. Hall CHPRC	<i>[Signature]</i>	<i>[Signature]</i>	FEB 03 2015	S = Soil, DS = Drum Solids, DL = Drum Liquids, SE = Sediment, T = Tissue, SO = Solid, WI = Wipe, SL = Sludge, W = Water, L = Liquid, O = Oil, V = Vegetation, A = Air, X = Other
F.M. Hall CHPRC	<i>[Signature]</i>	<i>[Signature]</i>	FEB 03 2015	Book J. Boux TALE	<i>[Signature]</i>	<i>[Signature]</i>	FEB 03 2015	
Requisitioned By			Date/Time	Received By			Date/Time	
Requisitioned By			Date/Time	Received By			Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Date/Time	



Sample Check-in List

Date/Time Received: 2-3-15/1400 Container GM Screen Result: (Airlock) 20 cpm Initials [B]
Sample GM Screen Result (Sample Receiving) 20 cpm Initials [B]

Client: Plw SDG #: W07065 SAF #: I15-014 NA []

Lot Number: JSP030458

Chain of Custody # I15-014-055

Shipping Container ID or Air Bill Number: Hand deliv NA [B]

Samples received inside shipping container/cooler/box Yes [B] 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 [B]
2. Custody Seals dated and signed? Yes [] No [] No Custody Seal [B]
3. Cooler temperature: 5.9 °C NA []
4. Vermiculite/packing materials is NA [B] Wet [] Dry []

Item 5 through 16 for samples. Initial appropriate response.
5. Chain of Custody record present? Yes [B] No []
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 2 x 500 mL; 1 x 4; 2 x 4

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

11. Samples: [B] 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 [B] 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 [B]
14. Description of anomalies (include sample numbers): NA [B]

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

16. Additional Information: N/A

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

Sample Check-in-List completed by Sample Custodian:
Signature: [Signature] Date: 2-3-15

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

[B] No action necessary; process as is
Project Manager: [Signature] Date: 2-4-15

CH2M Hill Plateau Remediation Company		C.O.C.# I15-014-041 Page 1 of 1					
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST							
Collector S.W. King/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650					
SAF No. I15-014	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071					
Project Title 200-ZP-1, FEB 2015	Logbook No. HNF-N-506 <i>71 / 64</i>	Ice Chest No. N/A					
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A					
Protocol CERCLA	Priority: 30 Days PRIORITY	Offsite Property No. N/A					
SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1							
Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306P1	N	W FEB 03 2015	1423	1x1-L P	906.0 TRITIUM_LSC: COMMON	6 Months	None
B306P1	N	W		2x4-L G/P	1129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B306P1	N	W		1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B306P1	N	W FEB 03 2015	1423	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2



J5B 040 412
 W0 2065
 Due 3/6/15

Relinquished By S.W. King/CHPRC	Print SSU-1	Sign [Signature]	Date/Time FEB 03 2015 1500	Received By SSU-1	Sign [Signature]	Date/Time FEB 03 2015 1500	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By SSU-1	Print F.M. Hall CHPRC	Sign [Signature]	Date/Time FEB 04 2015 0600	Received By F.M. Hall CHPRC	Sign [Signature]	Date/Time FEB 04 2015 0600	
Relinquished By CHPRC	Print J. Friesz, TARC	Sign [Signature]	Date/Time FEB 04 2015 0850	Received By J. Friesz, TARC	Sign [Signature]	Date/Time FEB 04 2015 0850	
Relinquished By CHPRC	Print [Blank]	Sign [Blank]	Date/Time FEB 04 2015	Received By [Blank]	Sign [Blank]	Date/Time FEB 04 2015	
Disposed By [Blank]							Date/Time [Blank]
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process)							Date/Time [Blank]



Sample Check-in List

THE LEADER IN ENVIRONMENTAL TESTING

Date/Time Received: 2/4/15 0850 Container GM Screen Result: (Airlock) 20 cpm Initials [J]

Sample GM Screen Result (Sample Receiving) 0 cpm Initials [J]

Client: PGW SDG #: W07065 SAF #: I15-014 NA []

Lot Number: J5B040412

Chain of Custody # I15-014-041

Shipping Container ID or Air Bill Number: Hand Delivered NA [SKS]

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: 53 ON ICE 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: 1x1p; 2x500mlp; 2x4lp

- 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 I (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: 2/4/15

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

[SKS] No action necessary; process as is Project Manager: [Signature] Date: 2-3-2-4-15 SKS 2-4-15

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# I15-015-014 Page 1 of 1	
Collector S.W. King/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Purchase Order/Charge Code 300071		
SAF No. I15-015	Sampling Origin Hanford Site	Logbook No. HNF-N-506 <u>71 / 666</u>	Ice Chest No. N/A		
Project Title 200-UP-1, FEB 2015	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A	Offsite Property No. N/A		
Shipped To (Lab) TestAmerica Incorporated, Richland	Priority: 30 Days	SPECIAL INSTRUCTIONS Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Protocol CERCLA	POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1	Sample Analysis 1129LL_SEP_LEPS_GS_LL: COMMON KPA_UTOT: COMMON TC99_ETVDSK_LSC: COMMON <u>MSHXC</u>	Holding Time 6 Months 6 Months 6 Months	Preservative None HNO3 to pH <2 HCl to pH <2	

JSB040426
 W01045



Relinquished By S.W. King/CHPRC	Date/Time FEB 04 2015 10:20	Received By R.A. Shepard/CHPRC	Date/Time FEB 04 2015 10:00	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By R.A. Shepard/CHPRC	Date/Time FEB 04 2015 14:25	Received By J. Pitesz, TARU	Date/Time FEB 04 2015 14:29	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By [Signature]	Date/Time FEB 04 2015	Received By [Signature]	Date/Time FEB 04 2015	
Relinquished By [Signature]	Date/Time FEB 04 2015	Received By [Signature]	Date/Time FEB 04 2015	
Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By	Date/Time

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # I15-015-015 Page 1 of 1	
Collector S.W. King/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650					
SAF No. I15-015	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071					
Project Title 200-UP-1, FEB 2015	Logbook No. HNF-N-506 71 / <i>WJ</i>	Ice Chest No. N/A					
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A					
Protocol CERCLA	Priority: 30 Days	Offsite Property No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			SPECIAL INSTRUCTIONS Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sample No.	Filter *	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B30705	N	FEB 04 2015	0821	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B30705	N	W	✓	1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B30705	N	FEB 04 2015	0821	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

558040424
W07065

Relinquished By S.W. King/CHPRC	Date/Time FEB 04 2015	Received By R.A. Shepard/CHPRC	Date/Time FEB 04 2015	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By R.A. Shepard/CHPRC	Date/Time FEB 04 2015	Received By J. Friesz, TARL	Date/Time FEB 04 2015	Matrix * DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 2/4/15 1425 Container GM Screen Result: (Airlock) 20 cpm Initials [J] Sample GM Screen Result (Sample Receiving) 8 cpm Initials [J]

Client: PKW SDG #: W07045 SAF #: I15-015 NA []

Lot Number: JSB040424

Chain of Custody # I15-015-014, 015

Shipping Container ID or Air Bill Number: Hand Delivered NA [SKS]

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: 4.4 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): 2
7. Containers received: 4 x 500 mL; 4 x 4 L

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 I (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: 2/4/15

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

No action necessary; process as is Project Manager: [Signature] Date: 2-5-15

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S15-002-186 Page 1 of 1	
Collector S.W. King/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Purchase Order/Charge Code 300071	Ice Chest No. N/A	Bill of Lading/Air Bill No. N/A
SAF No. S15-002	Sampling Origin Hanford Site	Logbook No. HNF-N-506 71 / 64	Method of Shipment GOVERNMENT VEHICLE	Offsite Property No. N/A	Priority 30 Days PRIORITY
Project Title SURV, FEB 2015	Shipped To (Lab) TestAmerica Incorporated, Richland	SPECIAL INSTRUCTIONS Hold Time	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1
Protocol SURV	Priority 30 Days	Sample Analysis 9310_ALPHA BETA_GPC: COMMON MSY KE	Holding Time 6 Months	Preservative HNO3 to pH <2	
Sample No. B30818	Filter * N	Date FEB 04 2015	No/Type Container 1X1-LP	Sample Analysis 9310_ALPHA BETA_GPC: COMMON MSY KE	Holding Time 6 Months

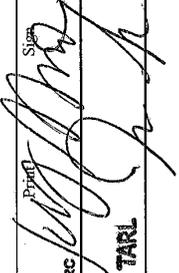
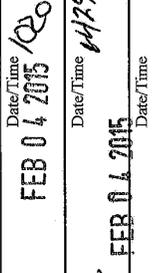
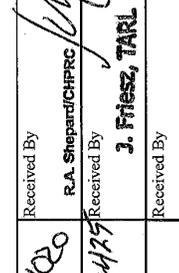
556040427
 W07045



Relinquished By S.W. King/CHPRC	Sign 	Date/Time FEB 04 2015 1020	Received By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015 1425	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015 1425	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wine L = Liquid V = Vegetation X = Other
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL	Sign 	Date/Time FEB 04 2015	
Relinquished By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015	Received By J. Friesz, TAPL			

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # S15-002-237	
Collector S.W. King/CHPRC		Contact/Requester Karen Waters-Husted		Telephone No. 509-376-4650	
SAF No. S15-002		Sampling Origin Hanford Site		Purchase Order/Charge Code 300071	
Project Title SURV, FEB 2015		Logbook No. HNF-N-506 71 / 666		Ice Chest No. N/A	
Shipped To (Lab) TestAmerica Incorporated, Richland		Method of Shipment GOVERNMENT VEHICLE		Bill of Lading/Air Bill No. N/A	
Protocol SURV		Priority: 30 Days		Offsite Property No. N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		SPECIAL INSTRUCTIONS Hold Time		Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Sample No. B30971		No/Type Container 1x1-LP		Holding Time 6 Months	
Filter N		Date FEB 04 2015 0951		Sample Analysis 9310_ALPHA BETA_GPC: COMMON M SUNE	
Time 0951		Date FEB 04 2015		Preservative HNO3 to pH <2	

55604042N
WONDS

Relinquished By S.W. King/CHPRC	Print 	Date/Time FEB 04 2015 1020	Received By R.A. Shepard/CHPRC	Sign 	Date/Time FEB 04 2015 1020	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By R.A. Shepard/CHPRC	Print 	Date/Time FEB 04 2015 1425	Received By J. Friesz, TARL	Sign 	Date/Time FEB 04 2015 1425	
Relinquished By (Blank)	Print (Blank)	Date/Time FEB 04 2015	Received By (Blank)	Sign (Blank)	Date/Time (Blank)	
Relinquished By (Blank)	Print (Blank)	Date/Time (Blank)	Received By (Blank)	Sign (Blank)	Date/Time (Blank)	
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 2/4/15 1425 Container GM Screen Result: (Airlock) 20 cpm Initials [J] Sample GM Screen Result (Sample Receiving) 0 cpm Initials [J]

Client: Plw SDG #: W07065 SAF #: S15-002 NA []

Lot Number: J58040427

Chain of Custody # S15-002-186, 237

Shipping Container ID or Air Bill Number: Hand Delivered NA [SIS]

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: 44 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): 2
7. Containers received: 2 x LP

- 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 I (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 []
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: 2/4/15

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

[SIS] No action necessary; process as is

Project Manager Sandra Legere Date 2-5-15

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# **I15-014-051**
Page 1 of 1

Collector: **S.W. King/CHPRC** Contact/Requester: **Karen Waters-Husted** Telephone No.: **509-376-4650**

SAF No.: **I15-014** Sampling Origin: **Hanford Site** Purchase Order/Charge Code: **300071**

Project Title: **200-ZP-1, FEB 2015** Logbook No.: **HNF-N-506 71 / Udy** Ice Chest No.: **N/A**

Shipped To (Lab): **TestAmerica Incorporated, Richland** Method of Shipment: **GOVERNMENT VEHICLE** Bill of Lading/Air Bill No.: **N/A**

Protocol: **CERCLA** Priority: **30 Days** SPECIAL INSTRUCTIONS: **PRIORITY** Offsite Property No.: **N/A**

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR /IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

Total Activity Exemption: Yes No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306T3	N	W	FEB 04 2015	0951	1x1-L P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B306T3	N	W			2x4-L G/P	1129L_SEP_LEPS_GS_LL: COMMON	6 Months	None
B306T3	N	W			1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B306T3	N	W	FEB 04 2015	0951	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

558040428
w00n065



Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
S.W. King/CHPRC		<i>[Signature]</i>	FEB 04 2015 1020	R.A. Shepard/CHPRC		<i>[Signature]</i>	FEB 04 2015 1424	S = Soil, DS = Drum Solids, SE = Sediment, DL = Drum Liquids, SO = Solid, T = Tissue, SL = Sludge, WI = Wipe, SW = Water, L = Liquid, O = Oil, V = Vegetation, A = Air, X = Other
R.A. Shepard/CHPRC		<i>[Signature]</i>	FEB 04 2015 1425	J. Friesz, TARR		<i>[Signature]</i>	FEB 04 2015	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process): _____

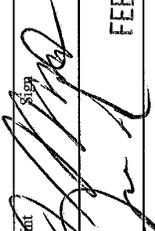
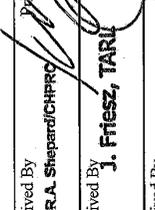
Disposed By: _____ Date/Time: _____

PRINTED 0 1/7/2015

A-6004-842 (REV 2)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # 115-014-053				
Collector S.W. King/CHPRC		Contact/Requester Karen Waters-Husted		Telephone No. 509-376-4650				
SAF No. I15-014		Sampling Origin Hanford Site		Purchase Order/Charge Code 300071				
Project Title 200-ZP-1, FEB 2015		Logbook No. HNF-N-506 71 / 100		Ice Chest No. N/A				
Shipped To (Lab) TestAmerica Incorporated, Richland		Method of Shipment GOVERNMENT VEHICLE		Bill of Lading/Air Bill No. N/A				
Protocol CERCLA		Priority: 30 Days		Offsite Property No. N/A				
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1								
SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306T4	N	W	FEB 04 2015	0951	1x1-LP	906.0_TRITIUM_LSC: COMMON	6 Months	None
B306T4	N	W	↓	↓	2x4-L G/P	I129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B306T4	N	W	↓	↓	1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B306T4	N	W	FEB 04 2015	0951	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

SS604042
W0ND06S

Relinquished By S.W. King/CHPRC	Date/Time FEB 04 2015 0900	Received By R.A. Shepard/CHPRC	Date/Time FEB 04 2015 1020	Sign 	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By R.A. Shepard/CHPRC	Date/Time FEB 04 2015 1425	Received By J. Friesz, TARU	Date/Time FEB 04 2015 1425	Sign 	
Relinquished By (Blank)	Date/Time FEB 04 2015	Received By (Blank)	Date/Time FEB 04 2015	Sign (Blank)	
Relinquished By (Blank)	Date/Time (Blank)	Received By (Blank)	Date/Time (Blank)	Sign (Blank)	
FINAL SAMPLE DISPOSITION			Disposal Method (e.g., Return to customer, per lab procedure, used in process)		
Disposed By			Date/Time		

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # I15-014-057			
Collector S.W. King/CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Page 1 of 1			
SAF No. I15-014	Sampling Origin Hanford Site	Logbook No. HNF-N-506 71 / 666	Purchase Order/Charge Code 300071				
Project Title 200-ZP-1, FEB 2015	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A	Ice Chest No. N/A				
Shipped To (Lab) TestAmerica Incorporated, Richland	Priority 30 Days	Offsite Property No. N/A					
Protocol CERCLA	SPECIAL INSTRUCTIONS Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1							
Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306V4	N	W FEB 04 2015	1052	1x1-L P	906_0_TRITIUM_LSC: COMMON	6 Months	None
B306V4	N	W FEB 04 2015	↓	2x4-L G/P	1129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B306V4	N	W FEB 04 2015	↓	1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B306V4	N	W FEB 04 2015	1052	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

JSB040428
W07065

Relinquished By S.W. King/CHPRC	Print S.W. King	Signature <i>[Signature]</i>	Date/Time FEB 04 2015	Received By F.M. Hall CHPRC	Print F.M. Hall	Signature <i>[Signature]</i>	Date/Time FEB 04 2015	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	Matrix * DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By F.M. Hall CHPRC	Print F.M. Hall	Signature <i>[Signature]</i>	Date/Time FEB 04 2015	Received By J. Friesz, TARL CHPRC	Print J. Friesz, TARL	Signature <i>[Signature]</i>	Date/Time FEB 04 2015		
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time			

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # I15-014-061			
Collector S.W. King/CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	Page 1 of 1			
SAF No. I15-014	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071					
Project Title 200-ZP-1, FEB 2015	Logbook No. HNF-N-506-71 / 66	Ice Chest No. N/A					
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A					
Protocol CERCLA	Priority: 30 Days	PRIORITY	Offsite Property No. N/A				
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1							
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B306W2	N	FEB 04 2015	1310	1x1-L P	906-0_TRITIUM_LSC: COMMON	6 Months	None
B306W2	N	↑	↑	2x4-L G/P	1129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B306W2	N	↑	↑	1x500-mL G/P	KPA_UTOT: COMMON	6 Months	HNO3 to pH <2
B306W2	N	FEB 04 2015	1310	1x500-mL P	TC99_ETVDSK_LSC: COMMON	6 Months	HCl to pH <2

JSBOYOHAS
wonders

Relinquished By S.W. King/CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time FEB 04 2015 1320	Received By CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time FEB 04 2015 1320	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WL = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By F.M. Hall	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time FEB 04 2015 1429	Received By J. Friesz, TARL	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time FEB 04 2015 1429	
Relinquished By CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time FEB 04 2015 1429	Received By	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	
FINAL SAMPLE DISPOSITION				Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Date/Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 2/4/15 1425 Container GM Screen Result: (Airlock) 20 cpm Initials [J]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [J]

Client: Plw SDG #: W07065 SAF #: I15-014 NA []

Lot Number: 25B040428

Chain of Custody # I15-014-051; 053; 057; 061

Shipping Container ID or Air Bill Number : Hand Delivered 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: 4.4 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): 4
7. Containers received: 8x500ml; 4x4; 8x4

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 I (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: 2/4/15

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

[J] No action necessary; process as is

Project Manager [Signature] Date 2-5-14

Sample Results Summary

Date: 27-Feb-15

TestAmerica Inc TARL

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

Report No. : 64841

SDG No: W07065

Client Id	Batch	Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
5036033 SRISO_SEP_PRECIP_GPC										
B301B3										
	M52621AG		STRONTIUM	2.12E-01 +- 2.6E-01	U	pCi/L	79%	5.27E-01	2.00E+00	
B301B3 DUP										
	M52621AJ		STRONTIUM	2.25E-01 +- 2.1E-01	U	pCi/L	97%	3.98E-01	2.00E+00	6.0
5036034 GAMMA_GS										
B301B3										
	M52621AE		CO-60	-1.04E-01 +- 1.1E+00	U	pCi/L		2.14E+00	2.50E+01	
			CS-137	1.11E+00 +- 1.0E+00	U	pCi/L		2.05E+00	1.50E+01	
			EU-152	9.60E-01 +- 2.2E+00	U	pCi/L		4.02E+00	5.00E+01	
			EU-154	-3.59E-01 +- 3.6E+00	U	pCi/L		6.70E+00	5.00E+01	
			EU-155	1.12E+00 +- 1.3E+00	U	pCi/L		2.47E+00	5.00E+01	
B301B3 DUP										
	M52621AK		CO-60	1.15E-01 +- 1.0E+00	U	pCi/L		2.01E+00	2.50E+01	3853.1
			CS-137	5.15E-01 +- 1.2E+00	U	pCi/L		1.90E+00	1.50E+01	72.9
			EU-152	-2.15E+00 +- 2.5E+00	U	pCi/L		4.19E+00	5.00E+01	-521.5
			EU-154	-5.19E-01 +- 2.9E+00	U	pCi/L		5.49E+00	5.00E+01	-36.4
			EU-155	-2.01E+00 +- 1.6E+00	U	pCi/L		2.56E+00	5.00E+01	-707.1
5036035 I129LL_SEP_LEPS_GS										
B301B3										
	M52621AF	I129		2.03E-01 +- 1.7E-01	U	pCi/L	93%	3.42E-01	1.00E+00	
B301B3 DUP										
	M52621AL	I129		2.38E-01 +- 1.7E-01	U	pCi/L	83%	3.54E-01	1.00E+00	15.9
B306T3										
	M54XG1AC	I129		-2.59E-02 +- 1.2E-01	U	pCi/L	88%	2.18E-01	1.00E+00	
B306T4										
	M54XH1AC	I129		1.77E-02 +- 1.5E-01	U	pCi/L	89%	2.87E-01	1.00E+00	
B306V4										
	M54XJ1AC	I129		-2.43E-03 +- 1.5E-01	U	pCi/L	79%	2.87E-01	1.00E+00	
B306W2										
	M54XK1AC	I129		8.50E-02 +- 1.5E-01	U	pCi/L	98%	2.86E-01	1.00E+00	
B30704										
	M54XC1AA	I129		-7.10E-02 +- 1.3E-01	U	pCi/L	85%	2.23E-01	1.00E+00	
B30705										
	M54XD1AA	I129		8.21E-01 +- 2.6E-01		pCi/L	92%	2.79E-01	1.00E+00	
B30717										
	M534V1AC	I129		8.38E-01 +- 2.6E-01		pCi/L	92%	2.40E-01	1.00E+00	
B30719										
	M534W1AC	I129		9.25E-01 +- 4.8E-01		pCi/L	86%	3.35E-01	1.00E+00	

TestAmerica Inc RPD - Relative Percent Difference.
 rptTALRchSaSum U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan
 mary2 V5.3.6.7 software.
 A2002

Sample Results Summary

Date: 27-Feb-15

TestAmerica Inc TARL

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

Report No. : 64841

SDG No: W07065

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
5055037 I129LL_SEP_LEPS_GS									
B2YXL6									
	M531T2AA	I129	4.05E-01 +- 1.7E-01	U	pCi/L	71%	3.33E-01	1.00E+00	
B306P1									
	M54R72AC	I129	-1.09E-01 +- 2.0E-01	U	pCi/L	53%	3.26E-01	1.00E+00	
B306V0									
	M54PW2AC	I129	-1.73E-02 +- 1.1E-01	U	pCi/L	69%	1.93E-01	1.00E+00	
5036031 9310_ALPHABETA_GPC									
B30051									
	M52611AC	Alpha	2.62E+00 +- 3.1E+00	U	pCi/L	100%	5.14E+00	3.00E+00	
B30051 DUP									
	M52611AE	Alpha	2.32E+00 +- 3.9E+00	U	pCi/L	100%	6.71E+00	3.00E+00	12.3
B301B3									
	M52621AC	Alpha	1.51E+00 +- 1.6E+00	U	pCi/L	100%	2.57E+00	3.00E+00	
B30818									
	M54XE1AA	Alpha	2.28E+00 +- 1.3E+00		pCi/L	100%	1.64E+00	3.00E+00	
B30971									
	M54XF1AA	Alpha	6.37E-01 +- 1.2E+00	U	pCi/L	100%	2.10E+00	3.00E+00	
5036032 9310_ALPHABETA_GPC									
B30051									
	M52611AD	Beta	6.55E+00 +- 3.4E+00		pCi/L	100%	5.54E+00	4.00E+00	
B30051 DUP									
	M52611AF	Beta	8.78E+00 +- 3.5E+00		pCi/L	100%	5.33E+00	4.00E+00	29.1
B301B3									
	M52621AD	Beta	2.71E+01 +- 3.9E+00		pCi/L	100%	2.19E+00	4.00E+00	
B30818									
	M54XE1AC	Beta	5.74E+00 +- 1.6E+00		pCi/L	100%	2.20E+00	4.00E+00	
B30971									
	M54XF1AC	Beta	5.24E+00 +- 1.5E+00		pCi/L	100%	2.03E+00	4.00E+00	
5036036 TC99_ETVDSK_LSC									
B2YXL6									
	M531T1AC	Tc-99	2.06E+02 +- 9.9E+00		pCi/L	100%	9.30E+00	1.50E+01	
B301B3									
	M52621AH	Tc-99	8.74E+01 +- 6.9E+00		pCi/L	100%	9.55E+00	1.50E+01	
B301B3 DUP									
	M52621AN	Tc-99	7.66E+01 +- 6.6E+00		pCi/L	100%	9.55E+00	1.50E+01	13.1
B306P1									
	M54R71AD	Tc-99	4.03E+02 +- 1.5E+01		pCi/L	100%	9.56E+00	1.50E+01	
B306T3									
	M54XG1AD	Tc-99	-2.21E-01 +- 4.2E+00	U	pCi/L	100%	9.45E+00	1.50E+01	

TestAmerica Inc RPD - Relative Percent Difference.
 rptTALRchSaSummary2 V5.3.6.7 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 A2002

Sample Results Summary

Date: 27-Feb-15

TestAmerica Inc TARL

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

Report No. : 64841

SDG No: W07065

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
5036036	TC99_ETVDSK_LSC								
	B306T4								
	M54XH1AD	Tc-99	4.61E+00 +- 4.4E+00	U	pCi/L	100%	9.54E+00	1.50E+01	
	B306V0								
	M54PW1AE	Tc-99	6.87E+00 +- 4.4E+00	U	pCi/L	100%	9.39E+00	1.50E+01	
	B306V4								
	M54XJ1AD	Tc-99	2.47E+01 +- 5.0E+00		pCi/L	100%	9.49E+00	1.50E+01	
	B306W2								
	M54XK1AD	Tc-99	1.91E+02 +- 9.6E+00		pCi/L	100%	9.45E+00	1.50E+01	
	B30704								
	M54XC1AC	Tc-99	4.38E+00 +- 4.4E+00	U	pCi/L	100%	9.55E+00	1.50E+01	
	B30705								
	M54XD1AC	Tc-99	2.73E+02 +- 1.2E+01		pCi/L	100%	9.47E+00	1.50E+01	
	B30717								
	M534V1AD	Tc-99	9.45E+01 +- 7.0E+00		pCi/L	100%	9.39E+00	1.50E+01	
	B30719								
	M534W1AD	Tc-99	1.38E+02 +- 8.3E+00		pCi/L	100%	9.60E+00	1.50E+01	
5036037	906.0_H3_LSC								
	B30051								
	M52611AA	H-3	2.02E+03 +- 2.3E+02		pCi/L	100%	3.34E+02	4.00E+02	
	B30051 DUP								
	M52611AG	H-3	1.90E+03 +- 2.3E+02		pCi/L	100%	3.38E+02	4.00E+02	6.2
	B301B3								
	M52621AA	H-3	3.90E+04 +- 1.4E+03		pCi/L	100%	3.36E+02	4.00E+02	
	B306P1								
	M54R71AA	H-3	8.53E+03 +- 4.4E+02		pCi/L	100%	3.37E+02	4.00E+02	
	B306T3								
	M54XG1AA	H-3	2.30E+01 +- 1.5E+02	U	pCi/L	100%	3.40E+02	4.00E+02	
	B306T4								
	M54XH1AA	H-3	2.16E+03 +- 2.5E+02		pCi/L	100%	3.37E+02	4.00E+02	
	B306V0								
	M54PW1AA	H-3	3.11E+02 +- 1.6E+02	U	pCi/L	100%	3.37E+02	4.00E+02	
	B306V4								
	M54XJ1AA	H-3	2.11E+02 +- 1.6E+02	U	pCi/L	100%	3.37E+02	4.00E+02	
	B306W2								
	M54XK1AA	H-3	8.77E+02 +- 1.9E+02		pCi/L	100%	3.37E+02	4.00E+02	
	B30717								
	M534V1AA	H-3	9.01E+02 +- 1.9E+02		pCi/L	100%	3.38E+02	4.00E+02	
	B30719								
	M534W1AA	H-3	5.53E+02 +- 1.7E+02		pCi/L	100%	3.37E+02	4.00E+02	

TestAmerica Inc RPD - Relative Percent Difference.
 rptTALRchSaSummary2 V5.3.6.7 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 A2002

Sample Results Summary

Date: 27-Feb-15

TestAmerica Inc TARL

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

Report No. : 64841

SDG No: W07065

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
5036037	906.0_H3_LSC								
	B30724								
	M534X1AA	H-3	5.40E+04 +- 1.8E+03		pCi/L	100%	3.39E+02	4.00E+02	
5036038	UTOT_KPA								
	B2YXL6								
	M531T1AD	TOTAL-URANIUM	1.29E+00 +- 1.3E-01		ug/L		8.32E-02	1.44E-01	
	B2YXL6 DUP								
	M531T1AF	TOTAL-URANIUM	1.32E+00 +- 1.4E-01		ug/L		8.28E-02	1.44E-01	2.5
	B306P1								
	M54R71AE	TOTAL-URANIUM	1.12E+00 +- 1.2E-01		ug/L		8.32E-02	1.44E-01	
	B306T3								
	M54XG1AE	TOTAL-URANIUM	1.01E+00 +- 1.0E-01		ug/L		8.38E-02	1.44E-01	
	B306T4								
	M54XH1AE	TOTAL-URANIUM	1.03E+00 +- 1.1E-01		ug/L		8.32E-02	1.44E-01	
	B306V0								
	M54PW1AD	TOTAL-URANIUM	8.95E-01 +- 9.2E-02		ug/L		8.12E-02	1.44E-01	
	B306V4								
	M54XJ1AE	TOTAL-URANIUM	7.25E-01 +- 7.4E-02		ug/L		8.32E-02	1.44E-01	
	B306W2								
	M54XK1AE	TOTAL-URANIUM	9.07E-01 +- 9.3E-02		ug/L		8.28E-02	1.44E-01	
	B30704								
	M54XC1AD	TOTAL-URANIUM	0.00E+00 +- 0.0E+00	U	ug/L		8.35E-02	1.44E-01	
	B30705								
	M54XD1AD	TOTAL-URANIUM	1.35E+00 +- 1.4E-01		ug/L		8.22E-02	1.44E-01	
	B30717								
	M534V1AE	TOTAL-URANIUM	6.33E+01 +- 7.6E+00		ug/L		8.32E-02	1.44E-01	
	B30719								
	M534W1AE	TOTAL-URANIUM	1.13E+02 +- 1.4E+01		ug/L		8.35E-02	1.44E-01	
	B30724								
	M534X1AC	TOTAL-URANIUM	3.85E+01 +- 4.7E+00		ug/L		8.25E-02	1.44E-01	
No. of Results:		73							

QC Results Summary
TestAmerica Inc TARL

Date: 27-Feb-15

Ordered by Method, Batch No, QC Type,.

Report No. : 64841

SDG No.: W07065

Batch	Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
SRISO_SEP_PRECIP_GPC									
5036033	BLANK QC,								
	M540P1AA	STRONTIUM	2.24E-01 +- 3.2E-01	U	pCi/L	80%			6.48E-01
5036033	LCS,								
	M540P2AC	STRONTIUM	8.43E+00 +- 2.0E+00		pCi/L	93%	120%	0.2	3.09E-01
GAMMA_GS									
5036034	BLANK QC,								
	M540Q1AA	CO-60	-6.45E-01 +- 1.1E+00	U	pCi/L				1.81E+00
		CS-137	2.22E-01 +- 1.0E+00	U	pCi/L				1.94E+00
		EU-152	1.22E+00 +- 2.7E+00	U	pCi/L				4.76E+00
		EU-154	-7.88E-01 +- 3.1E+00	U	pCi/L				5.57E+00
		EU-155	4.82E-01 +- 1.5E+00	U	pCi/L				2.76E+00
5036034	LCS,								
	M540Q1AC	CO-60	3.27E+01 +- 5.3E+00		pCi/L		106%	0.1	1.29E+00
		CS-137	3.91E+01 +- 6.7E+00		pCi/L		96%	0.0	2.46E+00
		EU-152	5.09E+01 +- 9.7E+00		pCi/L		84%	-0.2	5.95E+00
I129LL_SEP_LEPS_GS									
5036035	BLANK QC,								
	M540R1AA	I129	2.54E-02 +- 1.2E-01	U	pCi/L	92%			2.37E-01
5036035	LCS,								
	M540R1AC	I129	8.15E+00 +- 1.3E+00		pCi/L	100%	77%	-0.2	4.05E-01
I129LL_SEP_LEPS_GS									
5055037	BLANK QC,								
	M58J91AA	I129	4.69E-02 +- 1.1E-01	U	pCi/L	74%			2.08E-01
5055037	LCS,								
	M58J91AC	I129	8.82E+00 +- 1.3E+00		pCi/L	73%	85%	-0.2	3.91E-01
9310_ALPHABETA_GPC									
5036031	BLANK QC,								
	M540L1AA	Alpha	-1.37E-01 +- 5.3E-01	U	pCi/L	100%			1.02E+00
5036031	LCS,								
	M540L1AC	Alpha	1.92E+01 +- 5.0E+00		pCi/L	100%	85%	-0.2	8.66E-01
9310_ALPHABETA_GPC									
5036032	BLANK QC,								
	M540N1AA	Beta	1.08E+00 +- 9.2E-01	U	pCi/L	100%			1.59E+00
5036032	LCS,								
	M540N1AC	Beta	2.35E+01 +- 3.4E+00		pCi/L	100%	104%	0.0	1.67E+00
TC99_ETVDSK_LSC									
5036036	MATRIX SPIKE, B301B3								
	M52621AM	Tc-99	3.35E+03 +- 8.3E+01		pCi/L	100%	93%	-0.1	9.58E+00
5036036	BLANK QC,								
	M54021AA	Tc-99	4.44E+00 +- 2.8E+00	U	pCi/L	100%			5.87E+00
5036036	LCS,								
	M54021AC	Tc-99	2.77E+02 +- 9.8E+00		pCi/L	100%	82%	-0.2	5.94E+00

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

rptSTLRchQcSummary V5.3.6.7 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
A2002

QC Results Summary
TestAmerica Inc TARL

Date: 27-Feb-15

Ordered by Method, Batch No, QC Type,.

Report No. : 64841

SDG No.: W07065

Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
906.0_H3_LSC									
5036037	BLANK QC,								
	M54061AA	H-3	-2.10E+01 +- 1.5E+02	U	pCi/L	100%			3.64E+02
5036037	LCS,								
	M54061AC	H-3	2.76E+03 +- 2.6E+02		pCi/L	100%	104%	0.0	3.65E+02
UTOT_KPA									
5036038	MATRIX SPIKE, B2YXL6								
	M531T1AE	TOTAL-URANIUM	3.62E+01 +- 4.6E+00		ug/L		105%	0.0	8.00E-02
5036038	BLANK QC,								
	M54081AA	TOTAL-URANIUM	0.00E+00 +- 0.0E+00	U	ug/L				8.12E-02
5036038	LCS,								
	M54081AD	TOTAL-URANIUM	3.61E+00 +- 3.7E-01		ug/L		99%	0.0	7.91E-02
	M54081AC	TOTAL-URANIUM	3.63E+01 +- 4.4E+00		ug/L		103%	0.0	8.28E-02

No. of Results: 27

TestAmerica Inc Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchQcSummary V5.3.6.7 U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 A2002

FORM I

Date: 27-Feb-15

SAMPLE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A300411-1
 Client Sample ID: B2YXL6
 SDG: W07065
 Report No.: 64841
 COC No.: I15-009-015
 Matrix: WATER
 Collection Date: 1/29/2015 11:37:00 AM
 Received Date: 1/29/2015 2:50:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036036	TC99_ETVDSK_LSC											
Tc-99	2.06E+02		8.5E+00	9.9E+00	9.30E+00 pCi/L	4.46E+00	100%	(22.1)	2/7/15 09:59 p	0.1274	L	LSC8
Work Order: M631T1AC Report DB ID: 9M531T10												
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	1.29E+00		1.3E-01	8.32E-02 ug/L	2.94E-02	1.44E-01	(15.5)	(19.5)	2/18/15 02:01 p	25.2	ML	KPAW3
Work Order: M631T1AD Report DB ID: 9M531T10												
Batch: 5055037	I129LL_SEP_LEPS_GS											
I129	4.05E-01	U	1.7E-01	1.7E-01	3.33E-01 pCi/L	1.19E-01	71%	(1.2)	2/26/15 12:19 p	3.8667	L	LEP4\$1
Work Order: M631T2AA Report DB ID: 9M531T20												

No. of Results: 3 Comments:

TestAmerica Inc MDC|MDA.Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTL.RchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

Date: 27-Feb-15

FORM I
SAMPLE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A270438-1
 Client Sample ID: B30051
 SDG: W07065
 Report No.: 64841
 COC No.: S15-001-232
 Matrix: WATER
 Collection Date: 1/27/2015 11:17:00 AM
 Received Date: 1/27/2015 2:35:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036031	9310_ALPHABETA_GPC											
Alpha	2.62E+00	U	3.0E+00	3.1E+00	5.14E+00	pCi/L	100%	0.51	2/9/15 12:26 p		0.0377	GPC21A
								(1.7)			L	
Batch: 5036032	9310_ALPHABETA_GPC											
Beta	6.55E+00		3.3E+00	3.4E+00	5.54E+00	pCi/L	100%	(1.2)	2/9/15 07:54 p		0.0743	GPC28C
								(3.9)			L	
Batch: 5036037	906.0_H3_LSC											
H-3	2.02E+03		2.1E+02	2.3E+02	3.34E+02	pCi/L	100%	(6.)	2/24/15 10:16 a		0.00502	LSC4
								(17.7)			L	

No. of Results: 3 Comments:

TestAmerica Inc MDCIMDA,I,c - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 AZ002

FORM I

SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A270438-2
 Client Sample ID: B301B3

SDG: W07065
 Report No.: 64841
 COC No.: S15-001-300
 Matrix: WATER

Collection Date: 1/27/2015 8:35:00 AM
 Received Date: 1/27/2015 2:35:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036031	9310_ALPHABETA_GPC						Report DB ID: 9M526210					
Alpha	1.51E+00	U	1.5E+00	1.6E+00	2.57E+00 pCi/L	1.17E+00	100%	0.59	2/9/15 12:26 p		0.0977	GPC21C
							3.00E+00	(1.9)			L	
Batch: 5036032	9310_ALPHABETA_GPC						Report DB ID: 9M526210					
Beta	2.71E+01		2.1E+00	3.9E+00	2.19E+00 pCi/L	1.06E+00	100%	(12.4)	2/9/15 07:54 p		0.1937	GPC26A
							4.00E+00	(13.8)			L	
Batch: 5036033	SRISO_SEP_PRECIP_GPC						Report DB ID: 9M526210					
STRONTIUM	2.12E-01	U	2.6E-01	2.6E-01	5.27E-01 pCi/L	2.50E-01	79%	0.4	2/9/15 07:39 p		1.0105	GPC31A
							2.00E+00	(1.6)			L	
Batch: 5036034	GAMMA_GS						Report DB ID: 9M526210					
CO-60	-1.04E-01	U	1.1E+00	1.1E+00	2.14E+00 pCi/L		2.50E+01	-0.05	2/20/15 08:40 a		2.5164	GER16\$1
								-0.18			L	
CS-137	1.11E+00	U	1.0E+00	1.0E+00	2.05E+00 pCi/L		1.50E+01	0.54	2/20/15 08:40 a		2.5164	GER16\$1
								(2.2)			L	
EU-152	9.60E-01	U	2.2E+00	2.2E+00	4.02E+00 pCi/L		5.00E+01	0.24	2/20/15 08:40 a		2.5164	GER16\$1
								0.88			L	
EU-154	-3.59E-01	U	3.6E+00	3.6E+00	6.70E+00 pCi/L		5.00E+01	-0.05	2/20/15 08:40 a		2.5164	GER16\$1
								-0.2			L	
EU-155	1.12E+00	U	1.3E+00	1.3E+00	2.47E+00 pCi/L		5.00E+01	0.45	2/20/15 08:40 a		2.5164	GER16\$1
								(1.7)			L	
Batch: 5036035	I129LL_SEP_LEPS_GS						Report DB ID: 9M526210					

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rpt|STLRch|Sample U Qual - Analyzed for but not detected above limiting criteria, Mdc|Mda|Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I

Date: 27-Feb-15

SAMPLE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A270438-2
 Client Sample ID: B301B3
 SDG: W07065
 Report No.: 64841
 COC No.: S15-001-300
 Matrix: WATER
 Collection Date: 1/27/2015 8:35:00 AM
 Received Date: 1/27/2015 2:35:00 PM

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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
1129	2.03E-01	U	1.7E-01	1.7E-01	3.42E-01	pCi/L	93%	0.59	2/24/15 09:07 a	3.843	L	LEP4\$1
Batch: 5036036 TC99_ETVDSK_LSC Work Order: M52621AH Report DB ID: 9M526210												
Tc-99	8.74E+01		6.4E+00	6.9E+00	9.55E+00	pCi/L	100%	(9.1)	2/7/15 06:52 p	0.1256	L	LSC8
Batch: 5036037 906.0_H3_LSC Work Order: M52621AA Report DB ID: 9M526210												
H-3	3.90E+04		6.9E+02	1.4E+03	3.36E+02	pCi/L	100%	(116.1)	2/24/15 12:57 p	0.00503	L	LSC4

No. of Results: 11 Comments:

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rpt|STL|Rch|Sample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mdar/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

Date: 27-Feb-15

FORM I
SAMPLE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040412-1
 Client Sample ID: B306P1
 SDG: W07065
 Report No.: 64841
 COC No.: 115-014-041
 Matrix: WATER
 Collection Date: 2/3/2015 2:23:00 PM
 Received Date: 2/4/2015 8:50:00 AM

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036036	TC99_ETVDSK_LSC											
Tc-99	4.03E+02		1.2E+01	1.5E+01	9.56E+00 pCi/L	4.58E+00	100%	(42.1)	2/8/15 02:08 a		0.1265	LSC8
							1.50E+01	(54.6)			L	
Batch: 5036037	906.0_H3_LSC											
H-3	8.53E+03		3.5E+02	4.4E+02	3.37E+02 pCi/L	1.61E+02	100%	(25.3)	2/24/15 07:52 p		0.00504	LSC4
							4.00E+02	(38.4)			L	
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	1.12E+00		1.2E-01	1.2E-01	8.32E-02 ug/L	2.94E-02	(13.5)	(19.3)	2/18/15 02:17 p		25.2	KPAW3
							1.44E-01				ML	
Batch: 5055037	I129LL_SEP_LEPS_GS											
I129	-1.09E-01	U	2.0E-01	2.0E-01	3.26E-01 pCi/L	8.72E-02	53%	-0.33	2/26/15 05:07 p		3.7671	LEP4\$1
							1.00E+00	-(1.1)			L	

No. of Results: 4 Comments:

TestAmerica Inc MDC|MDA.Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rpt\$TLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mdar/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040428-1
 Client Sample ID: B306T3
 SDG: W07065
 Report No.: 64841
 COC No.: 115-014-051
 Matrix: WATER
 Collection Date: 2/4/2015 9:51:00 AM
 Received Date: 2/4/2015 2:25:00 PM
 Ordered by: Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036035 1129LL_SEP_LEPS_GS												
5036035	1129LL_SEP_LEPS_GS	U	1.2E-01	1.2E-01	2.18E-01	pCi/L	88%	-0.12	2/24/15 04:23 p	3.8169	L	LEP5\$1
Work Order: M54XG1AC Report DB ID: 9M54XG10												
9.73E-02 1.00E+00 -0.44												
Batch: 5036036 TC99_ETVDSK_LSC												
5036036	TC99_ETVDSK_LSC	U	3.9E+00	4.2E+00	9.45E+00	pCi/L	100%	-0.02	2/8/15 05:14 a	0.1274	L	LSC8
Work Order: M54XG1AD Report DB ID: 9M54XG10												
4.53E+00 1.50E+01 -0.11												
Batch: 5036037 906.0_H3_LSC												
5036037	906.0_H3_LSC	U	1.4E+02	1.5E+02	3.40E+02	pCi/L	100%	0.07	2/24/15 09:15 p	0.00502	L	LSC4
Work Order: M54XG1AA Report DB ID: 9M54XG10												
1.62E+02 4.00E+02 0.3												
Batch: 5036038 UTOT_KPA												
5036038	UTOT_KPA	U	1.0E-01	1.0E-01	8.38E-02	ug/L	(12.1)	(19.5)	2/18/15 02:34 p	25.0	ML	KPAW3
Work Order: M54XG1AE Report DB ID: 9M54XG10												
TOTAL-URANIUM 1.01E+00 2.97E-02 1.44E-01												

No. of Results: 4 Comments:

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTL.RchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040428-2
 Client Sample ID: B306T4
 SDG: W07065
 Report No.: 64841
 COC No.: 115-014-053
 Matrix: WATER
 Collection Date: 2/4/2015 9:51:00 AM
 Received Date: 2/4/2015 2:25:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036035	I129LL_SEP_LEPS_GS											
1129	1.77E-02	U	1.5E-01	1.5E-01	2.87E-01	pCi/L	89%	0.06	2/24/15 06:27 p		3.7654	LEP4\$1
							1.00E+00	0.23			L	
Batch: 5036036	TC99_ETVDSK_LSC											
Tc-99	4.61E+00	U	4.1E+00	4.4E+00	9.54E+00	pCi/L	100%	0.48	2/8/15 07:18 a		0.1258	LSC8
							1.50E+01	(2.1)			L	
Batch: 5036037	906.0_H3_LSC											
H-3	2.16E+03		2.1E+02	2.5E+02	3.37E+02	pCi/L	100%	(6.4)	2/24/15 10:38 p		0.00504	LSC4
							4.00E+02	(17.2)			L	
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	1.03E+00					ug/L			2/18/15 02:36 p		25.2	KPAW3
							1.44E-01	(19.5)			ML	

No. of Results: 4 Comments:

TestAmerica Inc MDC|MDA.Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mdar/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B030458-1
 Client Sample ID: B306V0
 SDG: W07065
 Report No.: 64841
 COC No.: 115-014-055
 Matrix: WATER
 Collection Date: 2/3/2015 9:48:00 AM
 Received Date: 2/3/2015 2:00:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036036	TC99_ETVDSK_LSC											
Tc-99	6.87E+00	U	4.1E+00	4.4E+00	9.39E+00 pCi/L	4.50E+00	100%	0.73	2/8/15 01:06 a	0.1284	L	LSC8
								(3.1)				
Batch: 5036037	906.0_H3_LSC											
H-3	3.11E+02	U	1.5E+02	1.6E+02	3.37E+02 pCi/L	1.60E+02	100%	0.92	2/24/15 06:29 p	0.00503	L	LSC4
								(3.8)				
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	8.95E-01		9.2E-02	9.2E-02	8.12E-02 ug/L	2.87E-02	(11.)	(11.)	2/18/15 02:15 p	25.8	ML	KPAW3
								(19.5)				
Batch: 5055037	1129LL_SEP_LEPS_GS											
1129	-1.73E-02	U	1.1E-01	1.1E-01	1.93E-01 pCi/L	6.71E-02	69%	-0.09	2/26/15 12:19 p	3.8857	L	LEP5\$1
								-0.32				

No. of Results: 4 Comments:

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rpt\$TLRch\$Sample U Qual - Analyzed for but not detected above limiting criteria, Mdo/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040428-3
 Client Sample ID: B306V4
 SDG: W07065
 Report No.: 64841
 COC No.: 115-014-057
 Matrix: WATER
 Collection Date: 2/4/2015 10:52:00 AM
 Received Date: 2/4/2015 2:25:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036035	1129LL_SEP_LEPS_GS											
1129	-2.43E-03	U	1.5E-01	1.5E-01	2.87E-01	pCi/L	79%	-0.01	2/24/15 06:28 p		3.742	LEP5\$1
							1.14E-01	1.00E+00			L	
Batch: 5036036	TC99_ETVDSK_LSC											
Tc-99	2.47E+01		4.7E+00	5.0E+00	9.49E+00	pCi/L	100%	(2.6)	2/8/15 08:20 a		0.1273	LSC8
							4.55E+00	1.50E+01			L	
Batch: 5036037	906.0_H3_LSC											
H-3	2.11E+02	U	1.5E+02	1.6E+02	3.37E+02	pCi/L	100%	0.63	2/25/15 12:01 a		0.00502	LSC4
							1.61E+02	4.00E+02			L	
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	7.25E-01		7.4E-02	7.4E-02	8.32E-02	ug/L	(8.7)	(19.5)	2/18/15 02:38 p		25.2	KPAW3
							2.94E-02	1.44E-01			ML	

No. of Results: 4 Comments:

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTL.RchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040428-4
 Client Sample ID: B306W2
 SDG: W07065
 Report No.: 64841
 COC No.: 115-014-061
 Matrix: WATER
 Collection Date: 2/4/2015 1:10:00 PM
 Received Date: 2/4/2015 2:25:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036035	1129L_SEP_LEPS_GS											
1129	8.50E-02	U	1.5E-01	1.5E-01	2.86E-01	pCi/L	98%	0.3	2/24/15 08:43 p		3.8482	LEP4\$1
							1.00E+00	(1.2)			L	
Batch: 5036036	TC99_ETVDSK_LSC											
Tc-99	1.91E+02		8.4E+00	9.6E+00	9.45E+00	pCi/L	100%	(20.2)	2/8/15 09:22 a		0.1275	LSC8
							1.50E+01	(39.9)			L	
Batch: 5036037	906.0_H3_LSC											
H-3	8.77E+02		1.7E+02	1.9E+02	3.37E+02	pCi/L	100%	(2.6)	2/25/15 02:47 a		0.00501	LSC4
							4.00E+02	(9.4)			L	
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	9.07E-01		9.3E-02	9.3E-02	8.28E-02	ug/L		(10.9)	2/18/15 02:40 p		25.3	KPAW3
							1.44E-01	(19.5)			ML	

No. of Results: 4
 Comments:

TestAmerica Inc MDC\MDA\Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rpt\STLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc\Mda\Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040426-1
 Client Sample ID: B30704
 SDG: W07065
 Report No.: 64841
 COC No.: 115-015-014
 Matrix: WATER
 Collection Date: 2/4/2015 7:00:00 AM
 Received Date: 2/4/2015 2:25:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036035	Work Order: M54XC1AA Report DB ID: 9M54XC10											
I129	1129LL_SEP_LEPS_GS	U	1.3E-01	1.3E-01	2.23E-01	pCi/L	85%	-0.32	2/24/15 02:23 p	3.8644	L	LEP5\$1
	-7.10E-02						1.00E+00	-(1.1)				
Batch: 5036036	Work Order: M54XC1AC Report DB ID: 9M54XC10											
Tc-99	TC99_ETVDSK_LSC	U	4.1E+00	4.4E+00	9.55E+00	pCi/L	100%	0.46	2/8/15 03:10 a	0.1261	L	LSC8
	4.38E+00						1.50E+01	(2.)				
Batch: 5036038	Work Order: M54XC1AD Report DB ID: 9M54XC10											
TOTAL-URANIUM	UTOT_KPA	U	0.0E+00	8.35E-02	8.35E-02	ug/L	0.	N/A	2/18/15 02:19 p	25.1	ML	KPAW3
	0.00E+00						1.44E-01					

No. of Results: 3 Comments:

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mdar/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lab-Sample No.: J5B040426-2
 Client Sample ID: B30705
 SDG: W07065
 Report No.: 64841
 COC No.: 115-015-015
 Matrix: WATER
 Collection Date: 2/4/2015 8:21:00 AM
 Received Date: 2/4/2015 2:25:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDI,(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036035	Work Order: M54XD1AA Report DB ID: 9M54XD10											
1129LL_SEP_LEPS_GS												
8.21E-01	2.6E-01	2.6E-01	2.6E-01	2.6E-01	2.79E-01	pCi/L	92%	(2.9)	2/24/15 04:22 p		3.8233	LEP4\$1
							1.00E+00	(6.2)			L	
Batch: 5036036	Work Order: M54XD1AC Report DB ID: 9M54XD10											
TC99_ETVDSK_LSC												
2.73E+02	9.7E+00	9.7E+00	1.2E+01	9.47E+00	9.47E+00	pCi/L	100%	(28.8)	2/8/15 04:12 a		0.1266	LSC8
							1.50E+01	(47.)			L	
Batch: 5036038	Work Order: M54XD1AD Report DB ID: 9M54XD10											
TOTAL-URANIUM												
1.35E+00	1.4E-01	1.4E-01	8.22E-02	8.22E-02	8.22E-02	ug/L	(16.4)	(19.5)	2/18/15 02:32 p		25.5	KPAW3
							2.91E-02	1.44E-01			ML	

No. of Results: 3 Comments:

TestAmerica Inc MDC|MDA|.J.c - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTL.RchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A300425-1
 Client Sample ID: B30717
 SDG: W07065
 Report No.: 64841
 COC No.: 115-015-020
 Matrix: WATER
 Collection Date: 1/30/2015 9:26:00 AM
 Received Date: 1/30/2015 2:30:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDI(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036035	1129LL_SEP_LEPS_GS											
1129	8.38E-01		2.6E-01	2.6E-01	2.40E-01	pCi/L	92%	(3.5)	2/24/15 10:55 a		3.8271	LEP5\$1
							1.12E-01	(6.4)			L	
Batch: 5036036	TC99_ETVDSK_LSC											
Tc-99	9.45E+01		6.5E+00	7.0E+00	9.39E+00	pCi/L	100%	(10.1)	2/7/15 11:01 p		0.1275	LSC8
							4.50E+00	(26.9)			L	
Batch: 5036037	906.0_H3_LSC											
H-3	9.01E+02		1.7E+02	1.9E+02	3.38E+02	pCi/L	100%	(2.7)	2/24/15 02:20 p		0.00503	LSC4
							1.61E+02	(9.6)			L	
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	6.33E+01		7.6E+00	7.6E+00	8.32E-02	ug/L		(761.2)	2/18/15 02:08 p		25.2	KPAW3
							2.94E-02	(16.6)			ML	

No. of Results: 4 Comments:

TestAmerica Inc MDC|MDA,I,c - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTL.RchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A300425-2
 Client Sample ID: B30719
 SDG: W07065
 Report No.: 64841
 COC No.: 115-015-021
 Matrix: WATER
 Collection Date: 1/30/2015 8:14:00 AM
 Received Date: 1/30/2015 2:30:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RI), Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036035	1129LL_SEP_LEPS_GS						Report DB ID: 9M534W10				
1129	9.25E-01		4.8E-01	4.8E-01	3.35E-01	pCi/L	86% (2.8)	2/24/15 12:38 p		3.8777	LEP4\$1
						1.45E-01	1.00E+00 (3.8)			L	
Batch: 5036036	TC99_ETVDSK_LSC						Report DB ID: 9M534W10				
Tc-99	1.38E+02		7.5E+00	8.3E+00	9.60E+00	pCi/L	100% (14.4)	2/8/15 12:04 a		0.125	LSC8
						4.60E+00	1.50E+01 (33.3)			L	
Batch: 5036037	906.0_H3_LSC						Report DB ID: 9M534W10				
H-3	5.53E+02		1.6E+02	1.7E+02	3.37E+02	pCi/L	100% (1.6)	2/24/15 03:43 p		0.00504	LSC4
						1.60E+02	4.00E+02 (6.4)			L	
Batch: 5036038	UTOT_KPA						Report DB ID: 9M534W10				
TOTAL-URANIUM	1.13E+02		1.4E+01	1.4E+01	8.35E-02	ug/L	(1354.)	2/18/15 02:10 p		25.1	KPAW3
						2.95E-02	1.44E-01 (16.6)			ML	

No. of Results: 4 Comments:

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

Date: 27-Feb-15

FORM I
SAMPLE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A300425-3
 Client Sample ID: B30724
 SDG: W07065
 Report No.: 64841
 COC No.: 115-015-024
 Matrix: WATER
 Collection Date: 1/30/2015 11:34:00 AM
 Received Date: 1/30/2015 2:30:00 PM
 Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036037	906.0_H3_LSC											
H-3	5.40E+04		8.1E+02	1.8E+03	3.39E+02 pCi/L	1.62E+02	100%	(159.1)	2/24/15 05:06 p	0.005	L	LSC4
Work Order: M534X1AA Report DB ID: 9M534X10												
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	3.85E+01		4.7E+00	8.25E-02 ug/L	2.92E-02	1.44E-01	(466.8)	(16.5)	2/18/15 02:12 p	25.4	ML	KPAW3
Work Order: M534X1AC Report DB ID: 9M534X10												

No. of Results: 2 Comments:

TestAmerica Inc MDC|MDA.Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I

Date: 27-Feb-15

SAMPLE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040427-1
 Client Sample ID: B30818

SDG: W07065
 Report No.: 64841
 COC No.: S15-002-186
 Matrix: WATER

Collection Date: 2/4/2015 9:51:00 AM
 Received Date: 2/4/2015 2:25:00 PM

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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
5036031	9310_ALPHABETA_GPC		1.2E+00	1.3E+00	M54XE1AA							
Alpha	2.28E+00		1.2E+00	1.3E+00	1.64E+00 pCi/L	7.21E-01	100%	(1.4)	2/9/15 12:26 p		0.1125	GPC21D
Work Order: M54XE1AA Report DB ID: 9M54XE10 3.00E+00 (3.5)												
5036032	9310_ALPHABETA_GPC		1.4E+00	1.6E+00	M54XE1AC							
Beta	5.74E+00		1.4E+00	1.6E+00	2.20E+00 pCi/L	1.06E+00	100%	(2.6)	2/9/15 07:54 p		0.2002	GPC26B
Work Order: M54XE1AC Report DB ID: 9M54XE10 4.00E+00 (7.2)												

No. of Results: 2 Comments:

TestAmerica Inc MDCjMDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM I
SAMPLE RESULTS

Date: 27-Feb-15

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5B040427-2
 Client Sample ID: B30971
 SDG: W07065
 Report No.: 64841
 COC No.: S15-002-237
 Matrix: WATER
 Collection Date: 2/4/2015 9:51:00 AM
 Received Date: 2/4/2015 2:25:00 PM

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(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: 5036031	9310_ALPHABETA_GPC											
Alpha	6.37E-01	U	1.2E+00	1.2E+00	2.10E+00 pCi/L	9.51E-01	100%	0.3	2/9/15 12:26 p		0.1034	GPC22A
							3.00E+00	(1.1)			L	
Batch: 5036032	9310_ALPHABETA_GPC											
Beta	5.24E+00		1.3E+00	1.5E+00	2.03E+00 pCi/L	9.77E-01	100%	(2.6)	2/9/15 07:54 p		0.2001	GPC26C
							4.00E+00	(7.)			L	

No. of Results: 2 Comments:

TestAmerica Inc MDC|MDA,I.c - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLResSample U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

FORM II Date: 27-Feb-15

DUPLICATE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A300411-1
 Client Sample ID: B2YXL6 DUP
 SDG: W07065
 Report No.: 64841
 COC No.: 115-009-015
 Matrix: WATER
 Collection Date: 1/29/2015 11:37:00 AM
 Received Date: 1/29/2015 2:50:00 PM

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036038	UTOT_KPA											
TOTAL-URANIUM	1.32E+00			1.4E-01	8.28E-02	ug/L		(16.)	2/18/15 02:06 p		25.3	KPAW3
	1.29E+00					1.44E-01		(19.5)			ML	

No. of Results: 1 Comments:

TestAmerica Inc RPD - Relative Percent Difference.
 rptSTLRchDupV5. MDC\MDA_Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 3.6.7 A2002

FORM II

Date: 27-Feb-15

DUPLICATE RESULTS

Lab Name: TestAmerica Inc SDG: W07065 Collection Date: 1/27/2015 11:17:00 AM
 Lot-Sample No.: J5A270438-1 Report No.: 64841 Received Date: 1/27/2015 2:35:00 PM
 Client Sample ID: B30051 DUP COC No.: S15-001-232 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036031	9310_ALPHABETA_GPC											
Alpha	2.32E+00	U	3.8E+00	3.9E+00	6.71E+00	pCi/L	100%	0.35	Orig Sa DB ID: 9M526110 2/9/15 12:26 p	0.0371	L	GPC21B
	2.62E+00	U	RPD 12.3			3.00E+00		(1.2)				
Batch: 5036032	9310_ALPHABETA_GPC											
Beta	8.78E+00		3.3E+00	3.5E+00	5.33E+00	pCi/L	100%	(1.6)	Orig Sa DB ID: 9M526110 2/9/15 07:54 p	0.0743	L	GPC28D
	6.55E+00		RPD 29.1			4.00E+00		(5.1)				
Batch: 5036037	906.0_H3_LSC											
H-3	1.90E+03		2.0E+02	2.3E+02	3.38E+02	pCi/L	100%	(5.6)	Orig Sa DB ID: 9M526110 2/24/15 11:34 a	0.00502	L	LSC4
	2.02E+03		RPD 6.2			4.00E+02		(16.9)				

No. of Results: 3 Comments:

TestAmerica Inc RPD - Relative Percent Difference.
 rptSTLRchDupV5. MDC\MDA.Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 3.6.7 A2002 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: 27-Feb-15

DUPLICATE RESULTS

Lab Name: TestAmerica Inc SDG: W07065 Collection Date: 1/27/2015 8:35:00 AM
 Lot-Sample No.: J5A270438-2 Report No.: 64841 Received Date: 1/27/2015 2:35:00 PM
 Client Sample ID: B301B3 DUP COC No.: S15-001-300 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036033	Work Order: M52621AJ Report DB ID: M52621JR Orig Sa DB ID: 9M526210											
STRONTIUM	SRISO_SEP_PRECIP_GPC	U	2.0E-01	2.1E-01	3.98E-01	pCi/L	97%	0.57	2/9/15 07:39 p	1.0091	L	GPC31B
		U	RPD 6.0	RPD 6.0		2.00E+00		(2.2)				

Batch:	5036034	Work Order: M52621AK Report DB ID: M52621KR										
CO-60	GAMMA_GS	U	1.0E+00	1.0E+00	2.01E+00	pCi/L		0.06	2/20/15 12:06 p	2.5164	L	GER17\$1
		U	RPD 3853.1	RPD 3853.1		2.50E+01		0.23				
CS-137		U	1.2E+00	1.2E+00	1.90E+00	pCi/L		0.27	2/20/15 12:06 p	2.5164	L	GER17\$1
		U	RPD 72.9	RPD 72.9		1.50E+01		0.87				
EU-152		U	2.5E+00	2.5E+00	4.19E+00	pCi/L		-0.51	2/20/15 12:06 p	2.5164	L	GER17\$1
		U	RPD -521.5	RPD -521.5		5.00E+01		-(1.7)				
EU-154		U	2.9E+00	2.9E+00	5.49E+00	pCi/L		-0.09	2/20/15 12:06 p	2.5164	L	GER17\$1
		U	RPD -36.4	RPD -36.4		5.00E+01		-0.35				
EU-155		U	1.6E+00	1.6E+00	2.56E+00	pCi/L		-0.78	2/20/15 12:06 p	2.5164	L	GER17\$1
		U	RPD -707.1	RPD -707.1		5.00E+01		-(2.5)				

Batch:	5036035	Work Order: M52621AL Report DB ID: M52621LR										
I129	I129LL_SEP_LEPS_GS	U	1.7E-01	1.7E-01	3.54E-01	pCi/L	83%	0.67	2/24/15 09:08 a	3.8549	L	LEP5\$1
		U	RPD 15.9	RPD 15.9		1.00E+00		(2.9)				

Batch:	5036036	Work Order: M52621AN Report DB ID: M52621NR										
Tc-99	TC99_ETVDSK_LSC	U	6.1E+00	6.6E+00	9.55E+00	pCi/L	100%	(8.)	2/7/15 08:57 p	0.1256	L	LSC8
		U	RPD 13.1	RPD 13.1		1.50E+01		(23.2)				

TestAmerica Inc RPD - Relative Percent Difference.
 rptSTLRchDupV5. MDC\MDA.Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 3.6.7 A2002 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: 27-Feb-15

DUPLICATE RESULTS

Lab Name: TestAmerica Inc
 Lot-Sample No.: J5A270438-2
 Client Sample ID: B301B3 DUP
 SDG: W07065
 Report No.: 64841
 COC No.: S15-001-300
 Collection Date: 1/27/2015 8:35:00 AM
 Received Date: 1/27/2015 2:35:00 PM
 Matrix: WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
-----------	---------------------	------	-----------------------	-----------------------	--------------------	-------------------	-------	--------------------------	------------------------	------------------	-----------------	---------------------

No. of Results: 8 Comments:

TestAmerica Inc RPD - Relative Percent Difference.
 rptSTLRchDupV5. MDC|MDA, Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 3.6.7 A2002

Date: 27-Feb-15

FORM II
BLANK RESULTS

Lab Name: TestAmerica Inc SDG: W07065 Report No.: 64841
Matrix: WATER

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5036037												
906.0_H3_LSC Work Order: M54061AA Report DB ID: M54061AB												
H-3	-2.10E+01	U	1.4E+02	1.5E+02	3.64E+02	pCi/L	100%	-0.06	2/25/15 04:11 a	0.00502	L	LSC4
Batch: 5036034												
GAMMA_GS Work Order: M540Q1AA Report DB ID: M540Q1AB												
CO-60	-6.45E-01	U	1.1E+00	1.1E+00	1.81E+00	pCi/L		-0.36	2/20/15 08:41 a	2.5948	L	GER18\$1
CS-137	2.22E-01	U	1.0E+00	1.0E+00	1.94E+00	pCi/L		-1.2)	2/20/15 08:41 a	2.5948	L	GER18\$1
EU-152	1.22E+00	U	2.7E+00	2.7E+00	4.76E+00	pCi/L		0.43	2/20/15 08:41 a	2.5948	L	GER18\$1
EU-154	-7.88E-01	U	3.1E+00	3.1E+00	5.57E+00	pCi/L		0.26	2/20/15 08:41 a	2.5948	L	GER18\$1
EU-155	4.82E-01	U	1.5E+00	1.5E+00	2.76E+00	pCi/L		0.92	2/20/15 08:41 a	2.5948	L	GER18\$1
Batch: 5036031												
9310_ALPHABETA_GPC Work Order: M540L1AA Report DB ID: M540L1AB												
Alpha	-1.37E-01	U	5.3E-01	5.3E-01	1.02E+00	pCi/L	100%	-0.13	2/9/15 12:26 p	0.2004	L	GPC22B
Batch: 5036032												
9310_ALPHABETA_GPC Work Order: M540N1AA Report DB ID: M540N1AB												
Beta	1.08E+00	U	9.1E-01	9.2E-01	1.59E+00	pCi/L	100%	0.68	2/9/15 07:54 p	0.2021	L	GPC26D
Batch: 5036035												
I129LL_SEP_LEPS_GS Work Order: M540R1AA Report DB ID: M540R1AB												
I129	2.54E-02	U	1.2E-01	1.2E-01	2.37E-01	pCi/L	92%	0.11	2/24/15 08:44 p	3.7411	L	LEP\$1

TestAmerica Inc MDCI(MDA)Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchBBlank U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.
 V5.3.6.7 A2002

Date: 27-Feb-15

**FORM II
BLANK RESULTS**

SDG: W07065
Report No.: 64841

Lab Name: TestAmerica Inc
Matrix: WATER

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5055037 I129LL_SEP_LEPS_GS Work Order: M58J91AA Report DB ID: M58J91AB												
1129	4.69E-02	U	1.1E-01	1.1E-01	2.08E-01	pCi/L	74%	0.23	2/26/15 05:08 p		3.8475	LEP5\$1
					7.71E-02	1.00E+00		0.84			L	
Batch: 5036033 SRISO_SEP_PRECIP_GPC Work Order: M540P1AA Report DB ID: M540P1AB												
STRONTIUM	2.24E-01	U	3.1E-01	3.2E-01	6.48E-01	pCi/L	80%	0.35	2/9/15 07:39 p		1.0009	GPC31C
					3.07E-01	2.00E+00		(1.4)			L	
Batch: 5036038 UTOT_KPA Work Order: M54081AA Report DB ID: M54081AB												
TOTAL-URANIUM	0.00E+00	U		0.0E+00	8.12E-02	ug/L		0.	2/18/15 02:42 p		25.8	KPAW3
					2.87E-02	1.40E-01		N/A			ML	
Batch: 5036036 TC99_ETVDSK_LSC Work Order: M54021AA Report DB ID: M54021AB												
Tc-99	4.44E+00	U	2.6E+00	2.8E+00	5.87E+00	pCi/L	100%	0.76	2/8/15 10:24 a		0.2028	LSC8
					2.82E+00	1.50E+01		(3.2)			L	

No. of Results: 13 Comments:

TestAmerica Inc MDCI(MDA)_Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchBlank U Qual - Analyzed for but not detected above limiting criteria, Mdc(Mda)/Mdl, Total Uncert, RDL, or not identified by gamma scan software.
 V5.3.6.7 A2002

Date: 27-Feb-15

FORM II
LCS RESULTS

Lab Name: TestAmerica Inc
Matrix: WATER

SDG: W07065
Report No.: 64841

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 5036037 906.0_H3_LSC													
Work Order: M54061AC Report DB ID: M54061CS													
H-3	2.76E+03		2.4E+02	2.6E+02	3.65E+02	pCi/L	100%	2.66E+03	8.0E+01	104%	2/25/15 05:34 a	0.00502	LSC4
Rec Limits: 70 130 0.0													
Batch: 5036034 GAMMA_GS													
Work Order: M540Q1AC Report DB ID: M540Q1CS													
CO-60	3.27E+01		5.3E+00	5.3E+00	1.29E+00	pCi/L		3.07E+01	2.6E-01	106%	2/20/15 08:42 a	2.5088	GER19\$1
Rec Limits: 70 130 0.1													
CS-137	3.91E+01		6.7E+00	6.7E+00	2.46E+00	pCi/L		4.07E+01	4.6E-01	96%	2/20/15 08:42 a	2.5088	GER19\$1
Rec Limits: 70 130 0.0													
EU-152	5.09E+01		9.7E+00	9.7E+00	5.95E+00	pCi/L		6.05E+01	8.6E-01	84%	2/20/15 08:42 a	2.5088	GER19\$1
Rec Limits: 70 130 -0.2													
Batch: 5036031 9310_ALPHABETA_GPC													
Work Order: M540L1AC Report DB ID: M540L1CS													
Alpha	1.92E+01		1.6E+00	5.0E+00	8.66E-01	pCi/L	100%	2.27E+01	2.3E-01	85%	2/9/15 12:26 p	0.2005	GPC22C
Rec Limits: 70 130 -0.2													
Batch: 5036032 9310_ALPHABETA_GPC													
Work Order: M540N1AC Report DB ID: M540N1CS													
Beta	2.35E+01		1.8E+00	3.4E+00	1.67E+00	pCi/L	100%	2.27E+01	1.6E-01	104%	2/9/15 07:54 p	0.2029	GPC27A
Rec Limits: 70 130 0.0													
Batch: 5036035 I129LL_SEP_LEPS_GS													
Work Order: M540R1AC Report DB ID: M540R1CS													
I129	8.15E+00		1.3E+00	1.3E+00	4.05E-01	pCi/L	100%	1.05E+01	1.7E-01	77%	2/24/15 10:29 p	3.728	LEP4\$1
Rec Limits: 70 130 -0.2													
Batch: 5055037 I129LL_SEP_LEPS_GS													
Work Order: M58J91AC Report DB ID: M58J91CS													
I129	8.82E+00		1.3E+00	1.3E+00	3.91E-01	pCi/L	73%	1.04E+01	1.7E-01	85%	2/26/15 08:51 p	3.8173	LEP4\$1
Rec Limits: 70 130 -0.2													
Batch: 5036033 SRISO_SEP_PRECIP_GPC													
Work Order: M540P2AC Report DB ID: M540P2CS													

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

rptSTLRchLcs
V5.3.6.7 A2002

Date: 27-Feb-15

FORM II
LCS RESULTS

Lab Name: TestAmerica Inc SDG: W07065 Report No.: 64841
 Matrix: WATER

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
STRONTIUM	8.43E+00		4.9E-01	2.0E+00	3.09E-01	pCi/L	93%	7.02E+00	5.0E-02	120%	2/11/15 09:13 p	1.0015	GPC31D
Rec Limits: 70 130 0.2													
Batch: 5036038 UTOT_KPA Work Order: M54081AC Report DB ID: M54081CS													
TOTAL-URANIUM	3.63E+01			4.4E+00	8.28E-02	ug/L		3.53E+01	1.9E-01	103%	2/18/15 02:47 p	25.3	KPAW3
Rec Limits: 70 130 0.0													
Batch: 5036038 UTOT_KPA Work Order: M54081AD Report DB ID: M54081DS													
TOTAL-URANIUM	3.61E+00			3.7E-01	7.91E-02	ug/L		3.65E+00	2.0E-02	99%	2/18/15 02:49 p	26.5	KPAW3
Rec Limits: 70 130 0.0													
Batch: 5036036 TC99_ETVDSK_LSC Work Order: M54021AC Report DB ID: M54021CS													
Tc-99	2.77E+02		7.5E+00	9.8E+00	5.94E+00	pCi/L	100%	3.38E+02	3.5E+00	82%	2/8/15 11:26 a	0.2007	LSC8
Rec Limits: 70 130 -0.2													

No. of Results: 12 Comments:

TestAmerica Inc Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchLcs
 V5.3.6.7 A2002

Date: 27-Feb-15

FORM II
MATRIX SPIKE RESULTS

Lab Name: TestAmerica Inc SDG: W07065 Matrix: WATER
Lot-Sample No.: J5A270438-2, B301B3 Report No.: 64841

Parameter	SpikeResult, Orig Rst	Count Error (2 s)	Qual	Total Uncert(2 s)	MDC MDA	Rpt Unit	Yield	Rec- overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 5036036	3.35E+03	3.2E+01	M52621AM	8.3E+01	M52621MW	pCi/L	100%	93.31%	3.59E+03	2/7/15 07:55 p	0.1255	TC99_ETVDSK_LSC
Tc-99	8.74E+01								2.1E+01		L	LSC8
Work Order: M52621AM		Report DB ID: M52621MW		Orig Sa DB ID: 9M526210								

Number of Results: 1

Comments:

TestAmerica Inc RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA
rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30
V5.3.6.7 A2002

Date: 27-Feb-15

FORM II
MATRIX SPIKE RESULTS

Lab Name: TestAmerica Inc SDG: W07065 Matrix: WATER
Lot-Sample No.: J5A300411-1, B2YXL6 Report No.: 64841

Parameter	SpikeResult, Orig Rst	Count Error (2 s)	Qual	Total Uncert(2 s)	MDC MDA	Rpt Unit	Yield	Rec- overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 5036038	Work Order: M531T1AE	Report DB ID: M531T1EW	3.62E+01	4.6E+00	8.00E-02	ug/L	Orig Sa DB ID: 9M531T10	104.89%	3.45E+01	2/18/15 02:04 p	26.2	UTOT_KPA
TOTAL-URANIUM	1.29E+00								1.8E-01		ML	KPAW3

Number of Results: 1

Comments:

TestAmerica Inc RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
V5.3.6.7 A2002