0096336

SAF-RC-074
100-D/DR Burial Grounds & Remaining Sites – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 4/12/11
INITIAL/DATE

COMMENTS:

SDG JP0133 SAF RC-074

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 118-D-2 Excavation Area 2

RECEIVED
APR 18 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
APR 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 127 *Pages*

Report No.: 46144

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.
JP0133	RC-074	J1FJN4	J1C230604-1	MF35D1AH	9MF35D10	1083130
		J1FJN4	J1C230604-1	MF35D1AF	9MF35D10	1083132
		J1FJN4	J1C230604-1	MF35D1AC	9MF35D10	1083133
		J1FJN4	J1C230604-1	MF35D1AJ	9MF35D10	1083135
		J1FJN4	J1C230604-1	MF35D1AE	9MF35D10	1083136
		J1FJN4	J1C230604-1	MF35D1AG	9MF35D10	1083137
		J1FJN4	J1C230604-1	MF35D1AD	9MF35D10	1083139
		J1FJN4	J1C230604-1	MF35D1AA	9MF35D10	1085028
		J1FJN5	J1C230604-2	MF35E1AH	9MF35E10	1083130
		J1FJN5	J1C230604-2	MF35E1AF	9MF35E10	1083132
		J1FJN5	J1C230604-2	MF35E1AC	9MF35E10	1083133
		J1FJN5	J1C230604-2	MF35E1AJ	9MF35E10	1083135
		J1FJN5	J1C230604-2	MF35E1AE	9MF35E10	1083136
		J1FJN5	J1C230604-2	MF35E1AG	9MF35E10	1083137
		J1FJN5	J1C230604-2	MF35E1AD	9MF35E10	1083139
		J1FJN5	J1C230604-2	MF35E1AA	9MF35E10	1085028
		J1FJN6	J1C230604-3	MF35F1AH	9MF35F10	1083130
		J1FJN6	J1C230604-3	MF35F1AF	9MF35F10	1083132
		J1FJN6	J1C230604-3	MF35F1AC	9MF35F10	1083133
		J1FJN6	J1C230604-3	MF35F1AJ	9MF35F10	1083135
		J1FJN6	J1C230604-3	MF35F1AE	9MF35F10	1083136
		J1FJN6	J1C230604-3	MF35F1AG	9MF35F10	1083137
		J1FJN6	J1C230604-3	MF35F1AD	9MF35F10	1083139
		J1FJN6	J1C230604-3	MF35F1AA	9MF35F10	1085028
		J1FJN7	J1C230604-4	MF35G1AH	9MF35G10	1083130
		J1FJN7	J1C230604-4	MF35G1AF	9MF35G10	1083132

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
JP0133	RC-074	J1FJN7	J1C230604-4	MF35G1AC	9MF35G10	1083133
		J1FJN7	J1C230604-4	MF35G1AJ	9MF35G10	1083135
		J1FJN7	J1C230604-4	MF35G1AE	9MF35G10	1083136
		J1FJN7	J1C230604-4	MF35G1AG	9MF35G10	1083137
		J1FJN7	J1C230604-4	MF35G1AD	9MF35G10	1083139
		J1FJN7	J1C230604-4	MF35G1AA	9MF35G10	1085028
		J1FJN8	J1C230604-5	MF35H1AH	9MF35H10	1083130
		J1FJN8	J1C230604-5	MF35H1AF	9MF35H10	1083132
		J1FJN8	J1C230604-5	MF35H1AC	9MF35H10	1083133
		J1FJN8	J1C230604-5	MF35H1AJ	9MF35H10	1083135
		J1FJN8	J1C230604-5	MF35H1AE	9MF35H10	1083136
		J1FJN8	J1C230604-5	MF35H1AG	9MF35H10	1083137
		J1FJN8	J1C230604-5	MF35H1AD	9MF35H10	1083139
		J1FJN8	J1C230604-5	MF35H1AA	9MF35H10	1085028
		J1FJN9	J1C230604-6	MF35J1AH	9MF35J10	1083130
		J1FJN9	J1C230604-6	MF35J1AF	9MF35J10	1083132
		J1FJN9	J1C230604-6	MF35J1AC	9MF35J10	1083133
		J1FJN9	J1C230604-6	MF35J1AJ	9MF35J10	1083135
		J1FJN9	J1C230604-6	MF35J1AE	9MF35J10	1083136
		J1FJN9	J1C230604-6	MF35J1AG	9MF35J10	1083137
		J1FJN9	J1C230604-6	MF35J1AD	9MF35J10	1083139
		J1FJN9	J1C230604-6	MF35J1AA	9MF35J10	1085028
		J1FJP0	J1C230604-7	MF35K1AH	9MF35K10	1083130
		J1FJP0	J1C230604-7	MF35K1AF	9MF35K10	1083132
		J1FJP0	J1C230604-7	MF35K1AC	9MF35K10	1083133
		J1FJP0	J1C230604-7	MF35K1AJ	9MF35K10	1083135
		J1FJP0	J1C230604-7	MF35K1AE	9MF35K10	1083136
		J1FJP0	J1C230604-7	MF35K1AG	9MF35K10	1083137
		J1FJP0	J1C230604-7	MF35K1AD	9MF35K10	1083139
		J1FJP0	J1C230604-7	MF35K1AA	9MF35K10	1085028
		J1FJP1	J1C230604-8	MF35L1AH	9MF35L10	1083130
		J1FJP1	J1C230604-8	MF35L1AF	9MF35L10	1083132
		J1FJP1	J1C230604-8	MF35L1AC	9MF35L10	1083133
		J1FJP1	J1C230604-8	MF35L1AJ	9MF35L10	1083135
		J1FJP1	J1C230604-8	MF35L1AE	9MF35L10	1083136
		J1FJP1	J1C230604-8	MF35L1AG	9MF35L10	1083137
		J1FJP1	J1C230604-8	MF35L1AD	9MF35L10	1083139
		J1FJP1	J1C230604-8	MF35L1AA	9MF35L10	1085028

Report No.: 46144

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.
JP0133	RC-074	J1FJP2	J1C230604-9	MF35M1AH	9MF35M10	1083130
		J1FJP2	J1C230604-9	MF35M1AF	9MF35M10	1083132
		J1FJP2	J1C230604-9	MF35M1AC	9MF35M10	1083133
		J1FJP2	J1C230604-9	MF35M1AJ	9MF35M10	1083135
		J1FJP2	J1C230604-9	MF35M1AE	9MF35M10	1083136
		J1FJP2	J1C230604-9	MF35M1AG	9MF35M10	1083137
		J1FJP2	J1C230604-9	MF35M1AD	9MF35M10	1083139
		J1FJP2	J1C230604-9	MF35M1AA	9MF35M10	1085028
		J1FJP3	J1C230604-10	MF35N1AH	9MF35N10	1083130
		J1FJP3	J1C230604-10	MF35N1AF	9MF35N10	1083132
		J1FJP3	J1C230604-10	MF35N1AC	9MF35N10	1083133
		J1FJP3	J1C230604-10	MF35N1AJ	9MF35N10	1083135
		J1FJP3	J1C230604-10	MF35N1AE	9MF35N10	1083136
		J1FJP3	J1C230604-10	MF35N1AG	9MF35N10	1083137
		J1FJP3	J1C230604-10	MF35N1AD	9MF35N10	1083139
		J1FJP3	J1C230604-10	MF35N1AA	9MF35N10	1085028
	RC-074	J1FJP4	J1C230604-11	MF35P1AH	9MF35P10	1083130
		J1FJP4	J1C230604-11	MF35P1AF	9MF35P10	1083132
		J1FJP4	J1C230604-11	MF35P1AC	9MF35P10	1083133
		J1FJP4	J1C230604-11	MF35P1AJ	9MF35P10	1083135
		J1FJP4	J1C230604-11	MF35P1AE	9MF35P10	1083136
		J1FJP4	J1C230604-11	MF35P1AG	9MF35P10	1083137
		J1FJP4	J1C230604-11	MF35P1AD	9MF35P10	1083139
		J1FJP4	J1C230604-11	MF35P1AA	9MF35P10	1085028
		J1FJP5	J1C230604-12	MF35Q1AH	9MF35Q10	1083130
		J1FJP5	J1C230604-12	MF35Q1AF	9MF35Q10	1083132
		J1FJP5	J1C230604-12	MF35Q1AC	9MF35Q10	1083133
		J1FJP5	J1C230604-12	MF35Q1AJ	9MF35Q10	1083135
		J1FJP5	J1C230604-12	MF35Q1AE	9MF35Q10	1083136
		J1FJP5	J1C230604-12	MF35Q1AG	9MF35Q10	1083137
		J1FJP5	J1C230604-12	MF35Q1AD	9MF35Q10	1083139
		J1FJP5	J1C230604-12	MF35Q1AA	9MF35Q10	1085028

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

April 6, 2011

Attention: Joan Kessner

SAF Number	:	RC-074
Date SDG Closed	:	March 23, 2011
Number of Samples	:	Twelve (12)
Sample Type	:	Soil
SDG Number	:	JP0133
Data Deliverable	:	7– Day / Summary

CASE NARRATIVE

I. Introduction

On March 23, 2011, twelve soil samples were received at TestAmerica for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID number to correspond with the Washington Closure Hanford (WCH) specific ID:

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1FJN4	MF35D	SOIL	03/23/11
J1FJN5	MF35E	SOIL	03/23/11
J1FJN6	MF35F	SOIL	03/23/11
J1FJN7	MF35G	SOIL	03/23/11
J1FJN8	MF35H	SOIL	03/23/11
J1FJN9	MF35J	SOIL	03/23/11
J1FJP0	MF35K	SOIL	03/23/11
J1FJP1	MF35L	SOIL	03/23/11
J1FJP2	MF35M	SOIL	03/23/11
J1FJP3	MF35N	SOIL	03/23/11
J1FJP4	MF35P	SOIL	03/23/11
J1FJP5	MF35Q	SOIL	03/23/11

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:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002
Uranium 234, 235 and 238 by method RL-ALP-015
Gas Proportional Counting
Strontium-90 by method RL-GPC-003
Gamma Spectroscopy
Gamma Spec by method RL-GAM-001
Liquid Scintillation Counting
Tritium by method RL-LSC-005
Carbon-14 by method RL-LSC-008
Nickel-63 by method RL-LCS-017
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002 :
The LCS, batch blank, samples and sample duplicate (J1FJN5) results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:
The LCS, batch blank, samples and sample duplicate (J1FJN6) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RL-GPC-003 :
The LCS, batch blank, samples and sample duplicate (J1FJN4) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RL-GAM-001 :
There was insufficient volume for a duplicate. Sample J1FJN4 was recounted on a different detector for the duplicate (J1FJN4 DUP). The CRDL was not met on some analytes due to reduced count time. The count time was reduced to meet the priority turn around time. Except as noted, the LCS, batch blank, samples and sample duplicate (J1FJN4) results are within contractual requirements.

Liquid Scintillation Counting
Tritium by method RL-LSC-005 :
The LCS, batch blank, samples and sample duplicate (J1FJN9) results are within contractual requirements.

Carbon-14 by method RL-LSC-008 :
The LCS, batch blank, samples and sample duplicate (J1FJN7) results are within contractual requirements.

Nickel-63 by method RL-LCS-017 :
Sample J1FJN5 has a result that is three times the uncertainty level. Except as noted the LCS, batch blank, samples and sample duplicate (J1FJN8) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The LCS, batch blank, samples, sample duplicate (J1FJN4) and the sample matrix spike (J1FJN4) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Whitney Stair
for Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46144

SDG No: JP0133

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083132 PUISO_PLATE_AEA									
J1FJN4									
	MF35D1AF	PU-238	-1.68E-03 +- 6.7E-02	U	pCi/g	95%	1.26E-01	1.00E+00	
		PU239/40	-3.36E-03 +- 6.7E-02	U	pCi/g	95%	1.40E-01	1.00E+00	
J1FJN5									
	MF35E1AF	PU-238	0.00E+00 +- 5.8E-02	U	pCi/g	99%	1.10E-01	1.00E+00	
		PU239/40	2.92E-02 +- 5.9E-02	U	pCi/g	99%	1.10E-01	1.00E+00	
J1FJN5 DUP									
	MF35E1AK	PU-238	0.00E+00 +- 9.9E-02	U	pCi/g	70%	1.86E-01	1.00E+00	
		PU239/40	4.95E-02 +- 1.0E-01	U	pCi/g	70%	1.86E-01	1.00E+00	51.6
J1FJN6									
	MF35F1AF	PU-238	3.87E-02 +- 7.8E-02	U	pCi/g	84%	1.45E-01	1.00E+00	
		PU239/40	-1.94E-03 +- 7.8E-02	U	pCi/g	84%	1.45E-01	1.00E+00	
J1FJN7									
	MF35G1AF	PU-238	-1.79E-03 +- 7.2E-02	U	pCi/g	76%	1.34E-01	1.00E+00	
		PU239/40	-1.79E-03 +- 7.2E-02	U	pCi/g	76%	1.34E-01	1.00E+00	
J1FJN8									
	MF35H1AF	PU-238	4.75E-02 +- 9.6E-02	U	pCi/g	77%	1.78E-01	1.00E+00	
		PU239/40	9.50E-02 +- 1.4E-01	U	pCi/g	77%	1.78E-01	1.00E+00	
J1FJN9									
	MF35J1AF	PU-238	0.00E+00 +- 8.5E-02	U	pCi/g	84%	1.59E-01	1.00E+00	
		PU239/40	0.00E+00 +- 8.5E-02	U	pCi/g	84%	1.59E-01	1.00E+00	
J1FJP0									
	MF35K1AF	PU-238	-2.27E-03 +- 9.1E-02	U	pCi/g	78%	1.70E-01	1.00E+00	
		PU239/40	-2.27E-03 +- 9.1E-02	U	pCi/g	78%	1.70E-01	1.00E+00	
J1FJP1									
	MF35L1AF	PU-238	-1.86E-03 +- 7.4E-02	U	pCi/g	91%	1.39E-01	1.00E+00	
		PU239/40	-3.72E-03 +- 7.4E-02	U	pCi/g	91%	1.55E-01	1.00E+00	
J1FJP2									
	MF35M1AF	PU-238	0.00E+00 +- 7.1E-02	U	pCi/g	82%	1.33E-01	1.00E+00	
		PU239/40	0.00E+00 +- 7.1E-02	U	pCi/g	82%	1.33E-01	1.00E+00	
J1FJP3									
	MF35N1AF	PU-238	0.00E+00 +- 8.4E-02	U	pCi/g	83%	1.57E-01	1.00E+00	
		PU239/40	0.00E+00 +- 8.4E-02	U	pCi/g	83%	1.57E-01	1.00E+00	
J1FJP4									
	MF35P1AF	PU-238	0.00E+00 +- 8.4E-02	U	pCi/g	81%	1.57E-01	1.00E+00	
		PU239/40	3.98E-02 +- 8.4E-02	U	pCi/g	81%	1.57E-01	1.00E+00	
J1FJP5									
	MF35Q1AF	PU-238	-1.56E-03 +- 6.2E-02	U	pCi/g	92%	1.16E-01	1.00E+00	

TestAmerica

rptSTLRchSaSummary2 V5.2.12
A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 06-Apr-11

TestAmerica TARL

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

Report No. : 46144

SDG No: JP0133

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083132 PUISO_PLATE_AEA									
J1FJP5									
	MF35Q1AF	PU239/40	-1.55E-03 +- 6.2E-02	U	pCi/g	92%	1.16E-01	1.00E+00	
1083133 UISO_IE_PLATE_AEA									
J1FJN4									
	MF35D1AC	U-234	1.97E-01 +- 1.5E-01		pCi/g	104%	1.73E-01	1.00E+00	
		U-235	1.82E-02 +- 4.9E-02	U	pCi/g	104%	1.22E-01	1.00E+00	
		U-238	1.55E-01 +- 1.3E-01		pCi/g	104%	1.54E-01	1.00E+00	
J1FJN5									
	MF35E1AC	U-234	3.19E-01 +- 1.8E-01		pCi/g	97%	1.11E-01	1.00E+00	
		U-235	0.00E+00 +- 4.6E-02	U	pCi/g	97%	8.68E-02	1.00E+00	
		U-238	2.53E-01 +- 1.6E-01		pCi/g	97%	8.68E-02	1.00E+00	
J1FJN6									
	MF35F1AC	U-234	9.04E-02 +- 9.4E-02	U	pCi/g	98%	9.69E-02	1.00E+00	
		U-235	6.84E-02 +- 8.1E-02	U	pCi/g	98%	8.70E-02	1.00E+00	
		U-238	1.59E-01 +- 1.3E-01		pCi/g	98%	1.05E-01	1.00E+00	
J1FJN6 DUP									
	MF35F1AK	U-234	8.62E-02 +- 8.9E-02	U	pCi/g	101%	8.19E-02	1.00E+00	4.8
		U-235	-1.10E-03 +- 4.4E-02	U	pCi/g	101%	8.19E-02	1.00E+00	206.5
		U-238	1.28E-01 +- 1.1E-01		pCi/g	101%	9.85E-02	1.00E+00	21.8
J1FJN7									
	MF35G1AC	U-234	2.19E-01 +- 1.6E-01		pCi/g	88%	1.16E-01	1.00E+00	
		U-235	-5.56E-04 +- 5.5E-02	U	pCi/g	88%	9.34E-02	1.00E+00	
		U-238	2.77E-01 +- 1.8E-01		pCi/g	88%	9.34E-02	1.00E+00	
J1FJN8									
	MF35H1AC	U-234	6.27E-02 +- 9.8E-02	U	pCi/g	78%	1.56E-01	1.00E+00	
		U-235	-2.05E-03 +- 6.8E-02	U	pCi/g	78%	1.31E-01	1.00E+00	
		U-238	2.34E-01 +- 1.9E-01		pCi/g	78%	1.52E-01	1.00E+00	
J1FJN9									
	MF35J1AC	U-234	1.49E-01 +- 1.4E-01	U	pCi/g	87%	1.91E-01	1.00E+00	
		U-235	-1.28E-02 +- 5.7E-02	U	pCi/g	87%	1.65E-01	1.00E+00	
		U-238	2.00E-01 +- 1.7E-01	U	pCi/g	87%	2.05E-01	1.00E+00	
J1FJP0									
	MF35K1AC	U-234	1.85E-01 +- 1.5E-01		pCi/g	85%	1.45E-01	1.00E+00	
		U-235	-5.55E-03 +- 5.6E-02	U	pCi/g	85%	1.32E-01	1.00E+00	
		U-238	1.84E-01 +- 1.5E-01		pCi/g	85%	1.51E-01	1.00E+00	
J1FJP1									
	MF35L1AC	U-234	1.66E-01 +- 1.3E-01		pCi/g	90%	1.10E-01	1.00E+00	
		U-235	0.00E+00 +- 4.9E-02	U	pCi/g	90%	9.11E-02	1.00E+00	

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RPD - Relative Percent Difference.

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Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No.: 46144

SDG No: JP0133

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083133 UISO_IE_PLATE_AEA									
	J1FJP1								
	MF35L1AC	U-238	9.59E-02 +- 9.9E-02	U	pCi/g	90%	9.11E-02	1.00E+00	
	J1FJP2								
	MF35M1AC	U-234	2.96E-01 +- 1.8E-01		pCi/g	93%	9.60E-02	1.00E+00	
		U-235	-1.15E-03 +- 4.6E-02	U	pCi/g	93%	8.61E-02	1.00E+00	
		U-238	2.72E-01 +- 1.7E-01		pCi/g	93%	1.04E-01	1.00E+00	
	J1FJP3								
	MF35N1AC	U-234	2.90E-01 +- 1.9E-01		pCi/g	80%	1.09E-01	1.00E+00	
		U-235	-1.46E-03 +- 5.8E-02	U	pCi/g	80%	1.09E-01	1.00E+00	
		U-238	2.58E-01 +- 1.8E-01		pCi/g	80%	1.21E-01	1.00E+00	
	J1FJP4								
	MF35P1AC	U-234	2.10E-01 +- 1.5E-01		pCi/g	99%	9.86E-02	1.00E+00	
		U-235	-4.73E-04 +- 4.7E-02	U	pCi/g	99%	7.95E-02	1.00E+00	
		U-238	1.17E-01 +- 1.1E-01		pCi/g	99%	7.95E-02	1.00E+00	
	J1FJP5								
	MF35Q1AC	U-234	1.80E-01 +- 1.6E-01		pCi/g	88%	1.41E-01	1.00E+00	
		U-235	-1.85E-03 +- 6.2E-02	U	pCi/g	88%	1.18E-01	1.00E+00	
		U-238	1.19E-01 +- 1.3E-01	U	pCi/g	88%	1.37E-01	1.00E+00	
1083130 GAMMA_GS									
	J1FJN4								
	MF35D1AH	AG-108M	2.88E-03 +- 9.3E-03	U	pCi/g		1.64E-02		
		AMERICIUM 241	-1.62E-02 +- 8.1E-02	U	pCi/g		1.36E-01		
		CO-60	1.15E-03 +- 1.5E-02	U	pCi/g		2.61E-02	5.00E-02	
		CS-137	5.73E-03 +- 1.4E-02	U	pCi/g		2.42E-02	1.00E-01	
		EU-152	-8.78E-04 +- 3.2E-02	U	pCi/g		5.24E-02	1.00E-01	
		EU-154	1.07E-02 +- 4.4E-02	U	pCi/g		7.92E-02	1.00E-01	
		EU-155	3.63E-02 +- 3.2E-02	U	pCi/g		5.74E-02	1.00E-01	
	J1FJN4 DUP								
	MF35D1AK	AG-108M	1.09E-03 +- 1.3E-02	U	pCi/g		2.24E-02		90.4
		AMERICIUM 241	1.10E-02 +- 6.7E-02	U	pCi/g		1.14E-01		-1050.6
		CO-60	-5.01E-03 +- 1.4E-02	U	pCi/g		2.47E-02	5.00E-02	-319.6
		CS-137	5.13E-03 +- 1.6E-02	U	pCi/g		2.79E-02	1.00E-01	10.9
		EU-152	-4.70E-02 +- 6.1E-02	U	pCi/g		6.97E-02	1.00E-01	-192.7
		EU-154	-8.43E-03 +- 4.7E-02	U	pCi/g		8.13E-02	1.00E-01	1666.0
		EU-155	-2.83E-02 +- 5.0E-02	U	pCi/g		8.23E-02	1.00E-01	1620.6
	J1FJN5								
	MF35E1AH	AG-108M	-6.40E-03 +- 1.6E-02	U	pCi/g		2.70E-02		
		AMERICIUM 241	-5.15E-02 +- 6.3E-02	U	pCi/g		1.04E-01		

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Sample Results Summary

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Report No. : 46144

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1083130 GAMMA_GS									
J1FJN5									
	MF35E1AH	CO-60	5.12E-03 +- 2.2E-02	U	pCi/g		3.92E-02	5.00E-02	
		CS-137	5.33E-02 +- 4.0E-02		pCi/g		3.81E-02	1.00E-01	
		EU-152	1.24E-01 +- 6.2E-02	U	pCi/g		1.10E-01	1.00E-01	
		EU-154	-2.87E-02 +- 6.4E-02	U	pCi/g		1.09E-01	1.00E-01	
		EU-155	3.04E-02 +- 5.1E-02	U	pCi/g		8.60E-02	1.00E-01	
J1FJN6									
	MF35F1AH	AG-108M	-1.80E-03 +- 1.2E-02	U	pCi/g		1.99E-02		
		AMERICIUM 241	-5.63E-02 +- 6.3E-02	U	pCi/g		1.03E-01		
		CO-60	3.05E-03 +- 1.3E-02	U	pCi/g		2.40E-02	5.00E-02	
		CS-137	-7.20E-03 +- 1.4E-02	U	pCi/g		2.31E-02	1.00E-01	
		EU-152	5.41E-02 +- 5.0E-02	U	pCi/g		6.97E-02	1.00E-01	
		EU-154	-2.41E-02 +- 4.6E-02	U	pCi/g		7.59E-02	1.00E-01	
		EU-155	7.01E-02 +- 4.8E-02	U	pCi/g		8.23E-02	1.00E-01	
J1FJN7									
	MF35G1AH	AG-108M	-6.18E-03 +- 1.1E-02	U	pCi/g		1.75E-02		
		AMERICIUM 241	-2.47E-02 +- 9.3E-02	U	pCi/g		1.55E-01		
		CO-60	1.04E-02 +- 1.6E-02	U	pCi/g		2.99E-02	5.00E-02	
		CS-137	2.05E-02 +- 1.6E-02	U	pCi/g		2.87E-02	1.00E-01	
		EU-152	2.10E-02 +- 3.6E-02	U	pCi/g		6.25E-02	1.00E-01	
		EU-154	-9.32E-03 +- 5.0E-02	U	pCi/g		8.64E-02	1.00E-01	
		EU-155	5.46E-02 +- 4.2E-02	U	pCi/g		7.40E-02	1.00E-01	
J1FJN8									
	MF35H1AH	AG-108M	-6.55E-03 +- 1.6E-02	U	pCi/g		2.63E-02		
		AMERICIUM 241	1.26E-01 +- 6.8E-02	U	pCi/g		1.19E-01		
		CO-60	1.42E-01 +- 3.8E-02		pCi/g		3.52E-02	5.00E-02	
		CS-137	2.01E-01 +- 4.5E-02		pCi/g		3.43E-02	1.00E-01	
		EU-152	4.26E-03 +- 5.1E-02	U	pCi/g		8.68E-02	1.00E-01	
		EU-154	-1.48E-02 +- 6.3E-02	U	pCi/g		1.09E-01	1.00E-01	
		EU-155	3.88E-02 +- 4.9E-02	U	pCi/g		8.33E-02	1.00E-01	
J1FJN9									
	MF35J1AH	AG-108M	-3.56E-03 +- 1.2E-02	U	pCi/g		2.07E-02		
		AMERICIUM 241	3.25E-03 +- 2.6E-02	U	pCi/g		4.54E-02		
		CO-60	-8.16E-03 +- 1.5E-02	U	pCi/g		2.63E-02	5.00E-02	
		CS-137	-4.21E-03 +- 1.5E-02	U	pCi/g		2.58E-02	1.00E-01	
		EU-152	1.19E-02 +- 4.0E-02	U	pCi/g		7.15E-02	1.00E-01	
		EU-154	4.37E-03 +- 4.4E-02	U	pCi/g		8.03E-02	1.00E-01	
		EU-155	5.40E-02 +- 3.8E-02	U	pCi/g		6.67E-02	1.00E-01	

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

Report No. : 46144 **SDG No:** JP0133

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083130 GAMMA_GS									
J1FJP0									
	MF35K1AH	AG-108M	1.62E-03 +- 1.2E-02	U	pCi/g		2.08E-02		
		AMERICIUM 241	-3.12E-02 +- 6.4E-02	U	pCi/g		1.06E-01		
		CO-60	4.76E-03 +- 1.2E-02	U	pCi/g		2.28E-02	5.00E-02	
		CS-137	1.91E-03 +- 1.4E-02	U	pCi/g		2.50E-02	1.00E-01	
		EU-152	-3.79E-02 +- 6.0E-02	U	pCi/g		6.60E-02	1.00E-01	
		EU-154	-4.27E-02 +- 4.3E-02	U	pCi/g		6.86E-02	1.00E-01	
		EU-155	-8.41E-04 +- 4.8E-02	U	pCi/g		8.06E-02	1.00E-01	
J1FJP1									
	MF35L1AH	AG-108M	-1.40E-02 +- 1.5E-02	U	pCi/g		2.38E-02		
		AMERICIUM 241	5.99E-03 +- 5.8E-02	U	pCi/g		1.00E-01		
		CO-60	-6.58E-03 +- 1.8E-02	U	pCi/g		3.05E-02	5.00E-02	
		CS-137	-6.88E-03 +- 1.9E-02	U	pCi/g		3.21E-02	1.00E-01	
		EU-152	3.51E-02 +- 4.7E-02	U	pCi/g		8.32E-02	1.00E-01	
		EU-154	-3.07E-02 +- 6.3E-02	U	pCi/g		1.07E-01	1.00E-01	
		EU-155	4.17E-02 +- 4.4E-02	U	pCi/g		7.66E-02	1.00E-01	
J1FJP2									
	MF35M1AH	AG-108M	-1.32E-03 +- 9.4E-03	U	pCi/g		1.62E-02		
		AMERICIUM 241	-4.35E-02 +- 7.6E-02	U	pCi/g		1.24E-01		
		CO-60	3.38E-02 +- 1.6E-02	U	pCi/g		3.13E-02	5.00E-02	
		CS-137	4.08E-02 +- 2.4E-02		pCi/g		2.28E-02	1.00E-01	
		EU-152	1.48E-02 +- 3.3E-02	U	pCi/g		5.70E-02	1.00E-01	
		EU-154	2.06E-02 +- 4.3E-02	U	pCi/g		7.81E-02	1.00E-01	
		EU-155	1.65E-02 +- 3.4E-02	U	pCi/g		5.89E-02	1.00E-01	
J1FJP3									
	MF35N1AH	AG-108M	6.20E-03 +- 1.3E-02	U	pCi/g		2.36E-02		
		AMERICIUM 241	2.16E-02 +- 2.9E-02	U	pCi/g		5.00E-02		
		CO-60	-6.06E-03 +- 1.6E-02	U	pCi/g		2.77E-02	5.00E-02	
		CS-137	1.94E-02 +- 1.8E-02	U	pCi/g		3.25E-02	1.00E-01	
		EU-152	-4.37E-03 +- 4.3E-02	U	pCi/g		7.35E-02	1.00E-01	
		EU-154	2.46E-02 +- 5.0E-02	U	pCi/g		9.36E-02	1.00E-01	
		EU-155	9.73E-03 +- 4.1E-02	U	pCi/g		6.98E-02	1.00E-01	
J1FJP4									
	MF35P1AH	AG-108M	6.53E-03 +- 1.2E-02	U	pCi/g		2.22E-02		
		AMERICIUM 241	-9.71E-03 +- 2.7E-02	U	pCi/g		4.59E-02		
		CO-60	4.33E-03 +- 1.5E-02	U	pCi/g		2.78E-02	5.00E-02	
		CS-137	9.39E-02 +- 4.6E-02		pCi/g		2.93E-02	1.00E-01	
		EU-152	1.74E-01 +- 7.9E-02	U	pCi/g		9.97E-02	1.00E-01	

TestAmerica

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1083130 GAMMA_GS									
J1FJP4									
	MF35P1AH	EU-154	3.21E-02 +- 4.6E-02	U	pCi/g		8.79E-02	1.00E-01	
		EU-155	2.02E-02 +- 3.9E-02	U	pCi/g		6.66E-02	1.00E-01	
J1FJP5									
	MF35Q1AH	AG-108M	-9.97E-03 +- 1.3E-02	U	pCi/g		2.12E-02		
		AMERICIUM 241	-9.35E-02 +- 7.0E-02	U	pCi/g		1.12E-01		
		CO-60	-8.57E-03 +- 1.5E-02	U	pCi/g		2.46E-02	5.00E-02	
		CS-137	2.91E-02 +- 1.7E-02	U	pCi/g		3.11E-02	1.00E-01	
		EU-152	9.76E-02 +- 5.7E-02	U	pCi/g		7.59E-02	1.00E-01	
		EU-154	4.25E-03 +- 4.7E-02	U	pCi/g		8.23E-02	1.00E-01	
		EU-155	-1.65E-02 +- 5.0E-02	U	pCi/g		8.32E-02	1.00E-01	
1083139 SRTOT_SEP_PRECIP_GPC									
J1FJN4									
	MF35D1AD	STRONTIUM	6.54E-02 +- 9.4E-02	U	pCi/g	51%	2.03E-01		
J1FJN5									
	MF35E1AD	STRONTIUM	2.13E-01 +- 1.3E-01	U	pCi/g	44%	2.16E-01		
J1FJN6									
	MF35F1AD	STRONTIUM	-1.77E-02 +- 8.2E-02	U	pCi/g	52%	2.00E-01		
J1FJN7									
	MF35G1AD	STRONTIUM	1.14E-03 +- 9.3E-02	U	pCi/g	49%	2.22E-01		
J1FJN8									
	MF35H1AD	STRONTIUM	8.11E-02 +- 9.1E-02	U	pCi/g	56%	1.88E-01		
J1FJN9									
	MF35J1AD	STRONTIUM	1.42E-01 +- 1.0E-01	U	pCi/g	53%	1.88E-01		
J1FJP0									
	MF35K1AD	STRONTIUM	7.02E-02 +- 1.1E-01	U	pCi/g	49%	2.28E-01		
J1FJP0 DUP									
	MF35K1AK	STRONTIUM	6.07E-03 +- 1.0E-01	U	pCi/g	49%	2.39E-01		168.2
J1FJP1									
	MF35L1AD	STRONTIUM	-4.28E-02 +- 7.1E-02	U	pCi/g	62%	1.79E-01		
J1FJP2									
	MF35M1AD	STRONTIUM	5.28E-02 +- 7.5E-02	U	pCi/g	63%	1.60E-01		
J1FJP3									
	MF35N1AD	STRONTIUM	2.80E-02 +- 7.3E-02	U	pCi/g	61%	1.66E-01		
J1FJP4									
	MF35P1AD	STRONTIUM	1.00E-01 +- 8.3E-02	U	pCi/g	62%	1.60E-01		
J1FJP5									
	MF35Q1AD	STRONTIUM	7.71E-02 +- 8.3E-02	U	pCi/g	65%	1.72E-01		

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Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083135 C14_CHEM_LSC									
J1FJN4									
	MF35D1AJ	C-14	1.77E-01 +- 2.1E-01	U	pCi/g	100%	4.53E-01	5.00E+01	
J1FJN5									
	MF35E1AJ	C-14	1.43E-01 +- 2.1E-01	U	pCi/g	100%	4.54E-01	5.00E+01	
J1FJN6									
	MF35F1AJ	C-14	3.38E-01 +- 2.2E-01	U	pCi/g	100%	4.54E-01	5.00E+01	
J1FJN7									
	MF35G1AJ	C-14	3.54E-03 +- 2.0E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1FJN7 DUP									
	MF35G1AK	C-14	-4.86E-02 +- 2.0E-01	U	pCi/g	100%	4.56E-01	5.00E+01	-231.4
J1FJN8									
	MF35H1AJ	C-14	-1.95E-02 +- 2.0E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1FJN9									
	MF35J1AJ	C-14	1.35E-01 +- 2.1E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
J1FJP0									
	MF35K1AJ	C-14	-1.04E-02 +- 2.0E-01	U	pCi/g	100%	4.56E-01	5.00E+01	
J1FJP1									
	MF35L1AJ	C-14	5.40E-01 +- 2.3E-01		pCi/g	100%	4.56E-01	5.00E+01	
J1FJP2									
	MF35M1AJ	C-14	2.96E-02 +- 2.1E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
J1FJP3									
	MF35N1AJ	C-14	2.79E-01 +- 2.2E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
J1FJP4									
	MF35P1AJ	C-14	4.90E-02 +- 2.1E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
J1FJP5									
	MF35Q1AJ	C-14	3.58E-01 +- 2.2E-01	U	pCi/g	100%	4.56E-01	5.00E+01	
1083136 NI63_LSC									
J1FJN4									
	MF35D1AE	NI-63	-3.45E+00 +- 7.0E+00	U	pCi/g	94%	1.49E+01	3.00E+01	
J1FJN5									
	MF35E1AE	NI-63	-1.00E+01 +- 6.3E+00	U	pCi/g	97%	1.44E+01	3.00E+01	
J1FJN6									
	MF35F1AE	NI-63	-6.79E+00 +- 7.3E+00	U	pCi/g	96%	1.59E+01	3.00E+01	
J1FJN7									
	MF35G1AE	NI-63	-5.70E-01 +- 7.2E+00	U	pCi/g	97%	1.50E+01	3.00E+01	
J1FJN8									
	MF35H1AE	NI-63	1.66E+00 +- 6.6E+00	U	pCi/g	96%	1.35E+01	3.00E+01	
J1FJN8 DUP									
	MF35H1AK	NI-63	-3.62E+00 +- 6.4E+00	U	pCi/g	95%	1.37E+01	3.00E+01	-539.3

TestAmerica

rptSTLRchSaSum mary2 V5.2.12 A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46144

SDG No: JP0133

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083136 NI63_LSC									
J1FJN9									
	MF35J1AE	NI-63	-9.71E+00 +- 6.6E+00	U	pCi/g	98%	1.50E+01	3.00E+01	
J1FJP0									
	MF35K1AE	NI-63	-5.57E+00 +- 6.7E+00	U	pCi/g	96%	1.46E+01	3.00E+01	
J1FJP1									
	MF35L1AE	NI-63	-4.26E+00 +- 6.0E+00	U	pCi/g	97%	1.30E+01	3.00E+01	
J1FJP2									
	MF35M1AE	NI-63	-2.39E+00 +- 7.2E+00	U	pCi/g	96%	1.53E+01	3.00E+01	
J1FJP3									
	MF35N1AE	NI-63	-7.76E+00 +- 6.8E+00	U	pCi/g	96%	1.52E+01	3.00E+01	
J1FJP4									
	MF35P1AE	NI-63	2.26E+00 +- 7.2E+00	U	pCi/g	96%	1.46E+01	3.00E+01	
J1FJP5									
	MF35Q1AE	NI-63	-5.64E-01 +- 7.2E+00	U	pCi/g	94%	1.50E+01	3.00E+01	
1083137 906.0_H3_LSC									
J1FJN4									
	MF35D1AG	H-3	3.85E-02 +- 9.0E-03		pCi/g	100%	1.69E-02	4.00E+02	
J1FJN5									
	MF35E1AG	H-3	3.38E-02 +- 1.1E-02		pCi/g	100%	2.27E-02	4.00E+02	
J1FJN6									
	MF35F1AG	H-3	6.90E-02 +- 7.8E-03		pCi/g	100%	1.18E-02	4.00E+02	
J1FJN7									
	MF35G1AG	H-3	1.53E-02 +- 9.3E-03	U	pCi/g	100%	2.02E-02	4.00E+02	
J1FJN8									
	MF35H1AG	H-3	2.06E+00 +- 6.7E-02		pCi/g	100%	1.43E-02	4.00E+02	
J1FJN9									
	MF35J1AG	H-3	4.28E-02 +- 8.3E-03		pCi/g	100%	1.50E-02	4.00E+02	
J1FJN9 DUP									
	MF35J1AK	H-3	9.81E-03 +- 7.3E-03	U	pCi/g	100%	1.58E-02	4.00E+02	125.4
J1FJP0									
	MF35K1AG	H-3	1.01E+00 +- 3.8E-02		pCi/g	100%	1.53E-02	4.00E+02	
J1FJP1									
	MF35L1AG	H-3	1.37E-02 +- 9.5E-03	U	pCi/g	100%	2.05E-02	4.00E+02	
J1FJP2									
	MF35M1AG	H-3	3.20E-02 +- 7.2E-03		pCi/g	100%	1.35E-02	4.00E+02	
J1FJP3									
	MF35N1AG	H-3	2.44E-02 +- 7.0E-03		pCi/g	100%	1.38E-02	4.00E+02	
J1FJP4									
	MF35P1AG	H-3	6.14E-03 +- 6.6E-03	U	pCi/g	100%	1.43E-02	4.00E+02	

TestAmerica

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RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 06-Apr-11

TestAmerica TARL

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

Report No. : 46144

SDG No: JP0133

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083137	906.0_H3_LSC								
	J1FJP5								
	MF35Q1AG	H-3	4.63E-03 +- 7.7E-03	U	pCi/g	100%	1.72E-02	4.00E+02	
1085028	7196_CR6								
	J1FJN4								
	MF35D1AA	HEXCHROME	1.47E-01 +- 0.0E+00	U	mg/kg	N/A	1.47E-01	1.55E-01	
	MF35D1AN	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	3.50E-01	3.3
	J1FJN5								
	MF35E1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJN6								
	MF35F1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJN7								
	MF35G1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJN8								
	MF35H1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJN9								
	MF35J1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJP0								
	MF35K1AA	HEXCHROME	1.51E-01 +- 0.0E+00	U	mg/kg	N/A	1.51E-01	1.55E-01	
	J1FJP1								
	MF35L1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJP2								
	MF35M1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJP3								
	MF35N1AA	HEXCHROME	1.52E-01 +- 0.0E+00	U	mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJP4								
	MF35P1AA	HEXCHROME	1.51E-01 +- 0.0E+00	U	mg/kg	N/A	1.51E-01	1.55E-01	
	J1FJP5								
	MF35Q1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	

No. of Results: 221

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RPD - Relative Percent Difference.

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QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 06-Apr-11

Report No. : 46144

SDG No.: JP0133

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
PUISO_PLATE_AEA								
1083132 BLANK QC,								
MF4HX1AA	PU-238	0.00E+00 +- 8.3E-02	U	pCi/g	92%			1.55E-01
	PU239/40	0.00E+00 +- 8.3E-02	U	pCi/g	92%			1.55E-01
1083132 LCS,								
MF4HX1AC	PU239/40	7.42E+00 +- 2.0E+00		pCi/g	82%	114%	0.1	1.57E-01
UISO_IE_PLATE_AEA								
1083133 BLANK QC,								
MF4H11AA	U-234	-1.44E-02 +- 5.3E-02	U	pCi/g	89%			1.61E-01
	U-235	-1.05E-02 +- 5.3E-02	U	pCi/g	89%			1.48E-01
	U-238	-2.23E-02 +- 5.4E-02	U	pCi/g	89%			1.83E-01
1083133 LCS,								
MF4H11AC	U-234	3.31E+00 +- 9.3E-01		pCi/g	86%	100%	0.0	1.62E-01
	U-238	3.60E+00 +- 9.9E-01		pCi/g	86%	104%	0.0	1.56E-01
GAMMA_GS								
1083130 BLANK QC,								
MF4HR1AA	AG-108M	-9.89E-04 +- 1.1E-02	U	pCi/g				1.93E-02
	AMERICIUM 241	5.30E-03 +- 4.3E-02	U	pCi/g				7.42E-02
	CO-60	-7.15E-03 +- 1.5E-02	U	pCi/g				2.52E-02
	CS-137	3.11E-06 +- 1.4E-02	U	pCi/g				2.55E-02
	EU-152	-9.51E-03 +- 3.7E-02	U	pCi/g				6.35E-02
	EU-154	-3.00E-02 +- 3.9E-02	U	pCi/g				6.44E-02
	EU-155	-5.97E-03 +- 3.0E-02	U	pCi/g				5.08E-02
1083130 LCS,								
MF4HR1AC	CS-137	1.12E+00 +- 1.5E-01		pCi/g		103%	0.0	2.73E-02
SRTOT_SEP_PRECIP_GPC								
1083139 BLANK QC,								
MF4H71AA	STRONTIUM	4.74E-02 +- 6.2E-02	U	pCi/g	94%			1.31E-01
1083139 LCS,								
MF4H71AC	STRONTIUM	1.04E+00 +- 3.0E-01		pCi/g	94%	92%	-0.1	1.24E-01
C14_CHEM_LSC								
1083135 BLANK QC,								
MF4H31AA	C-14	2.64E-03 +- 5.2E-03	U	pCi/g	100%			1.15E-02
1083135 LCS,								
MF4H31AC	C-14	7.48E+00 +- 5.3E-01		pCi/g	100%	102%	0.0	4.59E-01
NI63_LSC								
1083136 BLANK QC,								
MF4H51AA	NI-63	-3.65E+00 +- 7.4E+00	U	pCi/g	88%			1.59E+01
1083136 LCS,								
MF4H51AC	NI-63	5.26E+02 +- 5.3E+01		pCi/g	100%	83%	-0.2	1.46E+01
906.0_H3_LSC								
1083137 BLANK QC,								

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

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

QC Results Summary

Date: 06-Apr-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46144 **SDG No.:** JP0133

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
MF4H61AA	H-3	8.98E-02 +- 2.3E-02		pCi/g	100%			4.30E-02
1083137 LCS,								
MF4H61AC	H-3	3.50E-01 +- 3.1E-02		pCi/g	100%	109%	0.1	4.03E-02
7196_CR6								
1085028 MATRIX SPIKE, J1FJN4								
MF35D1AL	HEXCHROME	8.41E+00 +- 0.0E+00		mg/kg	N/A	86%	-0.1	1.46E-01
1085028 LCS,								
MF75W1AC	HEXCHROME	1.85E+01 +- 0.0E+00		mg/kg	N/A	93%	-0.1	1.55E-01
1085028 BLANK QC,								
MF75W1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 27

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

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

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 12:10:00 PM
Lot-Sample No.:	J1C230604-1	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN4	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35D1AH			**Report DB ID:** 9MF35D10					
AG-108M	***2.88E-03***	U	9.3E-03	9.3E-03	1.64E-02	pCi/g		*0.18*	3/25/11 11:00 a		349.8	GER11$1
								0.62			g	
AMERICIUM 241	***-1.62E-02***	U	8.1E-02	8.1E-02	1.36E-01	pCi/g		*-0.12*	3/25/11 11:00 a		349.8	GER11$1
								-0.4			g	
CO-60	***1.15E-03***	U	1.5E-02	1.5E-02	2.61E-02	pCi/g		*0.04*	3/25/11 11:00 a		349.8	GER11$1
							5.00E-02	*0.16*			g	
CS-137	***5.73E-03***	U	1.4E-02	1.4E-02	2.42E-02	pCi/g		*0.24*	3/25/11 11:00 a		349.8	GER11$1
							1.00E-01	*0.84*			g	
EU-152	***-8.78E-04***	U	3.2E-02	3.2E-02	5.24E-02	pCi/g		*-0.02*	3/25/11 11:00 a		349.8	GER11$1
							1.00E-01	*-0.05*			g	
EU-154	***1.07E-02***	U	4.4E-02	4.4E-02	7.92E-02	pCi/g		*0.14*	3/25/11 11:00 a		349.8	GER11$1
							1.00E-01	*0.49*			g	
EU-155	***3.63E-02***	U	3.2E-02	3.2E-02	5.74E-02	pCi/g		*0.63*	3/25/11 11:00 a		349.8	GER11$1
							1.00E-01	*(2.3)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35D1AF			**Report DB ID:** 9MF35D10					
PU-238	***-1.68E-03***	U	6.7E-02	6.7E-02	1.26E-01	pCi/g	95%	*-0.01*	3/30/11 04:16 p		1.05	ALP46
						1.74E-02	1.00E+00	*-0.05*			g	
PU239/40	***-3.36E-03***	U	6.7E-02	6.7E-02	1.40E-01	pCi/g	95%	*-0.02*	3/30/11 04:16 p		1.05	ALP46
						2.46E-02	1.00E+00	*-0.1*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35D1AC			**Report DB ID:** 9MF35D10					

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 12:10:00 PM
Lot-Sample No.:	J1C230604-1	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN4	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***1.97E-01***		1.5E-01	1.5E-01	1.73E-01	pCi/g	104%	*(1.1)*	4/2/11 07:48 a		0.99	ALP4
						5.37E-02	1.00E+00	*(2.6)*			g	
U-235	***1.82E-02***	U	4.9E-02	4.9E-02	1.22E-01	pCi/g	104%	*0.15*	4/2/11 07:48 a		0.99	ALP4
						2.83E-02	1.00E+00	*0.74*			g	
U-238	***1.55E-01***		1.3E-01	1.3E-01	1.54E-01	pCi/g	104%	*(1.)*	4/2/11 07:48 a		0.99	ALP4
						4.39E-02	1.00E+00	*(2.3)*			g	
							Ratio U-234/238 = 1.3					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35D1AJ		**Report DB ID:**	9MF35D10				
C-14	***1.77E-01***	U	1.9E-01	2.1E-01	4.53E-01	pCi/g	100%	*0.39*	4/4/11 08:21 p		5.056	LSC4
						2.14E-01	5.00E+01	*(1.7)*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35D1AE		**Report DB ID:**	9MF35D10				
NI-63	***-3.45E+00***	U	5.9E+00	7.0E+00	1.49E+01	pCi/g	94%	*-0.23*	4/3/11 06:38 a		0.25	LSC3
						7.02E+00	3.00E+01	*-0.99*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35D1AG		**Report DB ID:**	9MF35D10				
H-3	***3.85E-02***		8.5E-03	9.0E-03	1.69E-02	pCi/g	100%	*(2.3)*	4/2/11 09:13 a		99.8	LSC8
						8.06E-03	4.00E+02	*(8.5)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35D1AD		**Report DB ID:**	9MF35D10				
STRONTIUM	***6.54E-02***	U	9.3E-02	9.4E-02	2.03E-01	pCi/g	51%	*0.32*	4/4/11 06:41 p		6.0	GPC31A
						9.41E-02		*(1.4)*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35D1AA		**Report DB ID:**	9MF35D10				
HEXCHROME	***1.47E-01***	U		0.0E+00	1.47E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

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

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:10:00 PM
Lot-Sample No.:	J1C230604-1	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN4	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 12:15:00 PM
Lot-Sample No.:	J1C230604-2	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN5	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35E1AH			**Report DB ID:** 9MF35E10					
AG-108M	***-6.40E-03***	U	1.6E-02	1.6E-02	2.70E-02	pCi/g		*-0.24*	3/25/11 11:01 a		368.8	GER7$1
								-0.8			g	
AMERICIUM 241	***-5.15E-02***	U	6.3E-02	6.3E-02	1.04E-01	pCi/g		*-0.49*	3/25/11 11:01 a		368.8	GER7$1
								-(1.6)			g	
CO-60	***5.12E-03***	U	2.2E-02	2.2E-02	3.92E-02	pCi/g		*0.13*	3/25/11 11:01 a		368.8	GER7$1
							5.00E-02	*0.47*			g	
CS-137	***5.33E-02***		4.0E-02	4.0E-02	3.81E-02	pCi/g		*(1.4)*	3/25/11 11:01 a		368.8	GER7$1
							1.00E-01	*(2.7)*			g	
EU-152	***1.24E-01***	U	6.2E-02	6.2E-02	1.10E-01	pCi/g		*(1.1)*	3/25/11 11:01 a		368.8	GER7$1
							1.00E-01	*(4.)*			g	
EU-154	***-2.87E-02***	U	6.4E-02	6.4E-02	1.09E-01	pCi/g		*-0.26*	3/25/11 11:01 a		368.8	GER7$1
							1.00E-01	*-0.89*			g	
EU-155	***3.04E-02***	U	5.1E-02	5.1E-02	8.60E-02	pCi/g		*0.35*	3/25/11 11:01 a		368.8	GER7$1
							1.00E-01	*(1.2)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35E1AF			**Report DB ID:** 9MF35E10					
PU-238	***0.00E+00***	U	0.0E+00	5.8E-02	1.10E-01	pCi/g	99%	*0.*	3/30/11 04:18 p		1.0	ALP121
						1.52E-02	1.00E+00	*0.*			g	
PU239/40	***2.92E-02***	U	5.8E-02	5.9E-02	1.10E-01	pCi/g	99%	*0.27*	3/30/11 04:18 p		1.0	ALP121
						1.52E-02	1.00E+00	*0.99*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35E1AC			**Report DB ID:** 9MF35E10					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:15:00 PM
Lot-Sample No.:	J1C230604-2	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN5	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***3.19E-01***		1.7E-01	1.8E-01	1.11E-01	pCi/g	97%	*(2.9)*	4/2/11 07:48 a		1.0	ALP9
						2.41E-02	1.00E+00	*(3.5)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.6E-02	8.68E-02	pCi/g	97%	*0.*	4/2/11 07:48 a		1.0	ALP9
						1.21E-02	1.00E+00	*0.*			g	
U-238	***2.53E-01***		1.5E-01	1.6E-01	8.68E-02	pCi/g	97%	*(2.9)*	4/2/11 07:48 a		1.0	ALP9
						1.21E-02	1.00E+00	*(3.1)*			g	
							Ratio U-234/238 = 1.3					
Batch: 1083135	C14_CHEM_LSC			Work Order:	MF35E1AJ		Report DB ID:	9MF35E10				
C-14	***1.43E-01***	U	1.9E-01	2.1E-01	4.54E-01	pCi/g	100%	*0.32*	4/4/11 08:43 p		5.043	LSC4
						2.14E-01	5.00E+01	*(1.4)*			g	
Batch: 1083136	NI63_LSC			Work Order:	MF35E1AE		Report DB ID:	9MF35E10				
NI-63	***-1.00E+01***	U	5.3E+00	6.3E+00	1.44E+01	pCi/g	97%	*-0.69*	4/3/11 07:01 a		0.25	LSC3
						6.79E+00	3.00E+01	*-(3.2)*			g	
Batch: 1083137	906.0_H3_LSC			Work Order:	MF35E1AG		Report DB ID:	9MF35E10				
H-3	***3.38E-02***		1.1E-02	1.1E-02	2.27E-02	pCi/g	100%	*(1.5)*	4/2/11 10:34 a		91.2	LSC8
						1.08E-02	4.00E+02	*(6.)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			Work Order:	MF35E1AD		Report DB ID:	9MF35E10				
STRONTIUM	***2.13E-01***	U	1.2E-01	1.3E-01	2.16E-01	pCi/g	44%	*0.98*	4/4/11 06:41 p		6.0	GPC31B
						1.00E-01		*(3.3)*			g	
Batch: 1085028	7196_CR6			Work Order:	MF35E1AA		Report DB ID:	9MF35E10				
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:15:00 PM
Lot-Sample No.:	J1C230604-2	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN5	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:20:00 PM
Lot-Sample No.:	J1C230604-3	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN6	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35F1AH			**Report DB ID:** 9MF35F10					
AG-108M	***-1.80E-03***	U	1.2E-02	1.2E-02	1.99E-02	pCi/g		*-0.09*	3/25/11 11:01 a		416.0	GER10$1
								-0.3			g	
AMERICIUM 241	***-5.63E-02***	U	6.3E-02	6.3E-02	1.03E-01	pCi/g		*-0.54*	3/25/11 11:01 a		416.0	GER10$1
								-(1.8)			g	
CO-60	***3.05E-03***	U	1.3E-02	1.3E-02	2.40E-02	pCi/g		*0.13*	3/25/11 11:01 a		416.0	GER10$1
							5.00E-02	*0.46*			g	
CS-137	***-7.20E-03***	U	1.4E-02	1.4E-02	2.31E-02	pCi/g		*-0.31*	3/25/11 11:01 a		416.0	GER10$1
							1.00E-01	*-(1.)*			g	
EU-152	***5.41E-02***	U	5.0E-02	5.0E-02	6.97E-02	pCi/g		*0.78*	3/25/11 11:01 a		416.0	GER10$1
							1.00E-01	*(2.2)*			g	
EU-154	***-2.41E-02***	U	4.6E-02	4.6E-02	7.59E-02	pCi/g		*-0.32*	3/25/11 11:01 a		416.0	GER10$1
							1.00E-01	*-(1.1)*			g	
EU-155	***7.01E-02***	U	4.8E-02	4.8E-02	8.23E-02	pCi/g		*0.85*	3/25/11 11:01 a		416.0	GER10$1
							1.00E-01	*(2.9)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35F1AF			**Report DB ID:** 9MF35F10					
PU-238	***3.87E-02***	U	7.8E-02	7.8E-02	1.45E-01	pCi/g	84%	*0.27*	3/30/11 04:19 p		1.03	ALP124
						2.02E-02	1.00E+00	*0.99*			g	
PU239/40	***-1.94E-03***	U	7.8E-02	7.8E-02	1.45E-01	pCi/g	84%	*-0.01*	3/30/11 04:19 p		1.03	ALP124
						2.02E-02	1.00E+00	*-0.05*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35F1AC			**Report DB ID:** 9MF35F10					

TestAmerica
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V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:20:00 PM
Lot-Sample No.:	J1C230604-3	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN6	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***9.04E-02***	U	9.3E-02	9.4E-02	9.69E-02	pCi/g	98%	*0.93*	4/2/11 07:48 a		0.97	ALP11
						1.71E-02	1.00E+00	*(1.9)*			g	
U-235	***6.84E-02***	U	8.0E-02	8.1E-02	8.70E-02	pCi/g	98%	*0.79*	4/2/11 07:48 a		0.97	ALP11
						1.21E-02	1.00E+00	*(1.7)*			g	
U-238	***1.59E-01***		1.2E-01	1.3E-01	1.05E-01	pCi/g	98%	*(1.5)*	4/2/11 07:48 a		0.97	ALP11
						2.09E-02	1.00E+00	*(2.5)*			g	
							Ratio U-234/238 = 0.6					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35F1AJ		**Report DB ID:**	9MF35F10				
C-14	***3.38E-01***	U	2.0E-01	2.2E-01	4.54E-01	pCi/g	100%	*0.75*	4/4/11 09:06 p		5.057	LSC4
						2.14E-01	5.00E+01	*(3.1)*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35F1AE		**Report DB ID:**	9MF35F10				
NI-63	***-6.79E+00***	U	6.1E+00	7.3E+00	1.59E+01	pCi/g	96%	*-0.43*	4/3/11 07:24 a		0.23	LSC3
						7.49E+00	3.00E+01	*-(1.9)*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35F1AG		**Report DB ID:**	9MF35F10				
H-3	***6.90E-02***		7.3E-03	7.8E-03	1.18E-02	pCi/g	100%	*(5.9)*	4/2/11 11:56 a		147.7	LSC8
						5.60E-03	4.00E+02	*(17.7)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35F1AD		**Report DB ID:**	9MF35F10				
STRONTIUM	***-1.77E-02***	U	8.1E-02	8.2E-02	2.00E-01	pCi/g	52%	*-0.09*	4/4/11 06:41 p		6.04	GPC31D
						9.28E-02		*-0.43*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35F1AA		**Report DB ID:**	9MF35F10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:20:00 PM
Lot-Sample No.:	J1C230604-3	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN6	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:25:00 PM
Lot-Sample No.:	J1C230604-4	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN7	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35G1AH			**Report DB ID:** 9MF35G10					
AG-108M	***-6.18E-03***	U	1.1E-02	1.1E-02	1.75E-02	pCi/g		*-0.35*	3/25/11 02:34 p		324.7	GER11$1
								-(1.2)			g	
AMERICIUM 241	***-2.47E-02***	U	9.3E-02	9.3E-02	1.55E-01	pCi/g		*-0.16*	3/25/11 02:34 p		324.7	GER11$1
								-0.53			g	
CO-60	***1.04E-02***	U	1.6E-02	1.6E-02	2.99E-02	pCi/g		*0.35*	3/25/11 02:34 p		324.7	GER11$1
							5.00E-02	*(1.3)*			g	
CS-137	***2.05E-02***	U	1.6E-02	1.6E-02	2.87E-02	pCi/g		*0.71*	3/25/11 02:34 p		324.7	GER11$1
							1.00E-01	*(2.6)*			g	
EU-152	***2.10E-02***	U	3.6E-02	3.6E-02	6.25E-02	pCi/g		*0.34*	3/25/11 02:34 p		324.7	GER11$1
							1.00E-01	*(1.2)*			g	
EU-154	***-9.32E-03***	U	5.0E-02	5.0E-02	8.64E-02	pCi/g		*-0.11*	3/25/11 02:34 p		324.7	GER11$1
							1.00E-01	*-0.37*			g	
EU-155	***5.46E-02***	U	4.2E-02	4.2E-02	7.40E-02	pCi/g		*0.74*	3/25/11 02:34 p		324.7	GER11$1
							1.00E-01	*(2.6)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35G1AF			**Report DB ID:** 9MF35G10					
PU-238	***-1.79E-03***	U	7.2E-02	7.2E-02	1.34E-01	pCi/g	76%	*-0.01*	3/30/11 04:19 p		1.05	ALP125
						1.86E-02	1.00E+00	*-0.05*			g	
PU239/40	***-1.79E-03***	U	7.2E-02	7.2E-02	1.34E-01	pCi/g	76%	*-0.01*	3/30/11 04:19 p		1.05	ALP125
						1.86E-02	1.00E+00	*-0.05*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35G1AC			**Report DB ID:** 9MF35G10					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:25:00 PM
Lot-Sample No.:	J1C230604-4	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN7	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***2.19E-01***		1.6E-01	1.6E-01	1.16E-01	pCi/g	88%	*(1.9)*	4/2/11 07:49 a		0.99	ALP71
						2.04E-02	1.00E+00	*(2.7)*			g	
U-235	***-5.56E-04***	U	5.5E-02	5.5E-02	9.34E-02	pCi/g	88%	*-0.01*	4/2/11 07:49 a		0.99	ALP71
						9.13E-03	1.00E+00	*-0.02*			g	
U-238	***2.77E-01***		1.8E-01	1.8E-01	9.34E-02	pCi/g	88%	*(3.)*	4/2/11 07:49 a		0.99	ALP71
						9.13E-03	1.00E+00	*(3.)*			g	
							Ratio U-234/238 = 0.8					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35G1AJ		**Report DB ID:**	9MF35G10				
C-14	***3.54E-03***	U	1.9E-01	2.0E-01	4.57E-01	pCi/g	100%	*0.01*	4/4/11 09:28 p		5.011	LSC4
						2.15E-01	5.00E+01	*0.03*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35G1AE		**Report DB ID:**	9MF35G10				
NI-63	***-5.70E-01***	U	6.1E+00	7.2E+00	1.50E+01	pCi/g	97%	*-0.04*	4/3/11 07:47 a		0.24	LSC3
						7.07E+00	3.00E+01	*-0.16*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35G1AG		**Report DB ID:**	9MF35G10				
H-3	***1.53E-02***	U	8.8E-03	9.3E-03	2.02E-02	pCi/g	100%	*0.76*	4/2/11 01:18 p		118.1	LSC8
						9.59E-03	4.00E+02	*(3.3)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35G1AD		**Report DB ID:**	9MF35G10				
STRONTIUM	***1.14E-03***	U	9.3E-02	9.3E-02	2.22E-01	pCi/g	49%	*0.01*	4/4/11 06:41 p		5.99	GPC32A
						1.04E-01		*0.02*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35G1AA		**Report DB ID:**	9MF35G10				
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
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V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:25:00 PM
Lot-Sample No.:	J1C230604-4	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN7	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
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V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0133	**Collection Date:**	3/22/2011 1:30:00 PM
Lot-Sample No.:	**J1C230604-5**	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	**J1FJN8**	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35H1AH			**Report DB ID:** 9MF35H10					
AG-108M	***-6.55E-03***	U	1.6E-02	1.6E-02	2.63E-02	pCi/g		*-0.25*	3/25/11 02:34 p		407.3	GER7$1
								-0.84			g	
AMERICIUM 241	***1.26E-01***	U	6.8E-02	6.8E-02	1.19E-01	pCi/g		*(1.1)*	3/25/11 02:34 p		407.3	GER7$1
								(3.7)			g	
CO-60	***1.42E-01***		3.8E-02	3.8E-02	3.52E-02	pCi/g		*(4.)*	3/25/11 02:34 p		407.3	GER7$1
							5.00E-02	*(7.4)*			g	
CS-137	***2.01E-01***		4.5E-02	4.5E-02	3.43E-02	pCi/g		*(5.9)*	3/25/11 02:34 p		407.3	GER7$1
							1.00E-01	*(9.)*			g	
EU-152	***4.26E-03***	U	5.1E-02	5.1E-02	8.68E-02	pCi/g		*0.05*	3/25/11 02:34 p		407.3	GER7$1
							1.00E-01	*0.17*			g	
EU-154	***-1.48E-02***	U	6.3E-02	6.3E-02	1.09E-01	pCi/g		*-0.14*	3/25/11 02:34 p		407.3	GER7$1
							1.00E-01	*-0.47*			g	
EU-155	***3.88E-02***	U	4.9E-02	4.9E-02	8.33E-02	pCi/g		*0.47*	3/25/11 02:34 p		407.3	GER7$1
							1.00E-01	*(1.6)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35H1AF			**Report DB ID:** 9MF35H10					
PU-238	***4.75E-02***	U	9.5E-02	9.6E-02	1.78E-01	pCi/g	77%	*0.27*	3/30/11 04:20 p		1.03	ALP127
						2.48E-02	1.00E+00	*0.99*			g	
PU239/40	***9.50E-02***	U	1.3E-01	1.4E-01	1.78E-01	pCi/g	77%	*0.53*	3/30/11 04:20 p		1.03	ALP127
						2.48E-02	1.00E+00	*(1.4)*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35H1AC			**Report DB ID:** 9MF35H10					

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V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:30:00 PM
Lot-Sample No.:	J1C230604-5	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN8	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***6.27E-02***	U	9.6E-02	9.8E-02	1.56E-01	pCi/g	78%	*0.4*	4/2/11 07:49 a		1.05	ALP84
						3.17E-02	1.00E+00	*(1.3)*			g	
U-235	***-2.05E-03***	U	6.8E-02	6.8E-02	1.31E-01	pCi/g	78%	*-0.02*	4/2/11 07:49 a		1.05	ALP84
						1.94E-02	1.00E+00	*-0.06*			g	
U-238	***2.34E-01***		1.8E-01	1.9E-01	1.52E-01	pCi/g	78%	*(1.5)*	4/2/11 07:49 a		1.05	ALP84
						2.97E-02	1.00E+00	*(2.5)*			g	
								Ratio U-234/238 = 0.3				
Batch: 1083135	C14_CHEM_LSC			**Work Order:** MF35H1AJ			**Report DB ID:** 9MF35H10					
C-14	***-1.95E-02***	U	1.8E-01	2.0E-01	4.57E-01	pCi/g	100%	*-0.04*	4/4/11 10:14 p		5.013	LSC4
						2.15E-01	5.00E+01	*-0.19*			g	
Batch: 1083136	NI63_LSC			**Work Order:** MF35H1AE			**Report DB ID:** 9MF35H10					
NI-63	***1.66E+00***	U	5.5E+00	6.6E+00	1.35E+01	pCi/g	96%	*0.12*	4/3/11 08:10 a		0.27	LSC3
						6.35E+00	3.00E+01	*0.51*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:** MF35H1AG			**Report DB ID:** 9MF35H10					
H-3	***2.06E+00***		3.3E-02	6.7E-02	1.43E-02	pCi/g	100%	*(144.)*	4/2/11 02:40 p		120.8	LSC8
						6.79E-03	4.00E+02	*(61.3)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF35H1AD			**Report DB ID:** 9MF35H10					
STRONTIUM	***8.11E-02***	U	8.8E-02	9.1E-02	1.88E-01	pCi/g	56%	*0.43*	4/4/11 06:41 p		6.01	GPC32B
						8.73E-02		*(1.8)*			g	
Batch: 1085028	7196_CR6			**Work Order:** MF35H1AA			**Report DB ID:** 9MF35H10					
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

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

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0133	**Collection Date:**	3/22/2011 1:30:00 PM
Lot-Sample No.:	**J1C230604-5**	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	**J1FJN8**	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

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V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0133	**Collection Date:**	3/22/2011 1:35:00 PM
Lot-Sample No.:	**J1C230604-6**	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	**J1FJN9**	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35J1AH			**Report DB ID:** 9MF35J10					
AG-108M	***-3.56E-03***	U	1.2E-02	1.2E-02	2.07E-02	pCi/g		*-0.17*	3/25/11 02:35 p		414.1	GER15$1
								-0.59			g	
AMERICIUM 241	***3.25E-03***	U	2.6E-02	2.6E-02	4.54E-02	pCi/g		*0.07*	3/25/11 02:35 p		414.1	GER15$1
								0.25			g	
CO-60	***-8.16E-03***	U	1.5E-02	1.5E-02	2.63E-02	pCi/g		*-0.31*	3/25/11 02:35 p		414.1	GER15$1
							5.00E-02	*-(1.1)*			g	
CS-137	***-4.21E-03***	U	1.5E-02	1.5E-02	2.58E-02	pCi/g		*-0.16*	3/25/11 02:35 p		414.1	GER15$1
							1.00E-01	*-0.56*			g	
EU-152	***1.19E-02***	U	4.0E-02	4.0E-02	7.15E-02	pCi/g		*0.17*	3/25/11 02:35 p		414.1	GER15$1
							1.00E-01	*0.59*			g	
EU-154	***4.37E-03***	U	4.4E-02	4.4E-02	8.03E-02	pCi/g		*0.05*	3/25/11 02:35 p		414.1	GER15$1
							1.00E-01	*0.2*			g	
EU-155	***5.40E-02***	U	3.8E-02	3.8E-02	6.67E-02	pCi/g		*0.81*	3/25/11 02:35 p		414.1	GER15$1
							1.00E-01	*(2.8)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35J1AF			**Report DB ID:** 9MF35J10					
PU-238	***0.00E+00***	U	0.0E+00	8.5E-02	1.59E-01	pCi/g	84%	*0.*	3/30/11 04:20 p		1.02	ALP128
						2.21E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	8.5E-02	1.59E-01	pCi/g	84%	*0.*	3/30/11 04:20 p		1.02	ALP128
						2.21E-02	1.00E+00	*0.*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35J1AC			**Report DB ID:** 9MF35J10					

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:35:00 PM
Lot-Sample No.:	J1C230604-6	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN9	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***1.49E-01***	U	1.4E-01	1.4E-01	1.91E-01	pCi/g	87%	*0.78*	4/2/11 08:52 a		0.99	ALP3
						5.71E-02	1.00E+00	*(2.1)*			g	
U-235	***-1.28E-02***	U	5.7E-02	5.7E-02	1.65E-01	pCi/g	87%	*-0.08*	4/2/11 08:52 a		0.99	ALP3
						4.42E-02	1.00E+00	*-0.45*			g	
U-238	***2.00E-01***	U	1.6E-01	1.7E-01	2.05E-01	pCi/g	87%	*0.97*	4/2/11 08:52 a		0.99	ALP3
						6.43E-02	1.00E+00	*(2.4)*			g	
							Ratio U-234/238 = 0.7					
Batch: 1083135	C14_CHEM_LSC			Work Order:	MF35J1AJ		Report DB ID: 9MF35J10					
C-14	***1.35E-01***	U	1.9E-01	2.1E-01	4.57E-01	pCi/g	100%	*0.3*	4/4/11 10:36 p		5.018	LSC4
						2.15E-01	5.00E+01	*(1.3)*			g	
Batch: 1083136	NI63_LSC			Work Order:	MF35J1AE		Report DB ID: 9MF35J10					
NI-63	***-9.71E+00***	U	5.5E+00	6.6E+00	1.50E+01	pCi/g	98%	*-0.65*	4/3/11 08:56 a		0.24	LSC3
						7.04E+00	3.00E+01	*-(3.)*			g	
Batch: 1083137	906.0_H3_LSC			Work Order:	MF35J1AG		Report DB ID: 9MF35J10					
H-3	***4.28E-02***		7.8E-03	8.3E-03	1.50E-02	pCi/g	100%	*(2.9)*	4/2/11 04:02 p		114.3	LSC8
						7.12E-03	4.00E+02	*(10.3)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			Work Order:	MF35J1AD		Report DB ID: 9MF35J10					
STRONTIUM	***1.42E-01***	U	9.6E-02	1.0E-01	1.88E-01	pCi/g	53%	*0.76*	4/4/11 06:41 p		6.02	GPC32C
						8.71E-02		*(2.8)*			g	
Batch: 1085028	7196_CR6			Work Order:	MF35J1AA		Report DB ID: 9MF35J10					
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:35:00 PM
Lot-Sample No.:	J1C230604-6	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN9	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 1:40:00 PM
Lot-Sample No.:	J1C230604-7	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP0	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35K1AH			**Report DB ID:** 9MF35K10					
AG-108M	***1.62E-03***	U	1.2E-02	1.2E-02	2.08E-02	pCi/g		*0.08*	3/25/11 06:02 p		406.4	GER10$1
								0.27			g	
AMERICIUM 241	***-3.12E-02***	U	6.4E-02	6.4E-02	1.06E-01	pCi/g		*-0.29*	3/25/11 06:02 p		406.4	GER10$1
								-0.98			g	
CO-60	***4.76E-03***	U	1.2E-02	1.2E-02	2.28E-02	pCi/g		*0.21*	3/25/11 06:02 p		406.4	GER10$1
							5.00E-02	*0.76*			g	
CS-137	***1.91E-03***	U	1.4E-02	1.4E-02	2.50E-02	pCi/g		*0.08*	3/25/11 06:02 p		406.4	GER10$1
							1.00E-01	*0.26*			g	
EU-152	***-3.79E-02***	U	6.0E-02	6.0E-02	6.60E-02	pCi/g		*-0.57*	3/25/11 06:02 p		406.4	GER10$1
							1.00E-01	*-(1.3)*			g	
EU-154	***-4.27E-02***	U	4.3E-02	4.3E-02	6.86E-02	pCi/g		*-0.62*	3/25/11 06:02 p		406.4	GER10$1
							1.00E-01	*-(2.)*			g	
EU-155	***-8.41E-04***	U	4.8E-02	4.8E-02	8.06E-02	pCi/g		*-0.01*	3/25/11 06:02 p		406.4	GER10$1
							1.00E-01	*-0.03*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35K1AF			**Report DB ID:** 9MF35K10					
PU-238	***-2.27E-03***	U	9.1E-02	9.1E-02	1.70E-01	pCi/g	78%	*-0.01*	3/30/11 04:21 p		1.0	ALP130
						2.36E-02	1.00E+00	*-0.05*			g	
PU239/40	***-2.27E-03***	U	9.1E-02	9.1E-02	1.70E-01	pCi/g	78%	*-0.01*	3/30/11 04:21 p		1.0	ALP130
						2.36E-02	1.00E+00	*-0.05*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35K1AC			**Report DB ID:** 9MF35K10					

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:40:00 PM
Lot-Sample No.:	J1C230604-7	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP0	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***1.85E-01***		1.5E-01	1.5E-01	1.45E-01	pCi/g	85%	*(1.3)*	4/2/11 08:52 a		1.02	ALP4
						3.53E-02	1.00E+00	*(2.4)*			g	
U-235	***-5.55E-03***	U	5.6E-02	5.6E-02	1.32E-01	pCi/g	85%	*-0.04*	4/2/11 08:52 a		1.02	ALP4
						2.88E-02	1.00E+00	*-0.2*			g	
U-238	***1.84E-01***		1.5E-01	1.5E-01	1.51E-01	pCi/g	85%	*(1.2)*	4/2/11 08:52 a		1.02	ALP4
						3.81E-02	1.00E+00	*(2.4)*			g	
							Ratio U-234/238 = 1.0					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35K1AJ		**Report DB ID:**	9MF35K10				
C-14	***-1.04E-02***	U	1.8E-01	2.0E-01	4.56E-01	pCi/g	100%	*-0.02*	4/4/11 10:59 p		5.021	LSC4
						2.15E-01	5.00E+01	*-0.1*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35K1AE		**Report DB ID:**	9MF35K10				
NI-63	***-5.57E+00***	U	5.6E+00	6.7E+00	1.46E+01	pCi/g	96%	*-0.38*	4/3/11 09:19 a		0.25	LSC3
						6.88E+00	3.00E+01	*-(1.7)*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35K1AG		**Report DB ID:**	9MF35K10				
H-3	***1.01E+00***		2.4E-02	3.8E-02	1.53E-02	pCi/g	100%	*(65.9)*	4/2/11 06:45 p		113.4	LSC8
						7.29E-03	4.00E+02	*(53.4)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35K1AD		**Report DB ID:**	9MF35K10				
STRONTIUM	***7.02E-02***	U	1.0E-01	1.1E-01	2.28E-01	pCi/g	49%	*0.31*	4/4/11 06:41 p		6.03	GPC32D
						1.07E-01		*(1.3)*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35K1AA		**Report DB ID:**	9MF35K10				
HEXCHROME	***1.51E-01***	U		0.0E+00	1.51E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
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V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:40:00 PM
Lot-Sample No.:	J1C230604-7	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP0	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
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V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0133	**Collection Date:**	3/22/2011 1:45:00 PM
Lot-Sample No.:	**J1C230604-8**	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	**J1FJP1**	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35L1AH			**Report DB ID:** 9MF35L10					
AG-108M	***-1.40E-02***	U	1.5E-02	1.5E-02	2.38E-02	pCi/g		*-0.59*	3/25/11 06:03 p		380.0	GER7$1
								-(1.9)			g	
AMERICIUM 241	***5.99E-03***	U	5.8E-02	5.8E-02	1.00E-01	pCi/g		*0.06*	3/25/11 06:03 p		380.0	GER7$1
								0.21			g	
CO-60	***-6.58E-03***	U	1.8E-02	1.8E-02	3.05E-02	pCi/g		*-0.22*	3/25/11 06:03 p		380.0	GER7$1
							5.00E-02	*-0.74*			g	
CS-137	***-6.88E-03***	U	1.9E-02	1.9E-02	3.21E-02	pCi/g		*-0.21*	3/25/11 06:03 p		380.0	GER7$1
							1.00E-01	*-0.73*			g	
EU-152	***3.51E-02***	U	4.7E-02	4.7E-02	8.32E-02	pCi/g		*0.42*	3/25/11 06:03 p		380.0	GER7$1
							1.00E-01	*(1.5)*			g	
EU-154	***-3.07E-02***	U	6.3E-02	6.3E-02	1.07E-01	pCi/g		*-0.29*	3/25/11 06:03 p		380.0	GER7$1
							1.00E-01	*-0.97*			g	
EU-155	***4.17E-02***	U	4.4E-02	4.4E-02	7.66E-02	pCi/g		*0.54*	3/25/11 06:03 p		380.0	GER7$1
							1.00E-01	*(1.9)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35L1AF			**Report DB ID:** 9MF35L10					
PU-238	***-1.86E-03***	U	7.4E-02	7.4E-02	1.39E-01	pCi/g	91%	*-0.01*	3/30/11 07:01 p		0.99	ALP46
						1.93E-02	1.00E+00	*-0.05*			g	
PU239/40	***-3.72E-03***	U	7.4E-02	7.4E-02	1.55E-01	pCi/g	91%	*-0.02*	3/30/11 07:01 p		0.99	ALP46
						2.73E-02	1.00E+00	*-0.1*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35L1AC			**Report DB ID:** 9MF35L10					

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:45:00 PM
Lot-Sample No.:	J1C230604-8	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP1	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***1.66E-01***		1.3E-01	1.3E-01	1.10E-01	pCi/g	90%	*(1.5)*	4/2/11 08:52 a		1.03	ALP9
						2.19E-02	1.00E+00	*(2.5)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.9E-02	9.11E-02	pCi/g	90%	*0.*	4/2/11 08:52 a		1.03	ALP9
						1.26E-02	1.00E+00	*0.*			g	
U-238	***9.59E-02***	U	9.7E-02	9.9E-02	9.11E-02	pCi/g	90%	*(1.1)*	4/2/11 08:52 a		1.03	ALP9
						1.26E-02	1.00E+00	*(1.9)*			g	
							Ratio U-234/238 = 1.7					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35L1AJ		**Report DB ID:**	9MF35L10				
C-14	***5.40E-01***		2.1E-01	2.3E-01	4.56E-01	pCi/g	100%	*(1.2)*	4/4/11 11:21 p		5.026	LSC4
						2.15E-01	5.00E+01	*(4.7)*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35L1AE		**Report DB ID:**	9MF35L10				
NI-63	***-4.26E+00***	U	5.0E+00	6.0E+00	1.30E+01	pCi/g	97%	*-0.33*	4/3/11 09:41 a		0.28	LSC3
						6.12E+00	3.00E+01	*-(1.4)*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35L1AG		**Report DB ID:**	9MF35L10				
H-3	***1.37E-02***	U	8.9E-03	9.5E-03	2.05E-02	pCi/g	100%	*0.67*	4/2/11 08:07 p		109.9	LSC8
						9.74E-03	4.00E+02	*(2.9)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35L1AD		**Report DB ID:**	9MF35L10				
STRONTIUM	***-4.28E-02***	U	7.0E-02	7.1E-02	1.79E-01	pCi/g	62%	*-0.24*	4/4/11 06:48 p		6.05	GPC26B
						8.38E-02		*-(1.2)*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35L1AA		**Report DB ID:**	9MF35L10				
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
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MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:45:00 PM
Lot-Sample No.:	J1C230604-8	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP1	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:40:00 PM
Lot-Sample No.:	J1C230604-9	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP2	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35M1AH			**Report DB ID:** 9MF35M10					
AG-108M	***-1.32E-03***	U	9.4E-03	9.4E-03	1.62E-02	pCi/g		*-0.08*	3/25/11 06:04 p		398.9	GER11$1
								-0.28			g	
AMERICIUM 241	***-4.35E-02***	U	7.6E-02	7.6E-02	1.24E-01	pCi/g		*-0.35*	3/25/11 06:04 p		398.9	GER11$1
								-(1.1)			g	
CO-60	***3.38E-02***	U	1.6E-02	1.6E-02	3.13E-02	pCi/g		*(1.1)*	3/25/11 06:04 p		398.9	GER11$1
							5.00E-02	*(4.2)*			g	
CS-137	***4.08E-02***		2.4E-02	2.4E-02	2.28E-02	pCi/g		*(1.8)*	3/25/11 06:04 p		398.9	GER11$1
							1.00E-01	*(3.4)*			g	
EU-152	***1.48E-02***	U	3.3E-02	3.3E-02	5.70E-02	pCi/g		*0.26*	3/25/11 06:04 p		398.9	GER11$1
							1.00E-01	*0.9*			g	
EU-154	***2.06E-02***	U	4.3E-02	4.3E-02	7.81E-02	pCi/g		*0.26*	3/25/11 06:04 p		398.9	GER11$1
							1.00E-01	*0.95*			g	
EU-155	***1.65E-02***	U	3.4E-02	3.4E-02	5.89E-02	pCi/g		*0.28*	3/25/11 06:04 p		398.9	GER11$1
							1.00E-01	*0.98*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35M1AF			**Report DB ID:** 9MF35M10					
PU-238	***0.00E+00***	U	0.0E+00	7.1E-02	1.33E-01	pCi/g	82%	*0.*	3/30/11 07:01 p		1.0	ALP121
						1.86E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.1E-02	1.33E-01	pCi/g	82%	*0.*	3/30/11 07:01 p		1.0	ALP121
						1.85E-02	1.00E+00	*0.*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35M1AC			**Report DB ID:** 9MF35M10					

TestAmerica
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V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:40:00 PM
Lot-Sample No.:	J1C230604-9	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP2	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***2.96E-01***		1.7E-01	1.8E-01	9.60E-02	pCi/g	93%	*(3.1)*	4/2/11 08:52 a		1.03	ALP11
						1.69E-02	1.00E+00	*(3.4)*			g	
U-235	***-1.15E-03***	U	4.6E-02	4.6E-02	8.61E-02	pCi/g	93%	*-0.01*	4/2/11 08:52 a		1.03	ALP11
						1.20E-02	1.00E+00	*-0.05*			g	
U-238	***2.72E-01***		1.6E-01	1.7E-01	1.04E-01	pCi/g	93%	*(2.6)*	4/2/11 08:52 a		1.03	ALP11
						2.07E-02	1.00E+00	*(3.2)*			g	
							Ratio U-234/238 = 1.1					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35M1AJ		**Report DB ID:** 9MF35M10					
C-14	***2.96E-02***	U	1.9E-01	2.1E-01	4.58E-01	pCi/g	100%	*0.06*	4/4/11 11:44 p		5.004	LSC4
						2.16E-01	5.00E+01	*0.29*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35M1AE		**Report DB ID:** 9MF35M10					
NI-63	***-2.39E+00***	U	6.1E+00	7.2E+00	1.53E+01	pCi/g	96%	*-0.16*	4/3/11 10:04 a		0.24	LSC3
						7.19E+00	3.00E+01	*-0.66*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35M1AG		**Report DB ID:** 9MF35M10					
H-3	***3.20E-02***		6.8E-03	7.2E-03	1.35E-02	pCi/g	100%	*(2.4)*	4/2/11 09:29 p		134.7	LSC8
						6.44E-03	4.00E+02	*(8.9)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35M1AD		**Report DB ID:** 9MF35M10					
STRONTIUM	***5.28E-02***	U	7.3E-02	7.5E-02	1.60E-01	pCi/g	63%	*0.33*	4/4/11 06:48 p		6.02	GPC26C
						7.38E-02		*(1.4)*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35M1AA		**Report DB ID:** 9MF35M10					
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
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V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 2:40:00 PM
Lot-Sample No.:	J1C230604-9	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP2	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica Laboratories, Inc.

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TestAmerica
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V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:25:00 PM
Lot-Sample No.:	J1C230604-10	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP3	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35N1AH			**Report DB ID:** 9MF35N10					
AG-108M	***6.20E-03***	U	1.3E-02	1.3E-02	2.36E-02	pCi/g		*0.26*	3/25/11 06:05 p		410.9	GER15$1
								0.93			g	
AMERICIUM 241	***2.16E-02***	U	2.9E-02	2.9E-02	5.00E-02	pCi/g		*0.43*	3/25/11 06:05 p		410.9	GER15$1
								(1.5)			g	
CO-60	***-6.06E-03***	U	1.6E-02	1.6E-02	2.77E-02	pCi/g		*-0.22*	3/25/11 06:05 p		410.9	GER15$1
							5.00E-02	*-0.76*			g	
CS-137	***1.94E-02***	U	1.8E-02	1.8E-02	3.25E-02	pCi/g		*0.6*	3/25/11 06:05 p		410.9	GER15$1
							1.00E-01	*(2.2)*			g	
EU-152	***-4.37E-03***	U	4.3E-02	4.3E-02	7.35E-02	pCi/g		*-0.06*	3/25/11 06:05 p		410.9	GER15$1
							1.00E-01	*-0.21*			g	
EU-154	***2.46E-02***	U	5.0E-02	5.0E-02	9.36E-02	pCi/g		*0.26*	3/25/11 06:05 p		410.9	GER15$1
							1.00E-01	*0.98*			g	
EU-155	***9.73E-03***	U	4.1E-02	4.1E-02	6.98E-02	pCi/g		*0.14*	3/25/11 06:05 p		410.9	GER15$1
							1.00E-01	*0.47*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35N1AF			**Report DB ID:** 9MF35N10					
PU-238	***0.00E+00***	U	0.0E+00	8.4E-02	1.57E-01	pCi/g	83%	*0.*	3/30/11 07:02 p		1.01	ALP123
						2.18E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	8.4E-02	1.57E-01	pCi/g	83%	*0.*	3/30/11 07:02 p		1.01	ALP123
						2.17E-02	1.00E+00	*0.*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35N1AC			**Report DB ID:** 9MF35N10					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:25:00 PM
Lot-Sample No.:	J1C230604-10	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP3	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***2.90E-01***		1.8E-01	1.9E-01	1.09E-01	pCi/g	80%	*(2.7)*	4/2/11 08:52 a		0.99	ALP12
						1.51E-02	1.00E+00	*(3.)*			g	
U-235	***-1.46E-03***	U	5.8E-02	5.8E-02	1.09E-01	pCi/g	80%	*-0.01*	4/2/11 08:52 a		0.99	ALP12
						1.51E-02	1.00E+00	*-0.05*			g	
U-238	***2.58E-01***		1.7E-01	1.8E-01	1.21E-01	pCi/g	80%	*(2.1)*	4/2/11 08:52 a		0.99	ALP12
						2.14E-02	1.00E+00	*(2.8)*			g	
							Ratio U-234/238 = 1.1					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35N1AJ		**Report DB ID:**	9MF35N10				
C-14	***2.79E-01***	U	2.0E-01	2.2E-01	4.58E-01	pCi/g	100%	*0.61*	4/5/11 12:06 a		5.012	LSC4
						2.16E-01	5.00E+01	*(2.6)*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35N1AE		**Report DB ID:**	9MF35N10				
NI-63	***-7.76E+00***	U	5.7E+00	6.8E+00	1.52E+01	pCi/g	96%	*-0.51*	4/3/11 10:27 a		0.24	LSC3
						7.16E+00	3.00E+01	*-(2.3)*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35N1AG		**Report DB ID:**	9MF35N10				
H-3	***2.44E-02***		6.7E-03	7.0E-03	1.38E-02	pCi/g	100%	*(1.8)*	4/2/11 10:51 p		156.5	LSC8
						6.57E-03	4.00E+02	*(6.9)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35N1AD		**Report DB ID:**	9MF35N10				
STRONTIUM	***2.80E-02***	U	7.3E-02	7.3E-02	1.66E-01	pCi/g	61%	*0.17*	4/4/11 06:48 p		6.0	GPC26D
						7.69E-02		*0.76*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35N1AA		**Report DB ID:**	9MF35N10				
HEXCHROME	***1.52E-01***	U		0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
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V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 2:25:00 PM
Lot-Sample No.:	J1C230604-10	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP3	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:50:00 PM
Lot-Sample No.:	J1C230604-11	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP4	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35P1AH			**Report DB ID:** 9MF35P10					
AG-108M	***6.53E-03***	U	1.2E-02	1.2E-02	2.22E-02	pCi/g		*0.29*	3/25/11 11:43 p		414.8	GER15$1
								(1.)			g	
AMERICIUM 241	***-9.71E-03***	U	2.7E-02	2.7E-02	4.59E-02	pCi/g		*-0.21*	3/25/11 11:43 p		414.8	GER15$1
								-0.72			g	
CO-60	***4.33E-03***	U	1.5E-02	1.5E-02	2.78E-02	pCi/g		*0.16*	3/25/11 11:43 p		414.8	GER15$1
							5.00E-02	*0.58*			g	
CS-137	***9.39E-02***		4.6E-02	4.6E-02	2.93E-02	pCi/g		*(3.2)*	3/25/11 11:43 p		414.8	GER15$1
							1.00E-01	*(4.1)*			g	
EU-152	***1.74E-01***	U	7.9E-02	7.9E-02	9.97E-02	pCi/g		*(1.7)*	3/25/11 11:43 p		414.8	GER15$1
							1.00E-01	*(4.4)*			g	
EU-154	***3.21E-02***	U	4.6E-02	4.6E-02	8.79E-02	pCi/g		*0.37*	3/25/11 11:43 p		414.8	GER15$1
							1.00E-01	*(1.4)*			g	
EU-155	***2.02E-02***	U	3.9E-02	3.9E-02	6.66E-02	pCi/g		*0.3*	3/25/11 11:43 p		414.8	GER15$1
							1.00E-01	*(1.)*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35P1AF			**Report DB ID:** 9MF35P10					
PU-238	***0.00E+00***	U	0.0E+00	8.4E-02	1.57E-01	pCi/g	81%	*0.*	3/30/11 07:02 p		0.99	ALP124
						2.18E-02	1.00E+00	*0.*			g	
PU239/40	***3.98E-02***	U	8.4E-02	8.4E-02	1.57E-01	pCi/g	81%	*0.25*	3/30/11 07:02 p		0.99	ALP124
						2.18E-02	1.00E+00	*0.94*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35P1AC			**Report DB ID:** 9MF35P10					

TestAmerica
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V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:50:00 PM
Lot-Sample No.:	J1C230604-11	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP4	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***2.10E-01***		1.4E-01	1.5E-01	9.86E-02	pCi/g	99%	*(2.1)*	4/2/11 08:52 a		1.03	ALP71
						1.74E-02	1.00E+00	*(2.8)*			g	
U-235	***-4.73E-04***	U	4.7E-02	4.7E-02	7.95E-02	pCi/g	99%	*-0.01*	4/2/11 08:52 a		1.03	ALP71
						7.77E-03	1.00E+00	*-0.02*			g	
U-238	***1.17E-01***		1.1E-01	1.1E-01	7.95E-02	pCi/g	99%	*(1.5)*	4/2/11 08:52 a		1.03	ALP71
						7.77E-03	1.00E+00	*(2.2)*			g	
							Ratio U-234/238 = 1.8					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35P1AJ		**Report DB ID:**	9MF35P10				
C-14	***4.90E-02***	U	1.9E-01	2.1E-01	4.58E-01	pCi/g	100%	*0.11*	4/5/11 12:52 a		5.01	LSC4
						2.16E-01	5.00E+01	*0.48*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35P1AE		**Report DB ID:**	9MF35P10				
NI-63	***2.26E+00***	U	6.0E+00	7.2E+00	1.46E+01	pCi/g	96%	*0.16*	4/3/11 11:13 a		0.25	LSC3
						6.86E+00	3.00E+01	*0.63*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35P1AG		**Report DB ID:**	9MF35P10				
H-3	***6.14E-03***	U	6.2E-03	6.6E-03	1.43E-02	pCi/g	100%	*0.43*	4/3/11 01:34 a		117.7	LSC8
						6.78E-03	4.00E+02	*(1.9)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35P1AD		**Report DB ID:**	9MF35P10				
STRONTIUM	***1.00E-01***	U	7.9E-02	8.3E-02	1.60E-01	pCi/g	62%	*0.63*	4/4/11 06:48 p		6.08	GPC27A
						7.41E-02		*(2.4)*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35P1AA		**Report DB ID:**	9MF35P10				
HEXCHROME	***1.51E-01***	U		0.0E+00	1.51E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
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V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:50:00 PM
Lot-Sample No.:	J1C230604-11	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP4	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	**TestAmerica**	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:55:00 PM
Lot-Sample No.:	**J1C230604-12**	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	**J1FJP5**	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35Q1AH			**Report DB ID:** 9MF35Q10					
AG-108M	***-9.97E-03***	U	1.3E-02	1.3E-02	2.12E-02	pCi/g		*-0.47*	3/25/11 11:45 p		419.7	GER10$1
								-(1.5)			g	
AMERICIUM 241	***-9.35E-02***	U	7.0E-02	7.0E-02	1.12E-01	pCi/g		*-0.83*	3/25/11 11:45 p		419.7	GER10$1
								-(2.7)			g	
CO-60	***-8.57E-03***	U	1.5E-02	1.5E-02	2.46E-02	pCi/g		*-0.35*	3/25/11 11:45 p		419.7	GER10$1
							5.00E-02	*-(1.2)*			g	
CS-137	***2.91E-02***	U	1.7E-02	1.7E-02	3.11E-02	pCi/g		*0.93*	3/25/11 11:45 p		419.7	GER10$1
							1.00E-01	*(3.4)*			g	
EU-152	***9.76E-02***	U	5.7E-02	5.7E-02	7.59E-02	pCi/g		*(1.3)*	3/25/11 11:45 p		419.7	GER10$1
							1.00E-01	*(3.4)*			g	
EU-154	***4.25E-03***	U	4.7E-02	4.7E-02	8.23E-02	pCi/g		*0.05*	3/25/11 11:45 p		419.7	GER10$1
							1.00E-01	*0.18*			g	
EU-155	***-1.65E-02***	U	5.0E-02	5.0E-02	8.32E-02	pCi/g		*-0.2*	3/25/11 11:45 p		419.7	GER10$1
							1.00E-01	*-0.66*			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:** MF35Q1AF			**Report DB ID:** 9MF35Q10					
PU-238	***-1.56E-03***	U	6.2E-02	6.2E-02	1.16E-01	pCi/g	92%	*-0.01*	3/30/11 07:03 p		1.0	ALP125
						1.61E-02	1.00E+00	*-0.05*			g	
PU239/40	***-1.55E-03***	U	6.2E-02	6.2E-02	1.16E-01	pCi/g	92%	*-0.01*	3/30/11 07:03 p		1.0	ALP125
						1.61E-02	1.00E+00	*-0.05*			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:** MF35Q1AC			**Report DB ID:** 9MF35Q10					

TestAmerica
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V5.2.12 A2002

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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 2:55:00 PM
Lot-Sample No.:	J1C230604-12	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP5	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
U-234	***1.80E-01***		1.5E-01	1.6E-01	1.41E-01	pCi/g	88%	*(1.3)*	4/2/11 08:53 a		1.03	ALP84
						2.86E-02	1.00E+00	*(2.3)*			g	
U-235	***-1.85E-03***	U	6.2E-02	6.2E-02	1.18E-01	pCi/g	88%	*-0.02*	4/2/11 08:53 a		1.03	ALP84
						1.75E-02	1.00E+00	*-0.06*			g	
U-238	***1.19E-01***	U	1.2E-01	1.3E-01	1.37E-01	pCi/g	88%	*0.87*	4/2/11 08:53 a		1.03	ALP84
						2.68E-02	1.00E+00	*(1.9)*			g	
							Ratio U-234/238 = 1.5					
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF35Q1AJ		**Report DB ID:**	9MF35Q10				
C-14	***3.58E-01***	U	2.0E-01	2.2E-01	4.56E-01	pCi/g	100%	*0.79*	4/5/11 01:14 a		5.026	LSC4
						2.15E-01	5.00E+01	*(3.2)*			g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF35Q1AE		**Report DB ID:**	9MF35Q10				
NI-63	***-5.64E-01***	U	6.0E+00	7.2E+00	1.50E+01	pCi/g	94%	*-0.04*	4/3/11 11:36 a		0.25	LSC3
						7.07E+00	3.00E+01	*-0.16*			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF35Q1AG		**Report DB ID:**	9MF35Q10				
H-3	***4.63E-03***	U	7.2E-03	7.7E-03	1.72E-02	pCi/g	100%	*0.27*	4/3/11 02:56 a		101.2	LSC8
						8.16E-03	4.00E+02	*(1.2)*			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF35Q1AD		**Report DB ID:**	9MF35Q10				
STRONTIUM	***7.71E-02***	U	8.1E-02	8.3E-02	1.72E-01	pCi/g	65%	*0.45*	4/4/11 06:48 p		5.98	GPC27B
						8.01E-02		*(1.8)*			g	
Batch: 1085028	7196_CR6			**Work Order:**	MF35Q1AA		**Report DB ID:**	9MF35Q10				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	3/26/11 10:30 a		2.5	
							1.55E-01	*N/A*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 2:55:00 PM
Lot-Sample No.:	J1C230604-12	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP5	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 17 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 2:55:00 PM
Lot-Sample No.:	J1C230604-12	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP5	COC No. :	RC-074-211	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

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TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 12:10:00 PM
Lot-Sample No.:	J1C230604-1	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN4	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1085028	7196_CR6			**Work Order:** MF35D1AN		**Report DB ID:** MF35D1ER			**Orig Sa DB ID:** 9MF35D10			
HEXCHROME	1.52E-01	U		0.0E+00	1.52E-01	mg/kg	N/A	(1.)	3/26/11 10:30 a		2.5	
	1.47E-01	U	**RPD**	**3.3**		3.50E-01		N/A			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 12:10:00 PM
Lot-Sample No.:	J1C230604-1	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN4 DUP	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083130	GAMMA_GS			**Work Order:** MF35D1AK		**Report DB ID:** MF35D1KR			**Orig Sa DB ID:** 9MF35D10			
AG-108M	1.09E-03	U	1.3E-02	1.3E-02	2.24E-02	pCi/g		0.05	3/25/11 02:33 p		349.8	GER10$1
	2.88E-03	U	**RPD**	**90.4**				0.17			g	
AMERICIUM 241	1.10E-02	U	6.7E-02	6.7E-02	1.14E-01	pCi/g		0.1	3/25/11 02:33 p		349.8	GER10$1
	-1.62E-02	U	**RPD**	**-1050.6**				0.33			g	
CO-60	-5.01E-03	U	1.4E-02	1.4E-02	2.47E-02	pCi/g		-0.2	3/25/11 02:33 p		349.8	GER10$1
	1.15E-03	U	**RPD**	**-319.6**		5.00E-02		-0.69			g	
CS-137	5.13E-03	U	1.6E-02	1.6E-02	2.79E-02	pCi/g		0.18	3/25/11 02:33 p		349.8	GER10$1
	5.73E-03	U	**RPD**	**10.9**		1.00E-01		0.65			g	
EU-152	-4.70E-02	U	6.1E-02	6.1E-02	6.97E-02	pCi/g		-0.67	3/25/11 02:33 p		349.8	GER10$1
	-8.78E-04	U	**RPD**	**-192.7**		1.00E-01		-(1.5)			g	
EU-154	-8.43E-03	U	4.7E-02	4.7E-02	8.13E-02	pCi/g		-0.1	3/25/11 02:33 p		349.8	GER10$1
	1.07E-02	U	**RPD**	**1666.0**		1.00E-01		-0.36			g	
EU-155	-2.83E-02	U	5.0E-02	5.0E-02	8.23E-02	pCi/g		-0.34	3/25/11 02:33 p		349.8	GER10$1
	3.63E-02	U	**RPD**	**1620.6**		1.00E-01		-(1.1)			g	

No. of Results: 7 **Comments:**

TestAmerica rptSTLRchDupV5.2 .12 A2002

RPD - Relative Percent Difference.

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

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

TestAmerica Laboratories, Inc.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 12:15:00 PM
Lot-Sample No.:	J1C230604-2	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN5 DUP	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083132	PUISO_PLATE_AEA			Work Order: MF35E1AK		Report DB ID: MF35E1KR			Orig Sa DB ID: 9MF35E10			
PU-238	0.00E+00	U	0.0E+00	9.9E-02	1.86E-01	pCi/g	70%	0.	3/30/11 04:18 p		1.01	ALP123
	0.00E+00	U	RPD			1.00E+00		0.			g	
PU239/40	4.95E-02	U	9.9E-02	1.0E-01	1.86E-01	pCi/g	70%	0.27	3/30/11 04:18 p		1.01	ALP123
	2.92E-02	U	RPD 51.6			1.00E+00		0.99			g	

Alpha Spec Result Sum = 5.0E-02

No. of Results: 2 Comments:

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 12:20:00 PM
Lot-Sample No.:	J1C230604-3	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN6 DUP	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083133	UISO_IE_PLATE_AEA			Work Order: MF35F1AK		Report DB ID: MF35F1KR			Orig Sa DB ID: 9MF35F10			
U-234	8.62E-02	U	8.7E-02	8.9E-02	8.19E-02	pCi/g	101%	(1.1)	4/2/11 07:49 a		1.05	ALP12
	9.04E-02	U	RPD 4.8			1.00E+00		(1.9)			g	
U-235	-1.10E-03	U	4.4E-02	4.4E-02	8.19E-02	pCi/g	101%	-0.01	4/2/11 07:49 a		1.05	ALP12
	6.84E-02	U	RPD 206.5			1.00E+00		-0.05			g	
U-238	1.28E-01		1.1E-01	1.1E-01	9.85E-02	pCi/g	101%	(1.3)	4/2/11 07:49 a		1.05	ALP12
	1.59E-01		RPD 21.8			1.00E+00		(2.3)			g	

Ratio U-234/238 = 0.7 *Alpha Spec Result Sum = 2.1E-01*

60

No. of Results: 3 Comments:

TestAmerica rptSTLRchDupV5.2 .12 A2002

RPD - Relative Percent Difference.

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

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

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 12:25:00 PM
Lot-Sample No.:	J1C230604-4	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN7 DUP	COC No. :	RC-074-211	Matrix:	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083135	C14_CHEM_LSC			Work Order:	MF35G1AK	Report DB ID:	MF35G1KR		Orig Sa DB ID:	9MF35G10		
C-14	-4.86E-02	U	1.8E-01	2.0E-01	4.56E-01	pCi/g	100%	-0.11	4/4/11 09:51 p		5.023	LSC4
	3.54E-03	U	RPD	-231.4		5.00E+01		-0.49			g	

No. of Results: 1 Comments:

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

TestAmerica Laboratories, Inc.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0133	Collection Date:	3/22/2011 1:30:00 PM
Lot-Sample No.:	J1C230604-5	Report No. :	46144	Received Date:	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN8 DUP	COC No. :	RC-074-211	Matrix:	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083136	NI63_LSC			Work Order: MF35H1AK		Report DB ID: MF35H1KR			Orig Sa DB ID: 9MF35H10			
NI-63	-3.62E+00	U	5.4E+00	6.4E+00	1.37E+01	pCi/g	95%	-0.26	4/3/11 08:33 a		0.27	LSC3
	1.66E+00	U	RPD	-539.3		3.00E+01		-(1.1)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 1:35:00 PM
Lot-Sample No.:	J1C230604-6	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJN9 DUP	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083137	906.0_H3_LSC			**Work Order:** MF35J1AK		**Report DB ID:** MF35J1KR			**Orig Sa DB ID:** 9MF35J10			
H-3	9.81E-03	U	6.9E-03	7.3E-03	1.58E-02	pCi/g	100%	0.62	4/2/11 05:24 p		110.3	LSC8
	4.28E-02		**RPD**	**125.4**		4.00E+02		(2.7)			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0133	**Collection Date:**	3/22/2011 1:40:00 PM
Lot-Sample No.:	J1C230604-7	**Report No. :**	46144	**Received Date:**	3/23/2011 3:50:00 PM
Client Sample ID:	J1FJP0 DUP	**COC No. :**	RC-074-211	**Matrix:**	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF35K1AK		**Report DB ID:** MF35K1KR			**Orig Sa DB ID:** 9MF35K10			
STRONTIUM	6.07E-03	U	1.0E-01	1.0E-01	2.39E-01	pCi/g	49%	0.03	4/4/11 06:48 p		6.05	GPC26A
	7.02E-02	U	**RPD**	**168.2**				0.12			g	

No. of Results: 1 **Comments:**

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II
BLANK RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica
Matrix: SOIL

SDG: JP0133
Report No. : 46144

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1085028	7196_CR6			**Work Order:**	MF75W1AA		**Report DB ID:**	MF75W1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/26/11 10:30 a		2.5	
						1.55E-01		N/A			g	
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF4H31AA		**Report DB ID:**	MF4H31AB				
C-14	2.64E-03	U	4.8E-03	5.2E-03	1.15E-02	pCi/g	100%	0.23	4/5/11 01:37 a		200.0	LSC4
					5.40E-03	5.00E+01		(1.)			g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:**	MF4HX1AA		**Report DB ID:**	MF4HX1AB				
PU-238	0.00E+00	U	0.0E+00	8.3E-02	1.55E-01	pCi/g	92%	0.	3/30/11 07:03 p		1.0	ALP127
					2.15E-02	1.00E+00		0.			g	
PU239/40	0.00E+00	U	0.0E+00	8.3E-02	1.55E-01	pCi/g	92%	0.	3/30/11 07:03 p		1.0	ALP127
					2.15E-02	1.00E+00		0.			g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:**	MF4H11AA		**Report DB ID:**	MF4H11AB				
U-234	-1.44E-02	U	5.3E-02	5.3E-02	1.61E-01	pCi/g	89%	-0.09	4/2/11 09:57 a		1.04	ALP3
					4.52E-02	1.00E+00		-0.54			g	
U-235	-1.05E-02	U	5.3E-02	5.3E-02	1.48E-01	pCi/g	89%	-0.07	4/2/11 09:57 a		1.04	ALP3
					3.85E-02	1.00E+00		-0.4			g	
U-238	-2.23E-02	U	5.3E-02	5.4E-02	1.83E-01	pCi/g	89%	-0.12	4/2/11 09:57 a		1.04	ALP3
					5.62E-02	1.00E+00		-0.83			g	
							Ratio U-234/238 = 0.6					
Batch: 1083136	NI63_LSC			**Work Order:**	MF4H51AA		**Report DB ID:**	MF4H51AB				
NI-63	-3.65E+00	U	6.2E+00	7.4E+00	1.59E+01	pCi/g	88%	-0.23	4/3/11 11:59 a		0.25	LSC3
					7.50E+00	3.00E+01		-0.99			g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF4H61AA		**Report DB ID:**	MF4H61AB				

TestAmerica
rptSTLRchBlank
V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II
BLANK RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica
Matrix: SOIL

SDG: JP0133
Report No. : 46144

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
H-3	8.98E-02		2.1E-02	2.3E-02	4.30E-02	pCi/g	100%	(2.1)	4/3/11 04:18 a		80.0	LSC8
					2.05E-02	4.00E+02		(7.9)			g	
Batch: 1083130	GAMMA_GS			**Work Order:**	MF4HR1AA		**Report DB ID:**	MF4HR1AB				
AG-108M	-9.89E-04	U	1.1E-02	1.1E-02	1.93E-02	pCi/g		-0.05	3/25/11 11:46 p		348.0	GER7$1
								-0.18			g	
AMERICIUM 241	5.30E-03	U	4.3E-02	4.3E-02	7.42E-02	pCi/g		0.07	3/25/11 11:46 p		348.0	GER7$1
								0.25			g	
CO-60	-7.15E-03	U	1.5E-02	1.5E-02	2.52E-02	pCi/g		-0.28	3/25/11 11:46 p		348.0	GER7$1
						5.00E-02		-0.98			g	
CS-137	3.11E-06	U	1.4E-02	1.4E-02	2.55E-02	pCi/g		0.	3/25/11 11:46 p		348.0	GER7$1
						1.00E-01		0.			g	
EU-152	-9.51E-03	U	3.7E-02	3.7E-02	6.35E-02	pCi/g		-0.15	3/25/11 11:46 p		348.0	GER7$1
						1.00E-01		-0.51			g	
EU-154	-3.00E-02	U	3.9E-02	3.9E-02	6.44E-02	pCi/g		-0.47	3/25/11 11:46 p		348.0	GER7$1
						1.00E-01		-(1.5)			g	
EU-155	-5.97E-03	U	3.0E-02	3.0E-02	5.08E-02	pCi/g		-0.12	3/25/11 11:46 p		348.0	GER7$1
						1.00E-01		-0.39			g	
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF4H71AA		**Report DB ID:**	MF4H71AB				
STRONTIUM	4.74E-02	U	6.0E-02	6.2E-02	1.31E-01	pCi/g	94%	0.36	4/4/11 06:48 p		6.05	GPC27C
					6.11E-02			(1.5)			g	

No. of Results: 17 **Comments:**

TestAmerica
rptSTLRchBlank
V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II

LCS RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0133

Report No. : 46144

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1085028	7196_CR6			**Work Order:**	MF75W1AC		**Report DB ID:**	MF75W1AS					
HEXCHROME	1.85E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		93%	3/26/11 10:30 a	2.5	
							Rec Limits:	80	120	-0.1		g	
Batch: 1083135	C14_CHEM_LSC			**Work Order:**	MF4H31AC		**Report DB ID:**	MF4H31CS					
C-14	7.48E+00		4.2E-01	5.3E-01	4.59E-01	pCi/g	100%	7.33E+00	1.2E-01	102%	4/5/11 01:59 a	5.0	LSC4
							Rec Limits:	70	130	0.0		g	
Batch: 1083132	PUISO_PLATE_AEA			**Work Order:**	MF4HX1AC		**Report DB ID:**	MF4HX1CS					
PU239/40	7.42E+00		1.1E+00	2.0E+00	1.57E-01	pCi/g	82%	6.53E+00	2.0E-01	114%	3/30/11 07:04 p	1.05	ALP128
							Rec Limits:	70	130	0.1		g	
Batch: 1083133	UISO_IE_PLATE_AEA			**Work Order:**	MF4H11AC		**Report DB ID:**	MF4H11CS					
U-234	3.31E+00		6.2E-01	9.3E-01	1.62E-01	pCi/g	86%	3.32E+00	1.0E-01	100%	4/2/11 09:57 a	0.98	ALP4
							Rec Limits:	70	130	0.0		g	
U-238	3.60E+00		6.4E-01	9.9E-01	1.56E-01	pCi/g	86%	3.47E+00	1.1E-01	104%	4/2/11 09:57 a	0.98	ALP4
							Rec Limits:	70	130	0.0		g	
Batch: 1083136	NI63_LSC			**Work Order:**	MF4H51AC		**Report DB ID:**	MF4H51CS					
NI-63	5.26E+02		1.9E+01	5.3E+01	1.46E+01	pCi/g	100%	6.35E+02	1.1E+01	83%	4/3/11 12:22 p	0.24	LSC3
							Rec Limits:	70	130	-0.2		g	
Batch: 1083137	906.0_H3_LSC			**Work Order:**	MF4H61AC		**Report DB ID:**	MF4H61CS					
H-3	3.50E-01		2.8E-02	3.1E-02	4.03E-02	pCi/g	100%	3.21E-01	9.6E-03	109%	4/3/11 05:40 a	85.7	LSC8
							Rec Limits:	70	130	0.1		g	
Batch: 1083130	GAMMA_GS			**Work Order:**	MF4HR1AC		**Report DB ID:**	MF4HR1CS					
CS-137	1.12E+00		1.5E-01	1.5E-01	2.73E-02	pCi/g		1.09E+00	1.1E-02	103%	3/25/11 11:48 p	350.1	GER11$1
							Rec Limits:	70	130	0.0		g	

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

rptSTLRchLcs
V5.2.12 A2002

FORM II
LCS RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica
Matrix: SOIL

SDG: JP0133
Report No. : 46144

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 1083139	SRTOT_SEP_PRECIP_GPC			Work Order: MF4H71AC			Report DB ID: MF4H71CS						
STRONTIUM	1.04E+00		1.3E-01	3.0E-01	1.24E-01	pCi/g	94%	1.14E+00	3.1E-02	92%	4/4/11 06:48 p	5.98	GPC27D
							Rec Limits:	70	130	-0.1		g	

No. of Results: 9 Comments:

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

rptSTLRchLcs
V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica **SDG:** JP0133

Lot-Sample No.: J1C230604-1, J1FJN4 **Report No. :** 46144 **Matrix:** SOIL

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 1085028	**Work Order:** MF35D1AL			**Report DB ID:** MF35D1CW			**Orig Sa DB ID:** 9MF35D10					
HEXCHROME	8.41E+00			0.0E+00	1.46E-01	mg/kg	N/A	85.61%	9.82E+00	3/26/11 10:30 a	2.5	7196_CR6
	1.47E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 A2002

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/31/2011 8:46:39 AM

Lot No., Due Date: J1C230604; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083132; RPUISO Pulso by ALP
SDG, Matrix: JP0133; SOIL

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes ✓	No	N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes	No	N/A ✓
4.4 Were spectra reviewed/meet contractual requirements?	Yes ✓	No	N/A
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A

5.0 Other

5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level Lisa Autonson Date 3/31/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083132

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: CRDL = 1.0 pCi/g

Second Level Review: [signature] Date: 3/31/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY - First Level Review

4/4/2011 2:32:22 PM

Lot No., Due Date: J1C230604; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083133; RUISO Uiso by ALP
SDG, Matrix: JP0133; SOIL

1.0 COC

	Yes	No	N/A
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		

2.0 QC Batch

	Yes	No	N/A
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		

3.0 QC & Samples

	Yes	No	N/A
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		

4.0 Raw Data

	Yes	No	N/A
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		

5.0 Other

	Yes	No	N/A
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level [signature] Date 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083133

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie G Date: 4/5/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/5/2011 10:46:40 AM

Lot No., Due Date: J1C230604; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083139; RSRTOT SrTot by GPC
SDG, Matrix: JP0133; SOIL

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level [signature] Date 4/5/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083139

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie Date: 4/5/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/28/2011 11:28:48 AM

Lot No., Due Date: J1C230604; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083130; RGAMMA Gamma by GER
SDG, Matrix: JP0133; SOIL

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes ✓	No	N/A
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes	No ✓	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes	No	N/A ✓
4.4 Were spectra reviewed/meet contractual requirements?	Yes ✓	No	N/A
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes ✓	No	N/A
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:
Elevated Eu MDA's - NCM

First Level [signature] **Date** 3/28/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1083130

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓	✓	
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: CRDL = 0.1 pci/g

See NCM #7

Second Level Review: Rhonda [illegible] Date: 3/28/11

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17858**
NCM Initiated By: Steven Wheland
Date Opened: 03/28/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J1C230604 (1,10,11,12,2,3,4,5,6,7,8,9), J1C240000 (130),
QC Batches: 1083130,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	03/28/2011	Elevated Eu MDA's due to short priority counting times.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	03/28/2011	report data

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/4/2011 5:06:05 PM

Lot No., Due Date: J1C230604; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083137; RTRITIUM H-3 by LSC
SDG, Matrix: JP0133; SOIL

1.0 COC

	Yes	No	N/A
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		

2.0 QC Batch

	Yes	No	N/A
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓

3.0 QC & Samples

	Yes	No	N/A
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		

4.0 Raw Data

	Yes	No	N/A
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		

5.0 Other

	Yes	No	N/A
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Lisa Christenson **Date** 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083137

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie G Date: 4/5/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/6/2011 10:32:39 AM

Lot No., Due Date: J1C230604; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083135; RC14 C-14 by LSC
SDG, Matrix: JP0133; SOIL

1.0 COC

		Yes	No	N/A
1.1	Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		

2.0 QC Batch

		Yes	No	N/A
2.1	Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2	Are the QC appropriate for the analysis included in the batch?	✓		
2.3	Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4	Does the Worksheets include a Tracer Vial label for each sample?			✓

3.0 QC & Samples

		Yes	No	N/A
3.1	Is the blank results, yield, and MDA within contract limits?	✓		
3.2	Is the LCS result, yield, and MDA within contract limits?	✓		
3.3	Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4	Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5	Are the sample yields and MDAs within contract limits?	✓		

4.0 Raw Data

		Yes	No	N/A
4.1	Were results calculated in the correct units?	✓		
4.2	Were analysis volumes entered correctly?	✓		
4.3	Were Yields entered correctly?			✓
4.4	Were spectra reviewed/meet contractual requirements?			✓
4.5	Were raw counts reviewed for anomalies?	✓		

5.0 Other

		Yes	No	N/A
5.1	Are all nonconformances included and noted?			✓
5.2	Are all required forms filled out?	✓		
5.3	Was the correct methodology used?	✓		
5.4	Was transcription checked?	✓		
5.5	Were all calculations checked at a minimum frequency?	✓		
5.6	Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Tra Anderson Date 4/16/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083135

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie C Date: 4/6/11

LS-038B, Rev. 10, 9/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/5/2011 8:51:49 AM

Lot No., Due Date: J1C230604; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083136; RNI63 Ni-63 by LSC
SDG, Matrix: JP0133; SOIL

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes ✓	No	N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A

5.0 Other

5.1 Are all nonconformances included and noted?	Yes ✓	No	N/A
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:
NCM 10-17954

First Level Lisa Anderson Date 4/5/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083136

Review Item	Yes (√)	No (√)	NA (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie C Date: 4/5/11

LS-038B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-17954
NCM Initiated By: Lisa Antonson
Date Opened: 04/05/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: Ni-63 by LSC
Lot #'s (Sample #'s): J1C230604 (1,10,11,12,2,3,4,5,6,7,8,9), J1C240000 (136),
QC Batches: 1083136,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	04/05/2011	Sample MF35E has a result that is more negative than three times the uncertainty

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	04/05/2011	None

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **1085028**

Lab Sample Numbers or SDG: **JP0133**

Method/Test/Parameter: **Cr+6 in SOLID / RL-WC-004**

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?			✓	N/A
2. Were all sample holding times met?	✓			✓
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?	✓			✓
5. ICP only: One serial dilution performed per SDG?			✓	N/A
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	N/A
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	N/A

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
E. Other 1. Are all nonconformances included and noted?			✓	N/A
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

Comments on any "No" response:

Analyst: H R Date: 3-28-11

Second-Level Review: [signature] Date: 3-28-11

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-211	Page 1 of 3

Collector: M BLANKENSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 2		SAF No.: RC-074
Ice Chest No.: N/A	Field Logbook No.: EL-1607-0010 3/22/11	COA: R118D22000	Method of Shipment: HAND DELIVER 3/10/11
Shipped To: 3/10/11 TestAmerica Incorporated, ~~Richland DENVER~~ RICHLAND	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Special Handling and/or Storage

Cool 4 Deg C

Lot #J1C230604
SDG #JP0133
Due: 3-30-11

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None		
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 -- Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen		
Sample No. / Matrix *											
J1FJN4 MF35D SOIL	3/22/11 1210	X	X	X	X	X		X		RCF 27383	
J1FJN5 MF35E SOIL	3/22/11 1215		X	X	X	X	X		X		
J1FJN6 MF35F SOIL	3/22/11 1220		X	X	X	X	X		X		
J1FJN7 MF35G SOIL	3/22/11 1225		X	X	X	X	X		X		
J1FJN8 MF35H SOIL	3/22/11 1330		X	X	X	X	X		X		

J1C230604

88

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MATT BLANKENSHIP	3-22-11 1510	D WOOLERY	3/22/11 1510
D WOOLERY	3/22/11 1730	A. Freier	3-22-11 1730
A. Freier	3-23-11 1550	TALR Cameron Krouse	3-23-11 1550

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-23-11

JP0133

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-211	Page 2 of 3

Collector: M BLANKINSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B D 3/10/11	Data Turnaround: ~~21~~ 7 Days D 3/10/11		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 2		SAF No.: RC-074
Ice Chest No.: N/A	Field Logbook No.: EL-1607-0310 D 3/22/11	COA: R118D22000	Method of Shipment: HAND DELIVER
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Lot#J1C230604
SDG#JP0133
Due 3.30.11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None		
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 -- Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCFSS Shipping Screen		
Sample No.	Matrix *	Sample Date	Sample Time								KCF
J1FJN9 MF35J	SOIL	3/22/11	1335		X	X	X	X	X		X		27383
J1FJP0 MF35L	SOIL	3/22/11	1340		X	X	X	X	X		X		
J1FJP1 MF35L	SOIL	3/22/11	1345		X	X	X	X	X		X		
J1FJP2 MF35M	SOIL	3/22/11	1440		X	X	X	X	X		X		
J1FJP3 MF35N	SOIL	3/22/11	1445		X	X	X	X	X		X		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
M BLANKINSHIP	3-22-11 1510	DWOOLERY	3/22/11 1510
DWOOLERY	3/22/11 1730	A. Freier	3-22-11 1730
A. Freier (WCH)	3-23-11 1550	TALR Cameron Kraps	3-23-11 1550

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-23-11

JP0133

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-211	Page 3 of 3

Collector: M BLANKENSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: 8L / 8B	Data Turnaround: 21 / 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 2		SAF No.: RC-074
Ice Chest No.: N/A	Field Logbook No.: EL-1607-0310	COA: R118D22000	Method of Shipment: HAND DELIVER
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Lot# J1C230604
SDG# JP0133
Due 3-30-11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None		
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 – Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen		
Sample No.	Matrix *	Sample Date	Sample Time								RCF
J1FJP4 MF3	5P SOIL	3/22/11	1450	X	X	X	X	X	X	X	27383
J1FJP5 MF35	Q SOIL	3/22/11	1455	X	X	X	X	X	X	X	

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MARY BLANKENSHIP	3-22-11 1510	DWOOLERY	3/22/11 1510
DWOOLERY	3/22/11 1730	A. Freier	3-22-11 1730
A. Freier	3-23-11 1550	TALR Cameron Kropa	3.23.11 1550

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY EB
DATE 3-23-11

JP0133

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Apex™

Analysis Report for RCF27383

J1FJP4 SAF:RC-074 100D/118-D-2 EXCAVATION AREA 2, EX2-11

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF27383
Sample Description	: J1FJP4 SAF:RC-074 100D/118-D-2 EXCAVATION AREA 2, EX2-11
Sample Type	: 80g pillbox
Sample Size	: 7.700E+01 grams
Facility	: Default
Sample Taken On	: 3/22/2011 2:50:00PM
Acquisition Started	: 3/23/2011 9:44:30AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: GEA2703
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3601.3 seconds
Dead Time	: 0.04 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 2/2/2011
Efficiency Calibration Used Done On	: 2/23/2011
Efficiency Calibration Description	: GEA2703 80gPB 020311EC SN82752-238
Sample Number	: 12866

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.992	9.66E+00	2.26E+00	
TH-232d	0.421	6.11E-01	1.56E-01	

J1C230604

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 3-23-11 1550 GM Screen Result (out) -3 (in) .7 Initials [CK]

Client: WCH SDG #: JP0133 NA [ ] SAF #: RC-074 NA [ ]

Work Order Number: J1C230604 Chain of Custody # RC-074-211

Shipping Container ID: hand delivery NA [ ] Air Bill # _____ NA [CK]

Item 1 through 5 for shipping container only. Initial appropriate response.

1. Custody Seals on shipping container intact? Yes [CK] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [CK] No [ ] No Custody Seal [ ]
3. Chain of Custody record present? Yes [CK] No [ ]
4. Cooler temperature: ON ICE NA [CK] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [CK]

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 12 samples @ 1X JAR 60 MLG & 1X 50 OMLG per
7. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
8. Samples have:
   ___ tape
   CK custody seals (soil)
   ___ hazard labels
   CK appropriate sample labels
9. Samples:
   CK are in good condition
   ___ are broken
   ___ are leaking
   ___ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [CK] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

    RPL ID # of preservative used : _____
11. Sample Location, Sample Collector Listed? * Yes [CK] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [CK]
13. Description of anomalies (include sample numbers): NA [CK] _____

See other side for additional comments

Sample Custodian: Carmen Ryan Date: 3-23-11 1550

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager Brandon Lee Date 3/23/11

LS-023, Rev. 12, 10/10

6/24/2011 8:52:25 PM

Sample Preparation/Analysis

Balance Id:1120373922

27642, Washington Closure Hanford LLC
Mechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(~~ALP015~~) ALP016
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD 3-30-11

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011 JP0133

Sep1 DT/Tm Tech: Co ppt

Batch: 1083132 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

GEQ Batch, Test: None All Tests: DWEA, 1083130 AXTA, 1083132 6ASO, 1083133 7SSR, 1083135 5SS3, 1083136 AFS4, 1083137 STS6, 1083139 CHTH,

Prep Tech: BouslaughP,WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AF J1C230604-1-SAMP 03/22/2011 12:10		1.05g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12117 03/17/11,pd 01/01/10,r #Containers: 2	50		Scr:	Alpha:	Beta:
2 MF35E-1-AF J1C230604-2-SAMP 03/22/2011 12:15		1.00g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12118 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
3 MF35E-1-AK-X J1C230604-2-DUP 03/22/2011 12:15		1.01g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12119 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
4 MF35F-1-AF J1C230604-3-SAMP 03/22/2011 12:20		1.03g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12120 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
5 MF35G-1-AF J1C230604-4-SAMP 03/22/2011 12:25		1.05g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12121 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
6 MF35H-1-AF J1C230604-5-SAMP 03/22/2011 13:30		1.03g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12122 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
7 MF35J-1-AF J1C230604-6-SAMP 03/22/2011 13:35		1.02g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12123 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:

3/24/2011 8:52:25 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083132 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

EQ Batch, Test: None

Prep Tech: ,WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35K-1-AF J1C230604-7-SAMP 03/22/2011 13:40		1.00g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12124 03/17/11,pd 01/01/10,r #Containers: 2	50		Scr:	Alpha:	Beta:
9 MF35L-1-AF J1C230604-8-SAMP 03/22/2011 13:45		0.99g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12125 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
10 MF35M-1-AF J1C230604-9-SAMP 03/22/2011 14:40		1.00g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12126 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
11 MF35N-1-AF J1C230604-10-SAMP 03/22/2011 14:25		1.01g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12127 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
12 MF35P-1-AF J1C230604-11-SAMP 03/22/2011 14:50		0.99g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12128 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
13 MF35Q-1-AF J1C230604-12-SAMP 03/22/2011 14:55		1.00g,in AmtRec: 1XJAR60MLG,500MLP	PUTC12129 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
14 MF4HX-1-AA-B J1C240000-132-BLK 03/24/2011 08:36 pd		1.00g,in AmtRec:	PUTC12130 03/17/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:

3/24/2011 8:52:26 PM

Sample Preparation/Analysis

6A Pu Prp PRP003/PRP005, Sep ALP002(ALP015)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

PRIORITY

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083132 pCi/g

Sep2 DT/Tm Tech:

REQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4HX-1-AC-C		1.05g,in	PUSK0839	50				
J1C240000-132-LCS			03/10/11,pd					
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: MF35D-SAMP "ISV. Recount DUP on a different detector."

All Clients for Batch:
95 127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MF35D1AF-SAMP Constituent List:

PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						

MF4HX1AA-BLK:

MF4HX1AC-LCS:

MF35D1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/31/2011 8:46:05 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/31/2010, 4/5/2011, Batch: '1083132', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083132						
AC		Rev1C	WoodT	3/24/2011 8:24:52 PM		
SC			MaucleriS	IsBatched	3/24/2011 8:54:14 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/24/2011 8:24:52 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:56:27 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 10:42:35 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep1C	3/25/2011 7:13:21 PM	RL-ALP-001 REVISION 2
SC			HoganS	Sep2C	3/30/2011 2:25:14 PM	RL-ALP-016 REVISION 1
SC			BlackCL	InCnt1	3/30/2011 2:44:21 PM	RL-CI-008 REVISION 1
SC			DawkinsO	CalcC	3/30/2011 8:34:17 PM	RL-CI-008 REVISION 1
SC			antonsonI	Rev1C	3/31/2011 8:45:53 AM	RL-DR-001 Rev 2
AC			WoodT	3/25/2011 2:56:27		
AC			BouslaughP	3/25/2011 10:42:35		
AC			JorgensonD	3/25/2011 7:13:21 PM		
AC			HoganS	3/30/2011 2:25:14 PM		
AC			BlackCL	3/30/2011 2:44:21 PM		
AC			DawkinsO	3/30/2011 8:34:17 PM		
AC			antonsonI	3/31/2011 8:45:53		

AC: Accepting Entry; SC: Status Change

6/24/2011 10:07:43 PM

Sample Preparation/Analysis

Balance Id:1120373922

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

7S Ulso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/30/2011 JP0133

Sep1 DT/Tm Tech:

Batch: 1083133 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

REQ Batch, Test: None

Prep Tech: BouslaughP,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AC J1C230604-1-SAMP 03/22/2011 12:10		0.99g,in AmtRec: 1XJAR60MLG,500MLP	UITC26001 03/07/11,pd 06/15/01,r #Containers: 2	50		Scr:	Alpha:	Beta:
2 MF35E-1-AC J1C230604-2-SAMP 03/22/2011 12:15		1.00g,in AmtRec: 1XJAR60MLG,500MLP	UITC26002 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
3 MF35F-1-AC J1C230604-3-SAMP 03/22/2011 12:20		0.97g,in AmtRec: 1XJAR60MLG,500MLP	UITC26003 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
4 MF35F-1-AK-X J1C230604-3-DUP 03/22/2011 12:20		1.05g,in AmtRec: 1XJAR60MLG,500MLP	UITC26004 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
5 MF35G-1-AC J1C230604-4-SAMP 03/22/2011 12:25		0.99g,in AmtRec: 1XJAR60MLG,500MLP	UITC26005 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
6 MF35H-1-AC J1C230604-5-SAMP 03/22/2011 13:30		1.05g,in AmtRec: 1XJAR60MLG,500MLP	UITC26006 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
7 MF35J-1-AC J1C230604-6-SAMP 03/22/2011 13:35		0.99g,in AmtRec: 1XJAR60MLG,500MLP	UITC26007 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:

6/24/2011 10:07:43 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

7S Ulso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

PRIOR

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083133 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

GEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35K-1-AC J1C230604-7-SAMP 03/22/2011 13:40	AmtRec: 1XJAR60MLG,500MLP	1.02g,in	UITC26008 03/07/11,pd 06/15/01,r #Containers: 2	50		Scr:	Alpha:	Beta:
9 MF35L-1-AC J1C230604-8-SAMP 03/22/2011 13:45	AmtRec: 1XJAR60MLG,500MLP	1.03g,in	UITC26009 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
10 MF35M-1-AC J1C230604-9-SAMP 03/22/2011 14:40	AmtRec: 1XJAR60MLG,500MLP	1.03g,in	UITC26010 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
11 MF35N-1-AC J1C230604-10-SAMP 03/22/2011 14:25	AmtRec: 1XJAR60MLG,500MLP	0.99g,in	UITC26011 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
12 MF35P-1-AC J1C230604-11-SAMP 03/22/2011 14:50	AmtRec: 1XJAR60MLG,500MLP	1.03g,in	UITC26012 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
13 MF35Q-1-AC J1C230604-12-SAMP 03/22/2011 14:55	AmtRec: 1XJAR60MLG,500MLP	1.03g,in	UITC26013 03/07/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
14 MF4H1-1-AA-B J1C240000-133-BLK 03/24/2011 08:36 pd	AmtRec:	1.04g,in	UITC26014 03/07/11,pd 06/15/01,r #Containers: 1			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/24/2011 10:07:44 PM

Sample Preparation/Analysis

7S Uiso Prp PRP003/PRP005, Sep ALP009(ALP015)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,WoodT

AnalyDueDate: 03/30/2011

Batch: 1083133 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4H1-1-AC-C		0.98g,in	UISH1294	50				
J1C240000-133-LCS			03/03/11,pd					
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: MF35D-SAMP "ISV. Recount DUP on a different detector."

Sample MF35H1AC (#6). 2 ED disks stuck together, loaded Top one (residue visible) RC 4/2/11

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MF35D1AC-SAMP Constituent List:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

MF4H11AA-BLK:

MF4H11AC-LCS:

MF35D1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H11AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H11AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/4/2011 2:31:20 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083133', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083133						
AC		Rev1C	WoodT	3/24/2011 9:48:22 PM		
SC			MaucieriS	IsBatched	3/24/2011 8:54:20 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/24/2011 9:48:22 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:56:23 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 10:23:36 AM	RL-PRP-003 REVISION 1
SC			HoganH	Sep1C	3/30/2011 4:07:11 PM	ALP-004 REVISION 1
SC			HoganH	Sep2C	4/1/2011 10:07:30 AM	RL-ALP-015 REVISION 1
SC			ClarkR	InCnt1	4/1/2011 10:08:22 AM	RL-CI-008 REVISION 1
SC			ClarkR	CalcC	4/2/2011 2:29:56 PM	RL-CI-008 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 2:30:37 PM	RL-DR-001 Rev 2
AC			WoodT	3/25/2011 2:56:23		
AC			BouslaughP	3/25/2011 10:23:36		
AC			HoganH	3/30/2011 4:07:11 PM		
AC			HoganH	4/1/2011 10:07:30		
AC			ClarkR	4/1/2011 10:08:22		
AC			ClarkR	4/2/2011 2:29:56 PM		
AC			antonsonl	4/4/2011 2:30:37 PM		

AC: Accepting Entry; SC: Status Change

3/24/2011 9:23:39 PM

Sample Preparation/Analysis

Balance Id:1120373922

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011 JP0133

Sep1 DT/Tm Tech: 12:35 4/4/11 APA

Batch: 1083139 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

BEQ Batch, Test: None

Prep Tech: BouslaughP,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AD J1C230604-1-SAMP 03/22/2011 12:10		6.00g,in AmtRec: 1XJAR60MLG,500MLP #Containers: 2	SRTA20815 03/16/11	1.5	1.86719 −1.41659 50.6mg	50	31A	1906	4/4/11 OA Scr: Alpha: Beta:	
2 MF35E-1-AD J1C230604-2-SAMP 03/22/2011 12:15		6.00g,in AmtRec: 1XJAR60MLG,500MLP #Containers: 2	SRTA20811 03/16/11		1.47299 −1.42869 44.3mg		31B		Scr: Alpha: Beta:	
3 MF35F-1-AD J1C230604-3-SAMP 03/22/2011 12:20		6.04g,in AmtRec: 1XJAR60MLG,500MLP #Containers: 2	SRTA20812 03/16/11		1.46499 −1.41309 51.9mg		31D		Scr: Alpha: Beta:	
4 MF35G-1-AD J1C230604-4-SAMP 03/22/2011 12:25		5.99g,in AmtRec: 1XJAR60MLG,500MLP #Containers: 2	SRTA20813 03/16/11		1.45879 −1.41029 48.5mg		32A		Scr: Alpha: Beta:	
5 MF35H-1-AD J1C230604-5-SAMP 03/22/2011 13:30		6.01g,in AmtRec: 1XJAR60MLG,500MLP #Containers: 2	SRTA20814 03/16/11		1.46979 −1.41339 56.4mg		32B		Scr: Alpha: Beta:	
6 MF35J-1-AD J1C230604-6-SAMP 03/22/2011 13:35		6.02g,in AmtRec: 1XJAR60MLG,500MLP #Containers: 2	SRTA20816 03/16/11		1.47639 −1.42289 53.5mg		32C		Scr: Alpha: Beta:	
7 MF35K-1-AD J1C230604-7-SAMP 03/22/2011 13:40		6.03g,in AmtRec: 1XJAR60MLG,500MLP #Containers: 2	SRTA20817 03/16/11		1.47029 −1.42159 48.7mg		32D		Scr: Alpha: Beta:	

TestAmerica Laboratories, Inc.

3/24/2011 9:23:40 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083139 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35K-1-AK-X J1C230604-7-DUP 03/22/2011 13:40		6.05g,in AmtRec: 1XJAR60MLG,500MLP	SRTA20818 03/16/11 #Containers: 2	1.5	1.47679 -1.42759 49.2mg	50	26A Scr:	1913 Alpha:	4/4/11 OK Beta:	
9 MF35L-1-AD J1C230604-8-SAMP 03/22/2011 13:45		6.05g,in AmtRec: 1XJAR60MLG,500MLP	SRTA20819 03/16/11 #Containers: 2		1.48519 -1.42279 62.4mg		26B Scr:	Alpha:	Beta:	
10 MF35M-1-AD J1C230604-9-SAMP 03/22/2011 14:40		6.02g,in AmtRec: 1XJAR60MLG,500MLP	SRTA20820 03/16/11 #Containers: 2		1.46549 -1.40229 63.2mg		26C Scr:	Alpha:	Beta:	
11 MF35N-1-AD J1C230604-10-SAMP 03/22/2011 14:25		6.00g,in AmtRec: 1XJAR60MLG,500MLP	SRTA20821 03/16/11 #Containers: 2		1.49669 -1.43619 60.5mg		26D Scr:	Alpha:	Beta:	
12 MF35P-1-AD J1C230604-11-SAMP 03/22/2011 14:50		6.08g,in AmtRec: 1XJAR60MLG,500MLP	SRTA20822 03/16/11 #Containers: 2		1.48789 -1.42609 61.8mg		27A Scr:	Alpha:	Beta:	
13 MF35Q-1-AD J1C230604-12-SAMP 03/22/2011 14:55		5.98g,in AmtRec: 1XJAR60MLG,500MLP	SRTA20823 03/16/11 #Containers: 2		1.49919 -1.43409 65.1mg		27B Scr:	Alpha:	Beta:	
14 MF4H7-1-AA-B J1C240000-139-BLK 03/24/2011 08:36 pd		6.05g,in AmtRec: #Containers: 1	SRTA20824 03/16/11		1.49289 -1.39909 93.8mg		27C Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

03/24/2011 9:23:40 PM

Sample Preparation/Analysis

CH Sr-Total Prp PRP003, Sep GPC003
TH Total Strontium by GPC
5I CLIENT: HANFORD

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083139 pCi/g

Sep2 DT/Tm Tech:

EQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4H7-1-AC-C J1C240000-139-LCS		5.98g,in	STSB1581 03/10/11	1.5	1.50589 -1.41179 94.1mg	50	27D	1913	4/4/11 DR	
03/24/2011 08:36 pd		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: MF35D-SAMP "ISV. Recount DUP on a different detector."

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MF35D1AD-SAMP Constituent List:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
MF4H71AA-BLK:

MF4H71AC-LCS:

MF35D1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/5/2011 10:46:12 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/5/2010, 4/10/2011, Batch: '1083139', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083139						
AC		**Rev1C**	**WoodT**	3/24/2011 8:53:18 PM		
SC			MaucierlS	IsBatched	3/24/2011 8:54:55 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/24/2011 8:53:18 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:56:54 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 12:29:03 PM	RL-PRP-003 REVISION 1
SC			AshworthA	Sep2C	4/4/2011 3:40:00 PM	RL-GPC-003 REVISION 1
SC			DawkinsO	InCnt1	4/4/2011 4:35:23 PM	RL-CI-006 REVISION 1
SC			WhelandS	Rev1C	4/5/2011 10:45:39 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/25/2011 2:56:54		
AC			**BouslaughP**	3/25/2011 12:29:03		
AC			**AshworthA**	4/4/2011 3:40:00 PM		
AC			**DawkinsO**	4/4/2011 4:35:23 PM		
AC			**WhelandS**	4/5/2011 10:45:39		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.44

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3/24/2011 7:12:13 PM

Sample Preparation/Analysis

Balance Id:1120421763

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: BouslaughP

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

PRIORITY

AnalyDueDate: 03/30/2011

Batch: 1083130 SOIL pCi/g PM, Quote: RW2, 27038

EQ Batch, Test: None

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AH J1C230604-1-SAMP 03/22/2011 12:10			349.80g,in AmtRec: 1XJAR60MLG,500MLP	349.80g #Containers: 2		S200	200	G11 Scr:	1420 Alpha:	3/25/km Beta:	
2 MF35D-1-AK-X J1C230604-1-DUP 03/22/2011 12:10			ISV AmtRec: 1XJAR60MLG,500MLP	#Containers: 2				G10 Scr:	1753 Alpha:	3/25/km Beta:	
3 MF35E-1-AH J1C230604-2-SAMP 03/22/2011 12:15			368.80g,in AmtRec: 1XJAR60MLG,500MLP	368.80g #Containers: 2				G7 Scr:	1421 Alpha:	3/25/km Beta:	
4 MF35F-1-AH J1C230604-3-SAMP 03/22/2011 12:20			416.00g,in AmtRec: 1XJAR60MLG,500MLP	416.00g #Containers: 2				G10 Scr:	1421 Alpha:	Beta:	
5 MF35G-1-AH J1C230604-4-SAMP 03/22/2011 12:25			324.70g,in AmtRec: 1XJAR60MLG,500MLP	324.70g #Containers: 2				G11 Scr:	1754 Alpha:	3/25/km Beta:	
6 MF35H-1-AH J1C230604-5-SAMP 03/22/2011 13:30			407.30g,in AmtRec: 1XJAR60MLG,500MLP	407.30g #Containers: 2				G7 Scr:	1754 Alpha:	Beta:	
7 MF35J-1-AH J1C230604-6-SAMP 03/22/2011 13:35			414.10g,in AmtRec: 1XJAR60MLG,500MLP	414.10g #Containers: 2				G15 Scr:	1755 Alpha:	Beta:	

TRLSP.NLB

3/24/2011 7:12:14 PM

Sample Preparation/Analysis

Balance Id:1120421763

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083130 SOIL pCi/g

PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

EQ Batch, Test: None

Prep Tech: ,BouslaughP

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35K-1-AH J1C230604-7-SAMP 03/22/2011 13:40			406.40g,in AmtRec: 1XJAR60MLG,500MLP	406.40g #Containers: 2		S200	200	G10 Scr:	2122 Alpha:	3/25/11 0100 Beta:	
9 MF35L-1-AH J1C230604-8-SAMP 03/22/2011 13:45			380.00g,in AmtRec: 1XJAR60MLG,500MLP	380.00g #Containers: 2				G7 Scr:	2123 Alpha:	Beta:	
10 MF35M-1-AH J1C230604-9-SAMP 03/22/2011 14:40			398.90g,in AmtRec: 1XJAR60MLG,500MLP	398.90g #Containers: 2				G11 Scr:	2124 Alpha:	Beta:	
11 MF35N-1-AH J1C230604-10-SAMP 03/22/2011 14:25			410.90g,in AmtRec: 1XJAR60MLG,500MLP	410.90g #Containers: 2				G15 Scr:	2125 Alpha:	Beta:	
12 MF35P-1-AH J1C230604-11-SAMP 03/22/2011 14:50			414.80g,in AmtRec: 1XJAR60MLG,500MLP	414.80g #Containers: 2				G15 Scr:	0303 Alpha:	3/25/11 0100 Beta:	
13 MF35Q-1-AH J1C230604-12-SAMP 03/22/2011 14:55			419.70g,in AmtRec: 1XJAR60MLG,500MLP	419.70g #Containers: 2				G10 Scr:	0305 Alpha:	Beta:	
14 MF4HR-1-AA-B J1C240000-130-BLK 03/24/2011 08:36 pd			348.00g,in AmtRec:	348.00g #Containers: 1	osbk			G7 Scr:	0306 Alpha:	Beta:	

TestAmerica Laboratories, Inc.

3/24/2011 7:12:14 PM

Sample Preparation/Analysis

AX Gamma Prp PRP003/GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

PRIORITY

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083130 pCi/g

Sep2 DT/Tm Tech:

REQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer, Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
45 MF4HR-1-AC-C			350.10g,in	350.10g	qc20009	S200	200	G11	0308	3/25/11 OP	
J1C240000-130-LCS					08/04/09,pd 09/01/09,r						
03/24/2011 08:36 pd			AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: MF35D-SAMP "ISV.,Recount DUP on a different detector."

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MF35D1AH-SAMP Constituent List:

Co-60	RDL:5.00E-02	pCi/g	LCL:	UCL:	RPD:	Cs-137	RDL:1.00E-01	pCi/g	LCL:70	UCL:130	RPD:35
Cs-137DA	RDL:1.00E-01	pCi/g	LCL:70	UCL:130	RPD:35	Eu-152	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Eu-154	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	Eu-155	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:

MF4HR1AA-BLK:

MF4HR1AC-LCS:

MF35D1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HR1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HR1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/28/2011 11:27:56 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/28/2010, 4/2/2011, Batch: '1083130', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083130						
AC		**Rev1C**	**BouslaughP**	3/24/2011 2:01:58 PM		
SC			MauclerlS	IsBatched	3/24/2011 8:54:06 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/24/2011 2:01:58 PM	RL-GAM-001 REVISION 1
SC			WoodT	Prep2C	3/24/2011 7:12:32 PM	RL-GAM-001 REVISION 1
SC			DawkinsO	InCnt1	3/25/2011 12:11:16 AM	RL-CI-007 REVISION 1
SC			ClarkR	CalcC	3/26/2011 4:00:54 PM	RL-CI-007 REVISION 1
SC			WhelandS	Rev1C	3/28/2011 11:23:00 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/24/2011 7:12:32 PM		
AC			**DawkinsO**	3/25/2011 12:11:16		
AC			**ClarkR**	3/26/2011 4:00:54 PM		
AC			**WhelandS**	3/28/2011 11:23:00		

AC: Accepting Entry; SC: Status Change

1/3

3/24/2011 8:36:58 AM

Sample Preparation/Analysis

Balance Id:

117642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083137 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

QC Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AG J1C230604-1-SAMP 03/22/2011 12:10		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MF35E-1-AG J1C230604-2-SAMP 03/22/2011 12:15		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MF35F-1-AG J1C230604-3-SAMP 03/22/2011 12:20		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MF35G-1-AG J1C230604-4-SAMP 03/22/2011 12:25		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MF35H-1-AG J1C230604-5-SAMP 03/22/2011 13:30		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MF35J-1-AG J1C230604-6-SAMP 03/22/2011 13:35		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MF35J-1-AK-X J1C230604-6-DUP 03/22/2011 13:35		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/24/2011 8:36:59 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083137 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35K-1-AG J1C230604-7-SAMP 03/22/2011 13:40		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MF35L-1-AG J1C230604-8-SAMP 03/22/2011 13:45		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MF35M-1-AG J1C230604-9-SAMP 03/22/2011 14:40		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MF35N-1-AG J1C230604-10-SAMP 03/22/2011 14:25		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MF35P-1-AG J1C230604-11-SAMP 03/22/2011 14:50		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MF35Q-1-AG J1C230604-12-SAMP 03/22/2011 14:55		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MF4H6-1-AA-B J1C240000-137-BLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/24/2011 8:37:00 AM

Sample Preparation/Analysis

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/30/2011

Batch: 1083137 pCi/g
EQ Batch, Test: None

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4H6-1-AC-C J1C240000-137-LCS 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MF4H6-1-AD-BN J1C240000-137-IBLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MF4H6-1-AE-BN J1C240000-137-IBLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MF35D1AG-SAMP Constituent List:
H-3 RDL:400 pCi/g LCL:70 UCL:130 RPD:35
MF4H61AA-BLK:

MF4H61AC-LCS:

MF4H61AD-IBLK:

MF4H61AE-IBLK:

MF35D1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H61AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

AT H-3 Prp/Sep LSC002
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/30/2011

Batch: 1083137 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

MF4H61AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H61AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H61AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/4/2011 5:05:33 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083137', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083137						
AC		Rev1C	BlackCL	4/1/2011 8:53:21 AM		
SC			MaucieriS	IsBatched	3/24/2011 8:54:47 AM	ICOC_RADCALC v4.8.49
SC			BlackCL	InCnt1	4/1/2011 8:53:21 AM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	4/3/2011 10:47:28 PM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 5:04:43 PM	RL-DR-001 Rev 2
AC			DawkinsO	4/3/2011 10:47:28 PM		
AC			antonsonl	4/4/2011 5:04:43 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 3

ICOCFractions v4.8.44

5,22

3/24/2011 8:36:53 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083135 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SDG Batch, Test: None

Prep Tech:

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AJ J1C230604-1-SAMP 03/22/2011 12:10		5.056g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MF35E-1-AJ J1C230604-2-SAMP 03/22/2011 12:15		5.043g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MF35F-1-AJ J1C230604-3-SAMP 03/22/2011 12:20		5.057g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MF35G-1-AJ J1C230604-4-SAMP 03/22/2011 12:25		5.011g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MF35G-1-AK-X J1C230604-4-DUP 03/22/2011 12:25		5.023g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MF35H-1-AJ J1C230604-5-SAMP 03/22/2011 13:30		5.013g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MF35J-1-AJ J1C230604-6-SAMP 03/22/2011 13:35		5.018g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:

3/24/2011 8:36:54 AM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083135 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SDQ Batch, Test: None

Prep Tech:

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35K-1-AJ J1C230604-7-SAMP 03/22/2011 13:40		5.021g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MF35L-1-AJ J1C230604-8-SAMP 03/22/2011 13:45		5.026g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MF35M-1-AJ J1C230604-9-SAMP 03/22/2011 14:40		5.004g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MF35N-1-AJ J1C230604-10-SAMP 03/22/2011 14:25		5.012g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MF35P-1-AJ J1C230604-11-SAMP 03/22/2011 14:50		5.010g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MF35Q-1-AJ J1C230604-12-SAMP 03/22/2011 14:55		5.026g AmtRec: 1XJAR60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MF4H3-1-AA-B J1C240000-135-BLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

3/24/2011 8:36:55 AM

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083135 pCi/g

Sep2 DT/Tm Tech:

SDG Batch, Test: None

Prep Tech:

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4H3-1-AC-C J1C240000-135-LCS 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MF4H3-1-AD-BN J1C240000-135-IBLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MF4H3-1-AE-BN J1C240000-135-IBLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

```
All Clients for Batch:
   127642, Washington Closure Hanford LLC          Bechtel Hanford, Inc.          ,  RW2, 27038

MF35D1AJ-SAMP Constituent List:
  C-14        RDL:50          pCi/g     LCL:70      UCL:130      RPD:35
MF4H31AA-BLK:

MF4H31AC-LCS:

MF4H31AD-IBLK:

MF4H31AE-IBLK:

MF35D1AJ-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MF4H31AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Sample Preparation/Analysis

5S C-14 Prp/Sep LSC008
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/30/2011

Batch: 1083135 pCi/g
SDG Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

MF4H31AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H31AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H31AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/6/2011 10:31:31 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/6/2010, 4/11/2011, Batch: '1083135', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083135						
AC		Rev1C	**BlackCL**	4/1/2011 8:52:49 AM		
SC			MauclerlS	IsBatched	3/24/2011 8:54:27 AM	ICOC_RADCALC v4.8.49
SC			BlackCL	InCnt1	4/1/2011 8:52:49 AM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	4/6/2011 1:01:20 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	4/6/2011 10:30:44 AM	RL-DR-001 Rev 2
AC			**DawkinsO**	4/6/2011 1:01:20 AM		
AC			**antonsonl**	4/6/2011 10:30:44		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland,Wa.

Page 1

Grp Rec Cnt: 3

ICOCFractions v4.8.44

3/24/2011 9:44:16 PM

Sample Preparation/Analysis

Balance Id:1120373922

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint

Pipet #: _____

AnalyDueDate: 03/30/2011 JP0133

5I CLIENT: HANFORD

PRIORITY

Sep1 DT/Tm Tech:

Batch: 1083136 SOIL pCi/g

PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP,WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AE J1C230604-1-SAMP 03/22/2011 12:10		AmtRec: 1XJAR60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3991 03/16/11	20	Scr:	Alpha:		Beta:
2 MF35E-1-AE J1C230604-2-SAMP 03/22/2011 12:15		AmtRec: 1XJAR60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3992 03/16/11		Scr:	Alpha:		Beta:
3 MF35F-1-AE J1C230604-3-SAMP 03/22/2011 12:20		AmtRec: 1XJAR60MLG,500MLP	0.23g,in	0.23g #Containers: 2	NITA3993 03/16/11		Scr:	Alpha:		Beta:
4 MF35G-1-AE J1C230604-4-SAMP 03/22/2011 12:25		AmtRec: 1XJAR60MLG,500MLP	0.24g,in	0.24g #Containers: 2	NITA3994 03/16/11		Scr:	Alpha:		Beta:
5 MF35H-1-AE J1C230604-5-SAMP 03/22/2011 13:30		AmtRec: 1XJAR60MLG,500MLP	0.27g,in	0.27g #Containers: 2	NITA3995 03/16/11		Scr:	Alpha:		Beta:
6 MF35H-1-AK-X J1C230604-5-DUP 03/22/2011 13:30		AmtRec: 1XJAR60MLG,500MLP	0.27g,in	0.27g #Containers: 2	NITA3996 03/16/11		Scr:	Alpha:		Beta:
7 MF35J-1-AE J1C230604-6-SAMP 03/22/2011 13:35		AmtRec: 1XJAR60MLG,500MLP	0.24g,in	0.24g #Containers: 2	NITA3997 03/16/11		Scr:	Alpha:		Beta:

03/24/2011 9:44:17 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083136 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35K-1-AE J1C230604-7-SAMP 03/22/2011 13:40			0.25g,in AmtRec: 1XJAR60MLG,500MLP	0.25g #Containers: 2	NITA3998 03/16/11	20	Scr:	Alpha:	Beta:	
9 MF35L-1-AE J1C230604-8-SAMP 03/22/2011 13:45			0.28g,in AmtRec: 1XJAR60MLG,500MLP	0.28g #Containers: 2	NITA3999 03/16/11		Scr:	Alpha:	Beta:	
10 MF35M-1-AE J1C230604-9-SAMP 03/22/2011 14:40			0.24g,in AmtRec: 1XJAR60MLG,500MLP	0.24g #Containers: 2	NITA4000 03/16/11		Scr:	Alpha:	Beta:	
11 MF35N-1-AE J1C230604-10-SAMP 03/22/2011 14:25			0.24g,in AmtRec: 1XJAR60MLG,500MLP	0.24g #Containers: 2	NITA4001 03/16/11		Scr:	Alpha:	Beta:	
12 MF35P-1-AE J1C230604-11-SAMP 03/22/2011 14:50			0.25g,in AmtRec: 1XJAR60MLG,500MLP	0.25g #Containers: 2	NITA4002 03/16/11		Scr:	Alpha:	Beta:	
13 MF35Q-1-AE J1C230604-12-SAMP 03/22/2011 14:55			0.25g,in AmtRec: 1XJAR60MLG,500MLP	0.25g #Containers: 2	NITA4003 03/16/11		Scr:	Alpha:	Beta:	
14 MF4H5-1-AA-B J1C240000-136-BLK 03/24/2011 08:36 pd			0.25g,in AmtRec:	0.25g #Containers: 1	NITA4004 03/16/11		Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

03/24/2011 9:44:17 PM

Sample Preparation/Analysis

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Balance Id:1120373922
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,WoodT

AnalyDueDate: 03/30/2011

Batch: 1083136 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4H5-1-AC-C J1C240000-136-LCS 03/24/2011 08:36 pd		AmtRec:	0.24g,in	0.24g #Containers: 1	NISA1400 03/10/11	20	Scr:	Alpha:	Beta:	
16 MF4H5-1-AD-BN J1C240000-136-IBLK 03/24/2011 08:36 pd		AmtRec:		#Containers: 1			Scr:	Alpha:	Beta:	
17 MF4H5-1-AE-BN J1C240000-136-IBLK 03/24/2011 08:36 pd		AmtRec:		#Containers: 1			Scr:	Alpha:	Beta:	

Comments: MF35D-SAMP "ISV. Recount DUP on a different detector."

All Clients for Batch:
127642, Washington Closure Hanford LLC Bechtel Hanford, Inc. , RW2, 27038

MF35D1AE-SAMP Constituent List:
Ni-63 RDL:30 pCi/g LCL:70 UCL:130 RPD:35
MF4H51AA-BLK:

MF4H51AC-LCS:

MF4H51AD-IBLK:

MF4H51AE-IBLK:

MF35D1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4H51AA-BLK:

TestAmerica Laboratories, Inc.

Sample Preparation/Analysis

AF Ni-63 Prp PRP003/PRP005, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/30/2011

Batch: 1083136 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MF4H51AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MF4H51AD-IBLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MF4H51AE-IBLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

4/5/2011 8:50:59 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/5/2010, 4/10/2011, Batch: '1083136', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083136						
AC		Rev1C	WoodT	3/24/2011 9:26:17 PM		
SC			MaucieriS	IsBatched	3/24/2011 8:54:36 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/24/2011 9:26:17 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/25/2011 2:56:32 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/25/2011 10:25:49 AM	RL-PRP-003 REVISION 1
SC			ClarkR	InCnt1	4/1/2011 11:57:33 AM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	4/3/2011 10:24:50 PM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	4/5/2011 8:50:50 AM	RL-DR-001 Rev 2
AC			WoodT	3/25/2011 2:56:32		
AC			BouslaughP	3/25/2011 10:25:49		
AC			ClarkR	4/1/2011 11:57:33		
AC			DawkinsO	4/3/2011 10:24:50 PM		
AC			antonsonl	4/5/2011 8:50:50 AM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.44

3/26/2011 10:46:34 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:
Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1085028 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

REQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF35D-1-AA J1C230604-1-SAMP 03/22/2011 12:10		AmtRec: 1XJAR60MLG,500MLP		#Containers: 2				Scr:	Alpha:	Beta:
2 MF35D-1-AL-S J1C230604-1-MS 03/22/2011 12:10		AmtRec: 1XJAR60MLG,500MLP		#Containers: 2				Scr:	Alpha:	Beta:
3 MF35D-1-AM-D J1C230604-1-MSD 03/22/2011 12:10		AmtRec: 1XJAR60MLG,500MLP		#Containers: 2				Scr:	Alpha:	Beta:
4 MF35D-1-AN-X J1C230604-1-DUP 03/22/2011 12:10		AmtRec: 1XJAR60MLG,500MLP		#Containers: 2				Scr:	Alpha:	Beta:
5 MF35E-1-AA J1C230604-2-SAMP 03/22/2011 12:15		AmtRec: 1XJAR60MLG,500MLP		#Containers: 2				Scr:	Alpha:	Beta:
6 MF35F-1-AA J1C230604-3-SAMP 03/22/2011 12:20		AmtRec: 1XJAR60MLG,500MLP		#Containers: 2				Scr:	Alpha:	Beta:
7 MF35G-1-AA J1C230604-4-SAMP 03/22/2011 12:25		AmtRec: 1XJAR60MLG,500MLP		#Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/26/2011 10:46:35 AM

Sample Preparation/Analysis

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:
Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1085028 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF35H-1-AA J1C230604-5-SAMP 03/22/2011 13:30		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
9 MF35J-1-AA J1C230604-6-SAMP 03/22/2011 13:35		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
10 MF35K-1-AA J1C230604-7-SAMP 03/22/2011 13:40		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
11 MF35L-1-AA J1C230604-8-SAMP 03/22/2011 13:45		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
12 MF35M-1-AA J1C230604-9-SAMP 03/22/2011 14:40		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
13 MF35N-1-AA J1C230604-10-SAMP 03/22/2011 14:25		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
14 MF35P-1-AA J1C230604-11-SAMP 03/22/2011 14:50		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/26/2011 10:46:35 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC , DW Alkaline Digestion by method 3060A
Bechtel Hanford, Inc. EA Chromium, Hexavalent (7196A)

AnalyDueDate: 03/30/2011 5I CLIENT: HANFORD

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Batch: 1085028 SOIL mg/kg PM, Quote: RW2, 27038

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF35Q-1-AA J1C230604-12-SAMP 03/22/2011 14:55		AmtRec: 1XJAR60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
16 MF75W-1-AA-B J1C260000-28-BLK 03/26/2011 09:49 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
17 MF75W-1-AC-C J1C260000-28-LCS 03/26/2011 09:49 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: MF35D-SAMP "ISV. Recount DUP on a different detector."

```
All Clients for Batch:
   127642, Washington Closure Hanford LLC          Bechtel Hanford, Inc.          , RW2, 27038

MF35D1AA-SAMP Constituent List:
  HEXCHROME   RDL:0.1548      mg/kg      LCL:80      UCL:120      RPD:20
MF35D1AL-MS Constituent List:

MF35D1AM-MSD:

MF75W1AA-BLK:

MF75W1AC-LCS:

MF35D1AA-SAMP Calc Info:
    Uncert Level (#s).: 2      Decay to SaDt: Y      Blk Subt.: N      Sci.Not.: Y      ODRs; B
MF35D1AL-MS Calc Info:
```


TestAmerica Laboratories Inc.

Sample Preparation/Analysis

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/30/2011

Batch: 1085028 mg/kg
DEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF35D1AM-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF75W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF75W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-13857-1

SDG Number: JP0133

Job Description: SAF# RC-074

For:
Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

Attention: Joan H Kessner

RECEIVED
APR 2011

Approved for release.
Kae E Yoder
Project Manager II
4/8/2011 12:09 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/08/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-13857-1

SDG #: JP0133
SAF#: RC-074

Date SDG Closed: March 24, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FJN4	280-13857-1	6010/7471	6010B/7471A
J1FJN5	280-13857-2	6010/7471	6010B/7471A
J1FJN6	280-13857-3	6010/7471	6010B/7471A
J1FJN7	280-13857-4	6010/7471	6010B/7471A
J1FJN8	280-13857-5	6010/7471	6010B/7471A
J1FJN9	280-13857-6	6010/7471	6010B/7471A
J1FJP0	280-13857-7	6010/7471	6010B/7471A
J1FJP1	280-13857-8	6010/7471	6010B/7471A
J1FJP2	280-13857-9	6010/7471	6010B/7471A
J1FJP3	280-13857-10	6010/7471	6010B/7471A
J1FJP4	280-13857-11	6010/7471	6010B/7471A
J1FJP5	280-13857-12	6010/7471	6010B/7471A

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this Case Narrative. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the signature on the Report Cover.

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

The results, RLs and MDLs included in this report have been adjusted for dry weight, as appropriate.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 3/24/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.9 C.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-59242 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1FJP3; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the Matrix Spike and Duplicate analysis performed on sample J1FJP3, and the associated sample result has been flagged "N" and "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary. deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Lab Section	Qualifier	Description
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Method	Analyst	Analyst ID
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Stoltz, Katie	KS
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13857-1	J1FJN4	Solid	03/22/2011 1210	03/24/2011 1000
280-13857-2	J1FJN5	Solid	03/22/2011 1215	03/24/2011 1000
280-13857-3	J1FJN6	Solid	03/22/2011 1220	03/24/2011 1000
280-13857-4	J1FJN7	Solid	03/22/2011 1225	03/24/2011 1000
280-13857-5	J1FJN8	Solid	03/22/2011 1330	03/24/2011 1000
280-13857-6	J1FJN9	Solid	03/22/2011 1335	03/24/2011 1000
280-13857-7	J1FJP0	Solid	03/22/2011 1340	03/24/2011 1000
280-13857-8	J1FJP1	Solid	03/22/2011 1345	03/24/2011 1000
280-13857-9	J1FJP2	Solid	03/22/2011 1440	03/24/2011 1000
280-13857-10	J1FJP3	Solid	03/22/2011 1445	03/24/2011 1000
280-13857-11	J1FJP4	Solid	03/22/2011 1450	03/24/2011 1000
280-13857-12	J1FJP5	Solid	03/22/2011 1455	03/24/2011 1000

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJN4**

Lab Sample ID: 280-13857-1
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/22/2011 1210
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	03/28/2011 1320			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4160	X	1.5	4.9
Antimony		0.37	U	0.37	0.58
Arsenic		1.2		0.64	0.97
Barium		50.4	X	0.074	0.49
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.040	U	0.040	0.19
Calcium		5330	X	13.7	48.5
Chromium		3.9	X	0.056	0.19
Cobalt		7.0	X	0.097	0.97
Copper		15.5	X	0.21	0.97
Iron		21100	X	3.7	4.9
Lead		2.3		0.26	0.49
Magnesium		4120	X	3.6	19.4
Manganese		298	X	0.097	0.97
Molybdenum		0.35	B	0.25	1.9
Nickel		8.8	X	0.12	3.9
Potassium		570		39.8	291
Selenium		0.83	U	0.83	0.97
Silicon		162		5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		281		57.2	116
Vanadium		63.2	X	0.091	1.9
Zinc		40.8	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/30/2011 1200			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0056	U	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJN5**

Lab Sample ID: 280-13857-2
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/22/2011 1215
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	03/28/2011 1322			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6390	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.1		0.64	0.97
Barium		51.3	X	0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.051	B	0.040	0.19
Calcium		8880	X	13.6	48.3
Chromium		8.8	X	0.056	0.19
Cobalt		8.0	X	0.097	0.97
Copper		15.9	X	0.21	0.97
Iron		23100	X	3.7	4.8
Lead		4.5		0.26	0.48
Magnesium		5300	X	3.6	19.3
Manganese		355	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		11.8	X	0.12	3.9
Potassium		1070		39.6	290
Selenium		0.83	U	0.83	0.97
Silicon		273		5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		322		57.0	116
Vanadium		65.6	X	0.091	1.9
Zinc		50.5	X	0.38	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1203			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0092	B	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJN6**

Lab Sample ID: 280-13857-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/22/2011 1220
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	03/28/2011 1324			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4960	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		1.5		0.65	0.98
Barium		42.6	X	0.074	0.49
Beryllium		0.032	U	0.032	0.20
Boron		0.96	U	0.96	2.0
Cadmium		0.040	U	0.040	0.20
Calcium		4950	X	13.8	49.0
Chromium		4.7	X	0.057	0.20
Cobalt		7.8	X	0.098	0.98
Copper		15.1	X	0.21	0.98
Iron		19700	X	3.7	4.9
Lead		3.1		0.26	0.49
Magnesium		4320	X	3.6	19.6
Manganese		264	X	0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		9.2	X	0.12	3.9
Potassium		845		40.1	294
Selenium		0.84	U	0.84	0.98
Silicon		290		5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		253		57.8	118
Vanadium		51.1	X	0.092	2.0
Zinc		40.2	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/30/2011 1209			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJN7**

Lab Sample ID: 280-13857-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 03/22/2011 1225
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	03/28/2011 1327			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5210	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		2.1		0.66	1.0
Barium		41.2	X	0.076	0.50
Beryllium		0.033	B	0.033	0.20
Boron		0.99	U	0.99	2.0
Cadmium		0.42		0.041	0.20
Calcium		5500	X	14.2	50.3
Chromium		5.4	X	0.058	0.20
Cobalt		6.5	X	0.10	1.0
Copper		14.4	X	0.22	1.0
Iron		15600	X	3.8	5.0
Lead		3.6		0.27	0.50
Magnesium		4080	X	3.7	20.1
Manganese		237	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		6.7	X	0.12	4.0
Potassium		965		41.2	302
Selenium		0.86	U	0.86	1.0
Silicon		405		5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		280		59.3	121
Vanadium		35.6	X	0.094	2.0
Zinc		37.7	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/30/2011 1212			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0058	U	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJN8**

Lab Sample ID: 280-13857-5
Client Matrix: Solid
% Moisture: 9.7

Date Sampled: 03/22/2011 1330
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	03/28/2011 1329			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5690	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		1.9		0.63	0.95
Barium		52.0	X	0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.94	U	0.94	1.9
Cadmium		0.074	B	0.039	0.19
Calcium		6480	X	13.5	47.7
Chromium		6.5	X	0.055	0.19
Cobalt		6.7	X	0.095	0.95
Copper		14.6	X	0.21	0.95
Iron		17700	X	3.6	4.8
Lead		11.7		0.26	0.48
Magnesium		3950	X	3.5	19.1
Manganese		275	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		9.2	X	0.12	3.8
Potassium		927		39.1	286
Selenium		0.82	U	0.82	0.95
Silicon		347		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		321		56.3	115
Vanadium		47.8	X	0.090	1.9
Zinc		40.3	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/30/2011 1214			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0061	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJN9**

Lab Sample ID: 280-13857-6
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/22/2011 1335
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	03/28/2011 1331			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4630	X	1.4	4.6
Antimony		0.35	U	0.35	0.56
Arsenic		1.1		0.61	0.93
Barium		44.8	X	0.070	0.46
Beryllium		0.031	U	0.031	0.19
Boron		0.91	U	0.91	1.9
Cadmium		0.047	B	0.038	0.19
Calcium		4590	X	13.1	46.4
Chromium		3.6	X	0.054	0.19
Cobalt		7.5	X	0.093	0.93
Copper		13.7	X	0.20	0.93
Iron		20600	X	3.5	4.6
Lead		2.7		0.25	0.46
Magnesium		4120	X	3.4	18.6
Manganese		273	X	0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		7.6	X	0.11	3.7
Potassium		663		38.0	278
Selenium		0.80	U	0.80	0.93
Silicon		354		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		288		54.7	111
Vanadium		52.1	X	0.087	1.9
Zinc		38.5	X	0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/30/2011 1216			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJP0**

Lab Sample ID: 280-13857-7
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 03/22/2011 1340
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	03/28/2011 1334			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4240	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		0.95	B	0.65	0.98
Barium		43.0	X	0.075	0.49
Beryllium		0.032	U	0.032	0.20
Boron		0.96	U	0.96	2.0
Cadmium		0.044	B	0.040	0.20
Calcium		4410	X	13.9	49.1
Chromium		4.9	X	0.057	0.20
Cobalt		7.3	X	0.098	0.98
Copper		12.8	X	0.21	0.98
Iron		19900	X	3.7	4.9
Lead		2.2		0.27	0.49
Magnesium		3850	X	3.6	19.6
Manganese		271	X	0.098	0.98
Molybdenum		0.26	U	0.26	2.0
Nickel		7.5	X	0.12	3.9
Potassium		646		40.3	295
Selenium		0.84	U	0.84	0.98
Silicon		271		5.6	9.8
Silver		0.16	U	0.16	0.20
Sodium		223		58.0	118
Vanadium		52.1	X	0.092	2.0
Zinc		37.3	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/30/2011 1219			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0052	U	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJP1**

Lab Sample ID: 280-13857-8
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 03/22/2011 1345
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/28/2011 1336			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4700	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		1.2		0.63	0.95
Barium		39.3	X	0.072	0.48
Beryllium		0.031	U	0.031	0.19
Boron		1.6	B	0.93	1.9
Cadmium		0.053	B	0.039	0.19
Calcium		5670	X	13.4	47.5
Chromium		18.7	X	0.055	0.19
Cobalt		8.7	X	0.095	0.95
Copper		14.4	X	0.21	0.95
Iron		21500	X	3.6	4.8
Lead		2.7		0.26	0.48
Magnesium		7430	X	3.5	19.0
Manganese		304	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		31.0	X	0.12	3.8
Potassium		649		39.0	285
Selenium		0.82	U	0.82	0.95
Silicon		210		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		345		56.1	114
Vanadium		61.1	X	0.089	1.9
Zinc		45.0	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	03/30/2011 1221			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0051	U	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJP2**

Lab Sample ID: 280-13857-9
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 03/22/2011 1440
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	03/28/2011 1348			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6610	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.2		0.65	0.98
Barium		57.4	X	0.075	0.49
Beryllium		0.032	U	0.032	0.20
Boron		0.96	U	0.96	2.0
Cadmium		0.075	B	0.040	0.20
Calcium		5660	X	13.9	49.2
Chromium		7.4	X	0.057	0.20
Cobalt		7.6	X	0.098	0.98
Copper		16.0	X	0.21	0.98
Iron		21300	X	3.7	4.9
Lead		4.6		0.27	0.49
Magnesium		5030	X	3.6	19.7
Manganese		318	X	0.098	0.98
Molybdenum		0.26	U	0.26	2.0
Nickel		10.2	X	0.12	3.9
Potassium		1170		40.3	295
Selenium		0.85	U	0.85	0.98
Silicon		335		5.6	9.8
Silver		0.16	U	0.16	0.20
Sodium		278		58.0	118
Vanadium		53.7	X	0.092	2.0
Zinc		50.1	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	03/30/2011 1223			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0058	B	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJP3**

Lab Sample ID: 280-13857-10
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/22/2011 1445
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	03/28/2011 1350			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5140	X	1.4	4.5
Antimony		0.35	U	0.35	0.55
Arsenic		1.6		0.60	0.91
Barium		62.9	X	0.069	0.45
Beryllium		0.030	U	0.030	0.18
Boron		0.89	U	0.89	1.8
Cadmium		0.048	B	0.037	0.18
Calcium		5680	X	12.8	45.5
Chromium		5.5	X	0.053	0.18
Cobalt		8.5	X	0.091	0.91
Copper		14.8	X	0.20	0.91
Iron		20200	X	3.5	4.5
Lead		3.1		0.25	0.45
Magnesium		3910	X	3.4	18.2
Manganese		296	X	0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		7.9	X	0.11	3.6
Potassium		895		37.3	273
Selenium		0.78	U	0.78	0.91
Silicon		345	M N	5.1	9.1
Silver		0.15	U	0.15	0.18
Sodium		283		53.7	109
Vanadium		53.4	X	0.086	1.8
Zinc		40.0	X	0.36	0.91

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/30/2011 1226			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	U	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJP4**

Lab Sample ID: 280-13857-11
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/22/2011 1450
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	03/28/2011 1359			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4000	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		0.99		0.64	0.96
Barium		48.3	X	0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.94	U	0.94	1.9
Cadmium		0.074	B	0.040	0.19
Calcium		5080	X	13.6	48.2
Chromium		3.3	X	0.056	0.19
Cobalt		7.6	X	0.096	0.96
Copper		15.1	X	0.21	0.96
Iron		19700	X	3.7	4.8
Lead		2.5		0.26	0.48
Magnesium		3920	X	3.6	19.3
Manganese		248	X	0.096	0.96
Molybdenum		0.31	B	0.25	1.9
Nickel		7.9	X	0.12	3.9
Potassium		629		39.5	289
Selenium		0.83	U	0.83	0.96
Silicon		224		5.5	9.6
Silver		0.15	U	0.15	0.19
Sodium		406		56.9	116
Vanadium		48.4	X	0.091	1.9
Zinc		39.7	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/30/2011 1237			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0075	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Client Sample ID: **J1FJP5**

Lab Sample ID: 280-13857-12
Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 03/22/2011 1455
Date Received: 03/24/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-59747	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	03/28/2011 1402			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5770	X	1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		2.1		0.58	0.88
Barium		52.3	X	0.067	0.44
Beryllium		0.029	U	0.029	0.18
Boron		0.90	B	0.86	1.8
Cadmium		0.046	B	0.036	0.18
Calcium		7130	X	12.4	43.9
Chromium		6.9	X	0.051	0.18
Cobalt		6.4	X	0.088	0.88
Copper		13.9	X	0.19	0.88
Iron		17900	X	3.3	4.4
Lead		3.8		0.24	0.44
Magnesium		4210	X	3.2	17.6
Manganese		266	X	0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		9.3	X	0.11	3.5
Potassium		1010		36.0	263
Selenium		0.76	U	0.76	0.88
Silicon		465		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		263		51.8	105
Vanadium		48.5	X	0.083	1.8
Zinc		37.6	X	0.35	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1239			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0056	U	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJN4**

Lab Sample ID: 280-13857-1
Client Matrix: Solid

Date Sampled: 03/22/2011 1210
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJN5**

Lab Sample ID: 280-13857-2
Client Matrix: Solid

Date Sampled: 03/22/2011 1215
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJN6**

Lab Sample ID: 280-13857-3
Client Matrix: Solid

Date Sampled: 03/22/2011 1220
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJN7**

Lab Sample ID: 280-13857-4
Client Matrix: Solid

Date Sampled: 03/22/2011 1225
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJN8**

Lab Sample ID: 280-13857-5
Client Matrix: Solid

Date Sampled: 03/22/2011 1330
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJN9**

Lab Sample ID: 280-13857-6
Client Matrix: Solid

Date Sampled: 03/22/2011 1335
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJP0**

Lab Sample ID: 280-13857-7
Client Matrix: Solid

Date Sampled: 03/22/2011 1340
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJP1**

Lab Sample ID: 280-13857-8
Client Matrix: Solid

Date Sampled: 03/22/2011 1345
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJP2**

Lab Sample ID: 280-13857-9
Client Matrix: Solid

Date Sampled: 03/22/2011 1440
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJP3**

Lab Sample ID: 280-13857-10
Client Matrix: Solid

Date Sampled: 03/22/2011 1445
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

General Chemistry

Client Sample ID: **J1FJP4**

Lab Sample ID: 280-13857-11
Client Matrix: Solid

Date Sampled: 03/22/2011 1450
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJP5**

Lab Sample ID: 280-13857-12
Client Matrix: Solid

Date Sampled: 03/22/2011 1455
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59205 Analysis Date: 03/24/2011 1405 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-59225					
LCS 280-59225/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-59225/1-A	Method Blank	T	Solid	7471A	
280-13857-1	J1FJN4	T	Solid	7471A	
280-13857-2	J1FJN5	T	Solid	7471A	
280-13857-3	J1FJN6	T	Solid	7471A	
280-13857-4	J1FJN7	T	Solid	7471A	
280-13857-5	J1FJN8	T	Solid	7471A	
280-13857-6	J1FJN9	T	Solid	7471A	
280-13857-7	J1FJP0	T	Solid	7471A	
280-13857-8	J1FJP1	T	Solid	7471A	
280-13857-9	J1FJP2	T	Solid	7471A	
280-13857-10	J1FJP3	T	Solid	7471A	
280-13857-10DU	Duplicate	T	Solid	7471A	
280-13857-10MS	Matrix Spike	T	Solid	7471A	
280-13857-11	J1FJP4	T	Solid	7471A	
280-13857-12	J1FJP5	T	Solid	7471A	
Prep Batch: 280-59242					
LCS 280-59242/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-59242/1-A	Method Blank	T	Solid	3050B	
280-13857-1	J1FJN4	T	Solid	3050B	
280-13857-2	J1FJN5	T	Solid	3050B	
280-13857-3	J1FJN6	T	Solid	3050B	
280-13857-4	J1FJN7	T	Solid	3050B	
280-13857-5	J1FJN8	T	Solid	3050B	
280-13857-6	J1FJN9	T	Solid	3050B	
280-13857-7	J1FJP0	T	Solid	3050B	
280-13857-8	J1FJP1	T	Solid	3050B	
280-13857-9	J1FJP2	T	Solid	3050B	
280-13857-10	J1FJP3	T	Solid	3050B	
280-13857-10DU	Duplicate	T	Solid	3050B	
280-13857-10MS	Matrix Spike	T	Solid	3050B	
280-13857-11	J1FJP4	T	Solid	3050B	
280-13857-12	J1FJP5	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-59747					
LCS 280-59242/2-A	Lab Control Sample	T	Solid	6010B	280-59242
MB 280-59242/1-A	Method Blank	T	Solid	6010B	280-59242
280-13857-1	J1FJN4	T	Solid	6010B	280-59242
280-13857-2	J1FJN5	T	Solid	6010B	280-59242
280-13857-3	J1FJN6	T	Solid	6010B	280-59242
280-13857-4	J1FJN7	T	Solid	6010B	280-59242
280-13857-5	J1FJN8	T	Solid	6010B	280-59242
280-13857-6	J1FJN9	T	Solid	6010B	280-59242
280-13857-7	J1FJP0	T	Solid	6010B	280-59242
280-13857-8	J1FJP1	T	Solid	6010B	280-59242
280-13857-9	J1FJP2	T	Solid	6010B	280-59242
280-13857-10	J1FJP3	T	Solid	6010B	280-59242
280-13857-10DU	Duplicate	T	Solid	6010B	280-59242
280-13857-10MS	Matrix Spike	T	Solid	6010B	280-59242
280-13857-11	J1FJP4	T	Solid	6010B	280-59242
280-13857-12	J1FJP5	T	Solid	6010B	280-59242
Analysis Batch:280-60074					
LCS 280-59225/2-A	Lab Control Sample	T	Solid	7471A	280-59225
MB 280-59225/1-A	Method Blank	T	Solid	7471A	280-59225
280-13857-1	J1FJN4	T	Solid	7471A	280-59225
280-13857-2	J1FJN5	T	Solid	7471A	280-59225
280-13857-3	J1FJN6	T	Solid	7471A	280-59225
280-13857-4	J1FJN7	T	Solid	7471A	280-59225
280-13857-5	J1FJN8	T	Solid	7471A	280-59225
280-13857-6	J1FJN9	T	Solid	7471A	280-59225
280-13857-7	J1FJP0	T	Solid	7471A	280-59225
280-13857-8	J1FJP1	T	Solid	7471A	280-59225
280-13857-9	J1FJP2	T	Solid	7471A	280-59225
280-13857-10	J1FJP3	T	Solid	7471A	280-59225
280-13857-10DU	Duplicate	T	Solid	7471A	280-59225
280-13857-10MS	Matrix Spike	T	Solid	7471A	280-59225
280-13857-11	J1FJP4	T	Solid	7471A	280-59225
280-13857-12	J1FJP5	T	Solid	7471A	280-59225

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-59205					
280-13857-1	J1FJN4	T	Solid	D-2216	
280-13857-1DU	Duplicate	T	Solid	D-2216	
280-13857-2	J1FJN5	T	Solid	D-2216	
280-13857-3	J1FJN6	T	Solid	D-2216	
280-13857-4	J1FJN7	T	Solid	D-2216	
280-13857-5	J1FJN8	T	Solid	D-2216	
280-13857-6	J1FJN9	T	Solid	D-2216	
280-13857-7	J1FJP0	T	Solid	D-2216	
280-13857-8	J1FJP1	T	Solid	D-2216	
280-13857-9	J1FJP2	T	Solid	D-2216	
280-13857-10	J1FJP3	T	Solid	D-2216	
280-13857-11	J1FJP4	T	Solid	D-2216	
280-13857-12	J1FJP5	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Method Blank - Batch: 280-59242

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-59242/1-A	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/28/2011 1315	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Lab Control Sample - Batch: 280-59242

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-59242/2-A	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/28/2011 1317	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	179.9	90	82 - 116	
Antimony	50.0	47.05	94	82 - 110	
Arsenic	100	94.71	95	85 - 110	
Barium	200	194.0	97	87 - 112	
Beryllium	5.00	4.89	98	84 - 114	
Boron	100	89.72	90	81 - 110	
Cadmium	10.0	8.95	90	87 - 110	
Calcium	5000	4807	96	82 - 114	
Chromium	20.0	18.69	93	84 - 114	
Cobalt	50.0	45.85	92	87 - 110	
Copper	25.0	24.61	98	88 - 110	
Iron	100	101.0	101	87 - 120	
Lead	50.0	47.42	95	86 - 110	
Magnesium	5000	4779	96	90 - 110	
Manganese	50.0	48.48	97	88 - 110	
Molybdenum	100	97.14	97	86 - 110	
Nickel	50.0	47.19	94	87 - 110	
Potassium	5000	4936	99	89 - 110	
Selenium	200	185.3	93	83 - 110	
Silicon	1000	200.2	20	10 - 70	
Silver	5.00	4.89	98	87 - 114	
Sodium	5000	4953	99	90 - 112	
Vanadium	50.0	48.92	98	88 - 110	
Zinc	50.0	47.90	96	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Matrix Spike - Batch: 280-59242

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13857-10	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	03/28/2011 1357	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	5140		192	6914	926	50 - 200	4
Antimony	0.35	U	48.0	28.07	58	20 - 200	
Arsenic	1.6		96.0	81.59	83	76 - 111	
Barium	62.9		192	226.0	85	52 - 159	
Beryllium	0.030	U	4.80	4.00	83	72 - 105	
Boron	0.89	U	96.0	74.81	78	75 - 107	
Cadmium	0.048	B	9.60	7.66	79	40 - 130	
Calcium	5680		4800	10880	108	43 - 165	
Chromium	5.5		19.2	22.60	89	70 - 200	
Cobalt	8.5		48.0	45.76	78	72 - 106	
Copper	14.8		24.0	35.95	88	37 - 187	
Iron	20200		96.0	22000	1875	70 - 200	4
Lead	3.1		48.0	42.85	83	70 - 200	
Magnesium	3910		4800	8577	97	64 - 145	
Manganese	296		48.0	347.9	109	40 - 200	4
Molybdenum	0.24	U	96.0	81.31	85	75 - 103	
Nickel	7.9		48.0	47.91	83	61 - 126	
Potassium	895		4800	5426	94	56 - 172	
Selenium	0.78	U	192	155.7	81	76 - 104	
Silicon	345		960	429.7	9	20 - 200	N
Silver	0.15	U	4.80	4.16	87	75 - 141	
Sodium	283		4800	4967	98	78 - 111	
Vanadium	53.4		48.0	103.4	104	50 - 169	
Zinc	40.0		48.0	81.12	86	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Duplicate - Batch: 280-59242

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13857-10	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59242	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	03/28/2011 1355	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	5140		5367	4	40	
Antimony	0.35	U	0.38	NC	40	U
Arsenic	1.6		1.66	3	30	
Barium	62.9		53.19	17	30	
Beryllium	0.030	U	0.033	NC	30	U
Boron	0.89	U	0.98	NC	30	U
Cadmium	0.048	B	0.0488	1	30	B
Calcium	5680		5214	9	30	
Chromium	5.5		5.82	5	40	
Cobalt	8.5		7.51	12	30	
Copper	14.8		15.00	1	30	
Iron	20200		19720	2	40	
Lead	3.1		3.05	1	40	
Magnesium	3910		4365	11	30	
Manganese	296		284.3	4	40	
Molybdenum	0.24	U	0.26	NC	30	U
Nickel	7.9		9.40	17	30	
Potassium	895		947.4	6	40	
Selenium	0.78	U	0.86	NC	30	U
Silicon	345		574.5	50	40	M
Silver	0.15	U	0.16	NC	30	U
Sodium	283		289.4	2	30	
Vanadium	53.4		51.69	3	30	
Zinc	40.0		38.73	3	40	

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Method Blank - Batch: 280-59225

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-59225/1-A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/30/2011 1156	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-59225

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-59225/2-A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/30/2011 1158	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.404	97	87 - 111	

Matrix Spike - Batch: 280-59225

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13857-10	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.68 g
Analysis Date:	03/30/2011 1230	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0057	U	0.385	0.391	102	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Duplicate - Batch: 280-59225

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13857-10	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59225	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.67 g
Analysis Date:	03/30/2011 1228	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0057	U	0.0052	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-13857-1
Sdg Number: JP0133

Duplicate - Batch: 280-59205

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13857-1	Analysis Batch:	280-59205	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/24/2011 1405	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	3.7	3.5	4	20	

4.9°c 3/24/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-211	Page 1 of 3

Collector: M BLANKENSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~81~~ 88	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 2		SAF No.: RC-074
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-~~0910~~ 3/22/11	COA: R118D22000	Method of Shipment: FEDEX
Shipped To: TestAmerica Incorporated, ~~Richland~~ DENVER	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7945 6703 1657

POSSIBLE SAMPLE HAZARDS/REMARKS
Potential Rad <DOT

Special Handling and/or Storage
Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None	
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	
No. of Container(s)	1	1	1	0	0	0	0	0	1	
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 -- Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen	
Sample No. / Matrix * / Sample Date / Sample Time										RCF
J1FJN4 / SOIL / 3/22/11 / 1210	X			X						27383
J1FJN5 / SOIL / 3/22/11 / 1215	X									
J1FJN6 / SOIL / 3/22/11 / 1220	X									
J1FJN7 / SOIL / 3/22/11 / 1225	X									
J1FJN8 / SOIL / 3/22/11 / 1330	X									

3/10/11

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time 1500 3-22-11	Received By/Stored In	Date/Time 3/22/11 1510
Relinquished By/Removed From	Date/Time 3/22/11 1730	Received By/Stored In	Date/Time 1730 3-22-11
Relinquished By/Removed From	Date/Time 1450 3-23-11	Received By/Stored In	Date/Time Fed Ex
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time 3/24/11 1000
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS
None

(1) ICP Metals - 6010TR (Client List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY 3-23-11 DATE

JP0133

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

04/08/2011

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-211	Page 2 of 3

Collector: M DRENNSHIP	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B D 3/10/11	Data Turnaround: ~~21~~ 5 Days D 3/10/11		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 2		SAF No.: RC-074
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-0810 D 3/22/11	COA: R118D22000	Method of Shipment: FED EX
Shipped To: D 3/10/11 TestAmerica Incorporated, ~~Richland~~ DENVER	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7945 6703 1657

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None	None	
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	1	0	0	0	0	0	1		
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89/90 - Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen		
Sample No. / Matrix * / Sample Date / Sample Time											
J1FJN9 / SOIL / 3/22/11 / 1335	X										
J1FJP0 / SOIL / 3/22/11 / 1340	X										
J1FJP1 / SOIL / 3/22/11 / 1345	X										
J1FJP2 / SOIL / 3/22/11 / 1440	X										
J1FJP3 / SOIL / 3/22/11 / 1445	X										

D 3/10/11

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: MATRIX LANDFILL	3-22-11 1510	Received By/Stored In: D WOOLERY	3/22/11 1510
Relinquished By/Removed From: D WOOLERY	3/22/11 1730	Received By/Stored In: A. Freier	1730 3-22-11
Relinquished By/Removed From: WCH A. Freier	1450 3-23-11	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In:	3/24/11 1000
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-23-11

JP0133

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-211	Page 3 of 3

Collector: M BLAYWHSHIP	Company Contact: D Woolery Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B ② 3/10/11
Data Turnaround: ~~21~~ 7 Days ② 3/10/11			
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 2	SAF No.: RC-074	
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-0010 ② 3/22/11	COA: R118D22000	Method of Shipment: FED EX
Shipped To: ② 3/10/11 TestAmerica Incorporated, ~~Richland~~ DENVER	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7945 6703 1657

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad <DOT

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C	Cool 4C	None	None	None	None	None	None	None	
Type of Container	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	G/P	
No. of Container(s)	1	1	1	0	0	0	0	0	1	
Volume	60mL	60mL	500mL	500mL	500mL	500mL	500mL	500mL	60g	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90; Total Sr	Technetium-99	Carbon-14; Tritium - H3 Low Level Soil	RCF GEA Shipping Screen	
Sample No.	Matrix *	Sample Date	Sample Time							
J1FJP4	SOIL	3/22/11	1450	X						
J1FJP5	SOIL	3/22/11	1455	X						

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MHT Blaywhship	3-22-11 1510	DWoolery	3/22/11 1510
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
DWoolery	3/22/11 1730	A. Freier	3-22-11 1730
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
WCH A. Freier	1450 3-23-11	Fed Ex	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
			3/24/11 1000
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

None

(1) ICP Metals - 6010TR (Client List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)
(2) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108(metastable)}

REVIEWED BY JEB DATE 3-23-11

JP0133

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 -60107R ~~-34715.1.1~~

Analytical Due:

Report Due: 3/31/11 (Rush 5 day TAT)

Sample Check-in List

Date/Time Received: 3/24/11 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: JP0133 NA[ ] SAF #: RC-074 NA [ ]

Job Number: 13857 Chain of Custody # RC-074-211

Shipping Container ID: Air Bill # 794567031679

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 4-9 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 12
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added ___
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: 3/24/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/25/11

From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 23MAR11
ActWgt: 48.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref#
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 2

THU - 24 MAR A1
PRIORITY OVERNIGHT

MPS# 7945 6703 1679
0263
Mstr# 7945 6703 1657 0201

XH WHHA

80002
CO-US
DEN

50DG2/BD09/7EF8

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