0096335

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:

RECEIVED
APR 18 2011
EDMC

SDG JP0135 SAF RC-074

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 118-D-2 Excavation Area 1

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 125 *Pages*

Report No.: 46147

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.
JP0135	RC-074	J1FJM2	J1C230595-1	MF32D1AH	9MF32D10	1083114
		J1FJM2	J1C230595-1	MF32D1AF	9MF32D10	1083115
		J1FJM2	J1C230595-1	MF32D1AC	9MF32D10	1083117
		J1FJM2	J1C230595-1	MF32D1AJ	9MF32D10	1083118
		J1FJM2	J1C230595-1	MF32D1AE	9MF32D10	1083121
		J1FJM2	J1C230595-1	MF32D1AG	9MF32D10	1083123
		J1FJM2	J1C230595-1	MF32D1AD	9MF32D10	1083126
		J1FJM2	J1C230595-1	MF32D1AA	9MF32D10	1087328
		J1FJM3	J1C230595-2	MF3201AH	9MF32010	1083114
		J1FJM3	J1C230595-2	MF3201AF	9MF32010	1083115
		J1FJM3	J1C230595-2	MF3201AC	9MF32010	1083117
		J1FJM3	J1C230595-2	MF3201AJ	9MF32010	1083118
		J1FJM3	J1C230595-2	MF3201AE	9MF32010	1083121
		J1FJM3	J1C230595-2	MF3201AG	9MF32010	1083123
		J1FJM3	J1C230595-2	MF3201AD	9MF32010	1083126
		J1FJM3	J1C230595-2	MF3201AA	9MF32010	1087328
		J1FJM4	J1C230595-3	MF3231AH	9MF32310	1083114
		J1FJM4	J1C230595-3	MF3231AF	9MF32310	1083115
		J1FJM4	J1C230595-3	MF3231AC	9MF32310	1083117
		J1FJM4	J1C230595-3	MF3231AJ	9MF32310	1083118
		J1FJM4	J1C230595-3	MF3231AE	9MF32310	1083121
		J1FJM4	J1C230595-3	MF3231AG	9MF32310	1083123
		J1FJM4	J1C230595-3	MF3231AD	9MF32310	1083126
		J1FJM4	J1C230595-3	MF3231AA	9MF32310	1087328
		J1FJM5	J1C230595-4	MF3241AH	9MF32410	1083114
		J1FJM5	J1C230595-4	MF3241AF	9MF32410	1083115

Report No.: 46147

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
JP0135	RC-074	J1FJM5	J1C230595-4	MF3241AC	9MF32410	1083117
		J1FJM5	J1C230595-4	MF3241AJ	9MF32410	1083118
		J1FJM5	J1C230595-4	MF3241AE	9MF32410	1083121
		J1FJM5	J1C230595-4	MF3241AG	9MF32410	1083123
		J1FJM5	J1C230595-4	MF3241AD	9MF32410	1083126
		J1FJM5	J1C230595-4	MF3241AA	9MF32410	1087328
		J1FJM6	J1C230595-5	MF3271AH	9MF32710	1083114
		J1FJM6	J1C230595-5	MF3271AF	9MF32710	1083115
		J1FJM6	J1C230595-5	MF3271AC	9MF32710	1083117
		J1FJM6	J1C230595-5	MF3271AJ	9MF32710	1083118
		J1FJM6	J1C230595-5	MF3271AE	9MF32710	1083121
		J1FJM6	J1C230595-5	MF3271AG	9MF32710	1083123
		J1FJM6	J1C230595-5	MF3271AD	9MF32710	1083126
		J1FJM6	J1C230595-5	MF3271AA	9MF32710	1087328
		J1FJM7	J1C230595-6	MF3281AH	9MF32810	1083114
		J1FJM7	J1C230595-6	MF3281AF	9MF32810	1083115
		J1FJM7	J1C230595-6	MF3281AC	9MF32810	1083117
		J1FJM7	J1C230595-6	MF3281AJ	9MF32810	1083118
		J1FJM7	J1C230595-6	MF3281AE	9MF32810	1083121
		J1FJM7	J1C230595-6	MF3281AG	9MF32810	1083123
		J1FJM7	J1C230595-6	MF3281AD	9MF32810	1083126
		J1FJM7	J1C230595-6	MF3281AA	9MF32810	1087328
		J1FJM8	J1C230595-7	MF3291AH	9MF32910	1083114
		J1FJM8	J1C230595-7	MF3291AF	9MF32910	1083115
		J1FJM8	J1C230595-7	MF3291AC	9MF32910	1083117
		J1FJM8	J1C230595-7	MF3291AJ	9MF32910	1083118
		J1FJM8	J1C230595-7	MF3291AE	9MF32910	1083121
		J1FJM8	J1C230595-7	MF3291AG	9MF32910	1083123
		J1FJM8	J1C230595-7	MF3291AD	9MF32910	1083126
		J1FJM8	J1C230595-7	MF3291AA	9MF32910	1087328
		J1FJM9	J1C230595-8	MF33A1AH	9MF33A10	1083114
		J1FJM9	J1C230595-8	MF33A1AF	9MF33A10	1083115
		J1FJM9	J1C230595-8	MF33A1AC	9MF33A10	1083117
		J1FJM9	J1C230595-8	MF33A1AJ	9MF33A10	1083118
		J1FJM9	J1C230595-8	MF33A1AE	9MF33A10	1083121
		J1FJM9	J1C230595-8	MF33A1AG	9MF33A10	1083123
		J1FJM9	J1C230595-8	MF33A1AD	9MF33A10	1083126
		J1FJM9	J1C230595-8	MF33A1AA	9MF33A10	1087328

Report No.: 46147

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.
JP0135	RC-074	J1FJN0	J1C230595-9	MF33C1AH	9MF33C10	1083114
		J1FJN0	J1C230595-9	MF33C1AF	9MF33C10	1083115
		J1FJN0	J1C230595-9	MF33C1AC	9MF33C10	1083117
		J1FJN0	J1C230595-9	MF33C1AJ	9MF33C10	1083118
		J1FJN0	J1C230595-9	MF33C1AE	9MF33C10	1083121
		J1FJN0	J1C230595-9	MF33C1AG	9MF33C10	1083123
		J1FJN0	J1C230595-9	MF33C1AD	9MF33C10	1083126
		J1FJN0	J1C230595-9	MF33C1AA	9MF33C10	1087328
		J1FJN1	J1C230595-10	MF33D1AH	9MF33D10	1083114
		J1FJN1	J1C230595-10	MF33D1AF	9MF33D10	1083115
		J1FJN1	J1C230595-10	MF33D1AC	9MF33D10	1083117
		J1FJN1	J1C230595-10	MF33D1AJ	9MF33D10	1083118
		J1FJN1	J1C230595-10	MF33D1AE	9MF33D10	1083121
		J1FJN1	J1C230595-10	MF33D1AG	9MF33D10	1083123
		J1FJN1	J1C230595-10	MF33D1AD	9MF33D10	1083126
		J1FJN1	J1C230595-10	MF33D1AA	9MF33D10	1087328
	RC-074	J1FJN2	J1C230595-11	MF33E1AH	9MF33E10	1083114
		J1FJN2	J1C230595-11	MF33E1AF	9MF33E10	1083115
		J1FJN2	J1C230595-11	MF33E1AC	9MF33E10	1083117
		J1FJN2	J1C230595-11	MF33E1AJ	9MF33E10	1083118
		J1FJN2	J1C230595-11	MF33E1AE	9MF33E10	1083121
		J1FJN2	J1C230595-11	MF33E1AG	9MF33E10	1083123
		J1FJN2	J1C230595-11	MF33E1AD	9MF33E10	1083126
		J1FJN2	J1C230595-11	MF33E1AA	9MF33E10	1087328
		J1FJN3	J1C230595-12	MF33F1AH	9MF33F10	1083114
		J1FJN3	J1C230595-12	MF33F1AF	9MF33F10	1083115
		J1FJN3	J1C230595-12	MF33F1AC	9MF33F10	1083117
		J1FJN3	J1C230595-12	MF33F1AJ	9MF33F10	1083118
		J1FJN3	J1C230595-12	MF33F1AE	9MF33F10	1083121
		J1FJN3	J1C230595-12	MF33F1AG	9MF33F10	1083123
		J1FJN3	J1C230595-12	MF33F1AD	9MF33F10	1083126
		J1FJN3	J1C230595-12	MF33F1AA	9MF33F10	1087328

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	:	JP0135
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
J1FJM2	MF32D	SOIL	03/23/11
J1FJM3	MF320	SOIL	03/23/11
J1FJM4	MF323	SOIL	03/23/11
J1FJM5	MF324	SOIL	03/23/11
J1FJM6	MF327	SOIL	03/23/11
J1FJM7	MF328	SOIL	03/23/11
J1FJM8	MF329	SOIL	03/23/11
J1FJM9	MF33A	SOIL	03/23/11
J1FJN0	MF33C	SOIL	03/23/11
J1FJN1	MF33D	SOIL	03/23/11
J1FJN2	MF33E	SOIL	03/23/11
J1FJN3	MF33F	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 (J1FJM3) results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:
The LCS, batch blank, samples and sample duplicate (J1FJM4) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RL-GPC-003 :
The LCS, batch blank, samples and sample duplicate (J1FJM8) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RL-GAM-001 :
There was insufficient volume for a duplicate. Sample J1FJM2 was recounted on a different detector for the duplicate (J1FJM2 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 (J1FJM2) results are within contractual requirements.

Liquid Scintillation Counting
Tritium by method RL-LSC-005 :
The LCS, batch blank, samples and sample duplicate (J1FJM7) results are within contractual requirements.

Carbon-14 by method RL-LSC-008 :
The LCS, batch blank, samples and sample duplicate (J1FJM5) results are within contractual requirements.

Nickel-63 by method RL-LCS-017 :
The LCS, batch blank, samples and sample duplicate (J1FJM6) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The LCS, batch blank, samples, sample duplicate (J1FJM2) and the sample matrix spike (J1FJM2) 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 Stari
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. : 46147

SDG No: JP0135

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083115	PUISO_PLATE_AEA								
	J1FJM2								
	MF32D1AF	PU-238	-5.70E-03 +- 5.7E-02	U	pCi/g	99%	1.36E-01	1.00E+00	
		PU239/40	-2.85E-03 +- 5.7E-02	U	pCi/g	99%	1.19E-01	1.00E+00	
	J1FJM3								
	MF3201AF	PU-238	-1.92E-03 +- 7.7E-02	U	pCi/g	80%	1.44E-01	1.00E+00	
		PU239/40	-1.92E-03 +- 7.7E-02	U	pCi/g	80%	1.43E-01	1.00E+00	
	J1FJM3 DUP								
	MF3201AK	PU-238	-2.12E-03 +- 8.5E-02	U	pCi/g	74%	1.59E-01	1.00E+00	-10.0
		PU239/40	-2.12E-03 +- 8.5E-02	U	pCi/g	74%	1.58E-01	1.00E+00	-10.0
	J1FJM4								
	MF3231AF	PU-238	-4.26E-03 +- 5.7E-02	U	pCi/g	98%	1.28E-01	1.00E+00	
		PU239/40	-2.84E-03 +- 5.7E-02	U	pCi/g	98%	1.19E-01	1.00E+00	
	J1FJM5								
	MF3241AF	PU-238	-1.87E-03 +- 7.5E-02	U	pCi/g	89%	1.40E-01	1.00E+00	
		PU239/40	0.00E+00 +- 7.5E-02	U	pCi/g	89%	1.40E-01	1.00E+00	
	J1FJM6								
	MF3271AF	PU-238	6.75E-02 +- 9.7E-02	U	pCi/g	84%	1.27E-01	1.00E+00	
		PU239/40	2.31E-01 +- 1.9E-01		pCi/g	84%	1.52E-01	1.00E+00	
	J1FJM7								
	MF3281AF	PU-238	0.00E+00 +- 7.4E-02	U	pCi/g	91%	1.38E-01	1.00E+00	
		PU239/40	3.68E-02 +- 7.4E-02	U	pCi/g	91%	1.38E-01	1.00E+00	
	J1FJM8								
	MF3291AF	PU-238	1.06E-01 +- 1.3E-01	U	pCi/g	93%	1.35E-01	1.00E+00	
		PU239/40	1.84E+00 +- 6.6E-01		pCi/g	93%	1.51E-01	1.00E+00	
	J1FJM9								
	MF33A1AF	PU-238	3.36E-02 +- 6.8E-02	U	pCi/g	86%	1.26E-01	1.00E+00	
		PU239/40	4.03E-01 +- 2.5E-01		pCi/g	86%	1.26E-01	1.00E+00	
	J1FJN0								
	MF33C1AF	PU-238	0.00E+00 +- 7.0E-02	U	pCi/g	100%	1.30E-01	1.00E+00	
		PU239/40	-1.73E-03 +- 7.0E-02	U	pCi/g	100%	1.30E-01	1.00E+00	
	J1FJN1								
	MF33D1AF	PU-238	0.00E+00 +- 7.4E-02	U	pCi/g	91%	1.38E-01	1.00E+00	
		PU239/40	3.49E-02 +- 7.4E-02	U	pCi/g	91%	1.38E-01	1.00E+00	
	J1FJN2								
	MF33E1AF	PU-238	3.05E-02 +- 6.5E-02	U	pCi/g	91%	1.20E-01	1.00E+00	
		PU239/40	-1.58E-03 +- 6.4E-02	U	pCi/g	91%	1.20E-01	1.00E+00	
	J1FJN3								
	MF33F1AF	PU-238	0.00E+00 +- 8.7E-02	U	pCi/g	89%	1.63E-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

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46147

SDG No: JP0135

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083115	PUISO_PLATE_AEA								
	J1FJN3								
	MF33F1AF	PU239/40	0.00E+00 +- 8.7E-02	U	pCi/g	89%	1.63E-01	1.00E+00	
1083117	UISO_IE_PLATE_AEA								
	J1FJM2								
	MF32D1AC	U-234	6.59E-02 +- 8.1E-02	U	pCi/g	98%	1.04E-01	1.00E+00	
		U-235	0.00E+00 +- 4.6E-02	U	pCi/g	98%	8.67E-02	1.00E+00	
		U-238	6.82E-02 +- 8.1E-02	U	pCi/g	98%	8.67E-02	1.00E+00	
	J1FJM3								
	MF3201AC	U-234	2.05E-01 +- 1.5E-01		pCi/g	85%	1.09E-01	1.00E+00	
		U-235	-1.30E-03 +- 5.2E-02	U	pCi/g	85%	9.75E-02	1.00E+00	
		U-238	7.40E-02 +- 9.1E-02	U	pCi/g	85%	1.17E-01	1.00E+00	
	J1FJM4								
	MF3231AC	U-234	2.86E-01 +- 2.0E-01		pCi/g	72%	1.19E-01	1.00E+00	
		U-235	3.02E-02 +- 6.4E-02	U	pCi/g	72%	1.19E-01	1.00E+00	
		U-238	4.74E-01 +- 2.7E-01		pCi/g	72%	1.33E-01	1.00E+00	
	J1FJM4 DUP								
	MF3231AK	U-234	3.56E-01 +- 2.2E-01		pCi/g	81%	1.25E-01	1.00E+00	21.7
		U-235	2.87E-02 +- 6.0E-02	U	pCi/g	81%	1.09E-01	1.00E+00	5.1
		U-238	8.90E-02 +- 1.1E-01	U	pCi/g	81%	1.01E-01	1.00E+00	136.7
	J1FJM5								
	MF3241AC	U-234	2.86E-01 +- 2.2E-01		pCi/g	78%	1.67E-01	1.00E+00	
		U-235	-2.19E-03 +- 7.3E-02	U	pCi/g	78%	1.40E-01	1.00E+00	
		U-238	2.87E-01 +- 2.2E-01		pCi/g	78%	1.57E-01	1.00E+00	
	J1FJM6								
	MF3271AC	U-234	1.25E-01 +- 1.3E-01	U	pCi/g	86%	1.85E-01	1.00E+00	
		U-235	-1.29E-02 +- 5.8E-02	U	pCi/g	86%	1.67E-01	1.00E+00	
		U-238	2.03E-01 +- 1.7E-01	U	pCi/g	86%	2.04E-01	1.00E+00	
	J1FJM7								
	MF3281AC	U-234	4.51E-02 +- 7.6E-02	U	pCi/g	89%	1.40E-01	1.00E+00	
		U-235	2.12E-02 +- 5.4E-02	U	pCi/g	89%	1.27E-01	1.00E+00	
		U-238	9.95E-02 +- 1.1E-01	U	pCi/g	89%	1.34E-01	1.00E+00	
	J1FJM8								
	MF3291AC	U-234	2.18E-01 +- 2.1E-01		pCi/g	50%	2.02E-01	1.00E+00	
		U-235	0.00E+00 +- 9.0E-02	U	pCi/g	50%	1.68E-01	1.00E+00	
		U-238	2.67E-01 +- 2.3E-01		pCi/g	50%	1.68E-01	1.00E+00	
	J1FJM9								
	MF33A1AC	U-234	3.26E-01 +- 2.3E-01		pCi/g	61%	1.37E-01	1.00E+00	
		U-235	-1.83E-03 +- 7.3E-02	U	pCi/g	61%	1.37E-01	1.00E+00	

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Sample Results Summary

Date: 06-Apr-11

TestAmerica TARL

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

Report No. : 46147

SDG No: JP0135

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083117 UISO_IE_PLATE_AEA									
J1FJM9									
	MF33A1AC	U-238	2.50E-01 +- 2.0E-01		pCi/g	61%	1.64E-01	1.00E+00	
J1FJN0									
	MF33C1AC	U-234	2.11E-01 +- 1.6E-01		pCi/g	86%	9.91E-02	1.00E+00	
		U-235	-1.32E-03 +- 5.3E-02	U	pCi/g	86%	9.91E-02	1.00E+00	
		U-238	1.30E-01 +- 1.2E-01		pCi/g	86%	1.11E-01	1.00E+00	
J1FJN1									
	MF33D1AC	U-234	9.62E-02 +- 1.2E-01	U	pCi/g	73%	1.39E-01	1.00E+00	
		U-235	-1.33E-03 +- 6.6E-02	U	pCi/g	73%	1.21E-01	1.00E+00	
		U-238	3.25E-02 +- 6.7E-02	U	pCi/g	73%	1.12E-01	1.00E+00	
J1FJN2									
	MF33E1AC	U-234	7.28E-02 +- 1.1E-01	U	pCi/g	71%	1.81E-01	1.00E+00	
		U-235	-2.38E-03 +- 7.9E-02	U	pCi/g	71%	1.52E-01	1.00E+00	
		U-238	2.72E-01 +- 2.2E-01		pCi/g	71%	1.71E-01	1.00E+00	
J1FJN3									
	MF33F1AC	U-234	2.52E-01 +- 1.7E-01		pCi/g	100%	1.49E-01	1.00E+00	
		U-235	1.45E-02 +- 4.9E-02	U	pCi/g	100%	1.36E-01	1.00E+00	
		U-238	7.60E-02 +- 9.8E-02	U	pCi/g	100%	1.69E-01	1.00E+00	
1083114 GAMMA_GS									
J1FJM2									
	MF32D1AH	AG-108M	1.80E-04 +- 1.2E-02	U	pCi/g		2.14E-02		
		AMERICIUM 241	-1.91E-02 +- 3.0E-02	U	pCi/g		4.77E-02		
		CO-60	-1.10E-02 +- 1.8E-02	U	pCi/g		3.00E-02	5.00E-02	
		CS-137	3.53E-02 +- 1.9E-02	U	pCi/g		3.58E-02	1.00E-01	
		EU-152	-6.77E-04 +- 4.5E-02	U	pCi/g		7.80E-02	1.00E-01	
		EU-154	8.85E-03 +- 5.6E-02	U	pCi/g		1.00E-01	1.00E-01	
		EU-155	4.22E-02 +- 4.0E-02	U	pCi/g		6.94E-02	1.00E-01	
J1FJM2 DUP									
	MF32D1AK	AG-108M	-1.08E-03 +- 1.7E-02	U	pCi/g		2.87E-02		-280.1
		AMERICIUM 241	-2.58E-02 +- 3.6E-02	U	pCi/g		5.77E-02		-30.1
		CO-60	1.76E-02 +- 2.1E-02	U	pCi/g		3.89E-02	5.00E-02	863.3
		CS-137	2.50E-02 +- 2.3E-02	U	pCi/g		4.12E-02	1.00E-01	34.1
		EU-152	-7.74E-02 +- 6.2E-02	U	pCi/g		8.57E-02	1.00E-01	-196.5
		EU-154	-3.27E-03 +- 6.3E-02	U	pCi/g		1.11E-01	1.00E-01	434.5
		EU-155	4.71E-03 +- 5.1E-02	U	pCi/g		8.69E-02	1.00E-01	159.9
J1FJM3									
	MF3201AH	AG-108M	-1.83E-03 +- 9.3E-03	U	pCi/g		1.59E-02		
		AMERICIUM 241	-2.58E-02 +- 8.5E-02	U	pCi/g		1.41E-01		

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Sample Results Summary

Date: 06-Apr-11

TestAmerica TARL

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

Report No. : 46147

SDG No: JP0135

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083114	GAMMA_GS								
J1FJM3									
	MF3201AH	CO-60	7.55E-04 +- 1.3E-02	U	pCi/g		2.40E-02	5.00E-02	
		CS-137	2.95E-02 +- 1.5E-02	U	pCi/g		2.79E-02	1.00E-01	
		EU-152	-1.02E-02 +- 3.2E-02	U	pCi/g		5.29E-02	1.00E-01	
		EU-154	-1.36E-02 +- 4.7E-02	U	pCi/g		7.99E-02	1.00E-01	
		EU-155	1.40E-02 +- 3.5E-02	U	pCi/g		6.08E-02	1.00E-01	
J1FJM4									
	MF3231AH	AG-108M	-2.26E-03 +- 1.7E-02	U	pCi/g		2.88E-02		
		AMERICIUM 241	-1.88E-02 +- 3.6E-02	U	pCi/g		5.95E-02		
		CO-60	-8.65E-03 +- 2.0E-02	U	pCi/g		3.32E-02	5.00E-02	
		CS-137	1.93E-02 +- 2.2E-02	U	pCi/g		4.04E-02	1.00E-01	
		EU-152	4.95E-02 +- 5.9E-02	U	pCi/g		9.43E-02	1.00E-01	
		EU-154	2.73E-02 +- 6.2E-02	U	pCi/g		1.14E-01	1.00E-01	
		EU-155	4.94E-02 +- 5.0E-02	U	pCi/g		8.72E-02	1.00E-01	
J1FJM5									
	MF3241AH	AG-108M	-5.19E-03 +- 1.5E-02	U	pCi/g		2.48E-02		
		AMERICIUM 241	-5.73E-03 +- 6.1E-02	U	pCi/g		1.03E-01		
		CO-60	-4.32E-03 +- 1.8E-02	U	pCi/g		3.20E-02	5.00E-02	
		CS-137	5.76E-02 +- 2.6E-02		pCi/g		3.47E-02	1.00E-01	
		EU-152	5.76E-03 +- 4.6E-02	U	pCi/g		7.86E-02	1.00E-01	
		EU-154	1.25E-02 +- 6.4E-02	U	pCi/g		1.15E-01	1.00E-01	
		EU-155	2.30E-02 +- 4.7E-02	U	pCi/g		8.00E-02	1.00E-01	
J1FJM6									
	MF3271AH	AG-108M	-1.45E-02 +- 1.9E-02	U	pCi/g		3.20E-02		
		AMERICIUM 241	1.19E-02 +- 9.8E-02	U	pCi/g		1.62E-01		
		CO-60	3.71E-02 +- 1.7E-02	U	pCi/g		3.27E-02	5.00E-02	
		CS-137	2.79E+00 +- 3.6E-01		pCi/g		2.81E-02	1.00E-01	
		EU-152	-1.47E-02 +- 7.3E-02	U	pCi/g		9.77E-02	1.00E-01	
		EU-154	-3.74E-02 +- 4.7E-02	U	pCi/g		7.56E-02	1.00E-01	
		EU-155	2.65E-02 +- 7.6E-02	U	pCi/g		1.28E-01	1.00E-01	
J1FJM7									
	MF3281AH	AG-108M	-3.49E-03 +- 1.5E-02	U	pCi/g		2.57E-02		
		AMERICIUM 241	-7.54E-02 +- 8.3E-02	U	pCi/g		1.33E-01		
		CO-60	1.83E-02 +- 1.7E-02	U	pCi/g		3.15E-02	5.00E-02	
		CS-137	3.13E-01 +- 5.6E-02		pCi/g		2.77E-02	1.00E-01	
		EU-152	-3.44E-02 +- 6.6E-02	U	pCi/g		8.04E-02	1.00E-01	
		EU-154	3.17E-02 +- 5.0E-02	U	pCi/g		9.09E-02	1.00E-01	
		EU-155	2.99E-02 +- 5.9E-02	U	pCi/g		1.01E-01	1.00E-01	

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Sample Results Summary

Date: 06-Apr-11

TestAmerica TARL

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

Report No. : 46147

SDG No: JP0135

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083114	GAMMA_GS								
	J1FJM8								
	MF3291AH	AG-108M	1.52E-02 +- 2.9E-02	U	pCi/g		4.88E-02		
		AMERICIUM 241	3.86E-01 +- 1.4E-01		pCi/g		1.26E-01		
		CO-60	4.15E-02 +- 2.1E-02	U	pCi/g		4.22E-02	5.00E-02	
		CS-137	7.85E+00 +- 9.9E-01		pCi/g		4.08E-02	1.00E-01	
		EU-152	3.01E-03 +- 7.7E-02	U	pCi/g		1.28E-01	1.00E-01	
		EU-154	-3.59E-02 +- 5.9E-02	U	pCi/g		9.94E-02	1.00E-01	
		EU-155	2.52E-02 +- 6.4E-02	U	pCi/g		1.07E-01	1.00E-01	
	J1FJM9								
	MF33A1AH	AG-108M	-2.37E-03 +- 1.3E-02	U	pCi/g		2.15E-02		
		AMERICIUM 241	1.96E-02 +- 8.5E-02	U	pCi/g		1.44E-01		
		CO-60	1.53E-02 +- 1.4E-02	U	pCi/g		2.69E-02	5.00E-02	
		CS-137	2.52E+00 +- 3.2E-01		pCi/g		2.19E-02	1.00E-01	
		EU-152	-4.44E-03 +- 3.9E-02	U	pCi/g		6.49E-02	1.00E-01	
		EU-154	8.11E-03 +- 4.0E-02	U	pCi/g		7.03E-02	1.00E-01	
		EU-155	1.17E-02 +- 3.8E-02	U	pCi/g		6.54E-02	1.00E-01	
	J1FJN0								
	MF33C1AH	AG-108M	-1.59E-02 +- 1.5E-02	U	pCi/g		2.36E-02		
		AMERICIUM 241	3.01E-02 +- 3.4E-02	U	pCi/g		5.83E-02		
		CO-60	-3.50E-03 +- 1.8E-02	U	pCi/g		3.15E-02	5.00E-02	
		CS-137	5.94E-04 +- 2.0E-02	U	pCi/g		3.52E-02	1.00E-01	
		EU-152	1.21E-02 +- 5.0E-02	U	pCi/g		8.71E-02	1.00E-01	
		EU-154	-6.83E-02 +- 5.9E-02	U	pCi/g		9.30E-02	1.00E-01	
		EU-155	3.38E-02 +- 4.8E-02	U	pCi/g		8.29E-02	1.00E-01	
	J1FJN1								
	MF33D1AH	AG-108M	2.26E-03 +- 8.1E-03	U	pCi/g		1.43E-02		
		AMERICIUM 241	7.27E-02 +- 7.2E-02	U	pCi/g		1.26E-01		
		CO-60	-4.68E-03 +- 1.1E-02	U	pCi/g		1.84E-02	5.00E-02	
		CS-137	1.76E-01 +- 4.0E-02		pCi/g		1.78E-02	1.00E-01	
		EU-152	3.16E-04 +- 3.0E-02	U	pCi/g		5.05E-02	1.00E-01	
		EU-154	-1.65E-03 +- 3.5E-02	U	pCi/g		6.25E-02	1.00E-01	
		EU-155	5.31E-02 +- 3.1E-02	U	pCi/g		5.61E-02	1.00E-01	
	J1FJN2								
	MF33E1AH	AG-108M	5.89E-03 +- 1.6E-02	U	pCi/g		2.77E-02		
		AMERICIUM 241	-2.38E-02 +- 3.3E-02	U	pCi/g		5.34E-02		
		CO-60	-2.00E-02 +- 2.0E-02	U	pCi/g		3.11E-02	5.00E-02	
		CS-137	2.83E-02 +- 2.2E-02	U	pCi/g		3.97E-02	1.00E-01	
		EU-152	3.19E-02 +- 5.8E-02	U	pCi/g		8.97E-02	1.00E-01	

TestAmerica

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Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46147

SDG No: JP0135

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083114 GAMMA_GS									
J1FJN2									
	MF33E1AH	EU-154	2.85E-02 +- 6.1E-02	U	pCi/g		1.11E-01	1.00E-01	
		EU-155	2.49E-02 +- 4.8E-02	U	pCi/g		8.20E-02	1.00E-01	
J1FJN3									
	MF33F1AH	AG-108M	-5.47E-03 +- 1.3E-02	U	pCi/g		2.29E-02		
		AMERICIUM 241	5.98E-04 +- 6.0E-02	U	pCi/g		9.97E-02		
		CO-60	8.32E-03 +- 1.6E-02	U	pCi/g		3.15E-02	5.00E-02	
		CS-137	4.60E-02 +- 3.4E-02		pCi/g		2.98E-02	1.00E-01	
		EU-152	-4.23E-03 +- 4.5E-02	U	pCi/g		7.54E-02	1.00E-01	
		EU-154	8.58E-03 +- 5.4E-02	U	pCi/g		9.84E-02	1.00E-01	
		EU-155	6.73E-03 +- 4.5E-02	U	pCi/g		7.74E-02	1.00E-01	
1083126 SRTOT_SEP_PRECIP_GPC									
J1FJM2									
	MF32D1AD	STRONTIUM	7.43E-02 +- 9.1E-02	U	pCi/g	61%	1.91E-01		
J1FJM3									
	MF3201AD	STRONTIUM	4.58E-01 +- 1.7E-01		pCi/g	59%	1.86E-01		
J1FJM4									
	MF3231AD	STRONTIUM	5.32E-01 +- 1.9E-01		pCi/g	52%	1.98E-01		
J1FJM5									
	MF3241AD	STRONTIUM	4.12E-02 +- 9.2E-02	U	pCi/g	49%	2.06E-01		
J1FJM6									
	MF3271AD	STRONTIUM	5.70E+01 +- 1.5E+01		pCi/g	56%	1.84E-01		
J1FJM7									
	MF3281AD	STRONTIUM	2.57E-01 +- 1.3E-01		pCi/g	53%	1.93E-01		
J1FJM8									
	MF3291AD	STRONTIUM	1.38E+01 +- 3.6E+00		pCi/g	48%	2.20E-01		
J1FJM8 DUP									
	MF3291AK	STRONTIUM	1.50E+01 +- 4.0E+00		pCi/g	45%	2.39E-01		8.4
J1FJM9									
	MF33A1AD	STRONTIUM	4.43E+00 +- 1.2E+00		pCi/g	50%	2.07E-01		
J1FJN0									
	MF33C1AD	STRONTIUM	3.17E+00 +- 8.7E-01		pCi/g	58%	1.92E-01		
J1FJN1									
	MF33D1AD	STRONTIUM	5.61E-01 +- 2.0E-01		pCi/g	53%	1.85E-01		
J1FJN2									
	MF33E1AD	STRONTIUM	3.15E-01 +- 1.4E-01		pCi/g	54%	1.95E-01		
J1FJN3									
	MF33F1AD	STRONTIUM	1.26E-01 +- 9.1E-02	U	pCi/g	65%	1.67E-01		

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Sample Results Summary

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46147

SDG No: JP0135

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083118 C14_CHEM_LSC									
J1FJM2									
	MF32D1AJ	C-14	7.08E-02 +- 2.1E-01	U	pCi/g	100%	4.69E-01	5.00E+01	
J1FJM3									
	MF3201AJ	C-14	-5.61E-02 +- 2.1E-01	U	pCi/g	100%	4.69E-01	5.00E+01	
J1FJM4									
	MF3231AJ	C-14	2.21E-02 +- 2.1E-01	U	pCi/g	100%	4.69E-01	5.00E+01	
J1FJM5									
	MF3241AJ	C-14	-6.15E-03 +- 2.1E-01	U	pCi/g	100%	4.69E-01	5.00E+01	
J1FJM5 DUP									
	MF3241AK	C-14	2.76E-02 +- 2.1E-01	U	pCi/g	100%	4.72E-01	5.00E+01	314.3
J1FJM6									
	MF3271AJ	C-14	4.24E-02 +- 2.1E-01	U	pCi/g	100%	4.67E-01	5.00E+01	
J1FJM7									
	MF3281AJ	C-14	-1.18E-01 +- 2.0E-01	U	pCi/g	100%	4.68E-01	5.00E+01	
J1FJM8									
	MF3291AJ	C-14	9.95E-01 +- 2.6E-01		pCi/g	100%	4.72E-01	5.00E+01	
J1FJM9									
	MF33A1AJ	C-14	-7.04E-02 +- 2.1E-01	U	pCi/g	100%	4.73E-01	5.00E+01	
J1FJN0									
	MF33C1AJ	C-14	2.67E-01 +- 2.2E-01	U	pCi/g	100%	4.70E-01	5.00E+01	
J1FJN1									
	MF33D1AJ	C-14	3.79E-01 +- 2.3E-01	U	pCi/g	100%	4.70E-01	5.00E+01	
J1FJN2									
	MF33E1AJ	C-14	-1.37E-02 +- 2.1E-01	U	pCi/g	100%	4.69E-01	5.00E+01	
J1FJN3									
	MF33F1AJ	C-14	3.47E-03 +- 2.1E-01	U	pCi/g	100%	4.72E-01	5.00E+01	
1083121 NI63_LSC									
J1FJM2									
	MF32D1AE	NI-63	-5.04E-01 +- 4.7E+00	U	pCi/g	98%	1.04E+01	3.00E+01	
J1FJM3									
	MF3201AE	NI-63	6.70E-01 +- 4.9E+00	U	pCi/g	95%	1.06E+01	3.00E+01	
J1FJM4									
	MF3231AE	NI-63	3.23E+00 +- 5.0E+00	U	pCi/g	97%	1.04E+01	3.00E+01	
J1FJM5									
	MF3241AE	NI-63	3.83E+00 +- 5.0E+00	U	pCi/g	95%	1.03E+01	3.00E+01	
J1FJM6									
	MF3271AE	NI-63	4.50E+00 +- 5.1E+00	U	pCi/g	94%	1.03E+01	3.00E+01	
J1FJM6 DUP									
	MF3271AK	NI-63	2.73E+00 +- 5.0E+00	U	pCi/g	97%	1.05E+01	3.00E+01	49.0

TestAmerica RPD - Relative Percent Difference.

rptSTLRchSaSummary2 V5.2.12 A2002

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. : 46147

SDG No: JP0135

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083121 NI63_LSC									
	J1FJM7								
	MF3281AE	NI-63	4.99E+00 +- 5.2E+00	U	pCi/g	96%	1.05E+01	3.00E+01	
	J1FJM8								
	MF3291AE	NI-63	1.06E+00 +- 5.0E+00	U	pCi/g	95%	1.06E+01	3.00E+01	
	J1FJM9								
	MF33A1AE	NI-63	4.84E+00 +- 4.9E+00	U	pCi/g	98%	9.98E+00	3.00E+01	
	J1FJN0								
	MF33C1AE	NI-63	1.20E+00 +- 4.9E+00	U	pCi/g	92%	1.06E+01	3.00E+01	
	J1FJN1								
	MF33D1AE	NI-63	4.85E+00 +- 5.1E+00	U	pCi/g	95%	1.03E+01	3.00E+01	
	J1FJN2								
	MF33E1AE	NI-63	5.54E+00 +- 5.7E+00	U	pCi/g	85%	1.14E+01	3.00E+01	
	J1FJN3								
	MF33F1AE	NI-63	3.61E+00 +- 5.3E+00	U	pCi/g	88%	1.11E+01	3.00E+01	
1083123 906.0_H3_LSC									
	J1FJM2								
	MF32D1AG	H-3	2.82E-02 +- 6.6E-03		pCi/g	100%	1.26E-02	4.00E+02	
	J1FJM3								
	MF3201AG	H-3	1.02E-01 +- 1.5E-02		pCi/g	100%	2.56E-02	4.00E+02	
	J1FJM4								
	MF3231AG	H-3	3.45E-02 +- 9.3E-03		pCi/g	100%	1.80E-02	4.00E+02	
	J1FJM5								
	MF3241AG	H-3	4.74E-02 +- 9.4E-03		pCi/g	100%	1.72E-02	4.00E+02	
	J1FJM6								
	MF3271AG	H-3	1.21E+00 +- 4.3E-02		pCi/g	100%	1.41E-02	4.00E+02	
	J1FJM7								
	MF3281AG	H-3	6.63E-02 +- 1.2E-02		pCi/g	100%	2.04E-02	4.00E+02	
	J1FJM7 DUP								
	MF3281AK	H-3	7.63E-02 +- 1.6E-02		pCi/g	100%	2.87E-02	4.00E+02	14.1
	J1FJM8								
	MF3291AG	H-3	3.55E-02 +- 9.7E-03		pCi/g	100%	1.88E-02	4.00E+02	
	J1FJM9								
	MF33A1AG	H-3	8.20E-01 +- 3.2E-02		pCi/g	100%	1.38E-02	4.00E+02	
	J1FJN0								
	MF33C1AG	H-3	2.90E-02 +- 1.1E-02		pCi/g	100%	2.28E-02	4.00E+02	
	J1FJN1								
	MF33D1AG	H-3	2.95E+00 +- 9.3E-02		pCi/g	100%	1.48E-02	4.00E+02	
	J1FJN2								
	MF33E1AG	H-3	2.58E-02 +- 6.5E-03		pCi/g	100%	1.24E-02	4.00E+02	

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

TestAmerica TARL

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

Date: 06-Apr-11

Report No. : 46147

SDG No: JP0135

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1083123	906.0_H3_LSC								
	J1FJN3								
	MF33F1AG	H-3	2.10E-02 +- 6.3E-03		pCi/g	100%	1.25E-02	4.00E+02	
1087328	7196_CR6								
	J1FJM2								
	MF32D1AA	HEXCHROME	1.59E-01 +- 0.0E+00		mg/kg	N/A	1.52E-01	1.55E-01	
	MF32D1AN	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	3.50E-01	3.8
	J1FJM3								
	MF3201AA	HEXCHROME	2.36E-01 +- 0.0E+00		mg/kg	N/A	1.50E-01	1.55E-01	
	J1FJM4								
	MF3231AA	HEXCHROME	1.48E-01 +- 0.0E+00	U	mg/kg	N/A	1.48E-01	1.55E-01	
	J1FJM5								
	MF3241AA	HEXCHROME	1.96E-01 +- 0.0E+00		mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJM6								
	MF3271AA	HEXCHROME	1.47E-01 +- 0.0E+00	U	mg/kg	N/A	1.47E-01	1.55E-01	
	J1FJM7								
	MF3281AA	HEXCHROME	2.28E-01 +- 0.0E+00		mg/kg	N/A	1.52E-01	1.55E-01	
	J1FJM8								
	MF3291AA	HEXCHROME	1.60E-01 +- 0.0E+00		mg/kg	N/A	1.53E-01	1.55E-01	
	J1FJM9								
	MF33A1AA	HEXCHROME	1.51E-01 +- 0.0E+00		mg/kg	N/A	1.51E-01	1.55E-01	
	J1FJN0								
	MF33C1AA	HEXCHROME	2.95E-01 +- 0.0E+00		mg/kg	N/A	1.50E-01	1.55E-01	
	J1FJN1								
	MF33D1AA	HEXCHROME	1.48E-01 +- 0.0E+00	U	mg/kg	N/A	1.48E-01	1.55E-01	
	J1FJN2								
	MF33E1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJN3								
	MF33F1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	

No. of Results: 221

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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.

QC Results Summary

Date: 06-Apr-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46147

SDG No.: JP0135

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
PUISO_PLATE_AEA								
1083115 BLANK QC,								
MF4G51AA	PU-238	0.00E+00 +- 8.1E-02	U	pCi/g	93%			1.51E-01
	PU239/40	0.00E+00 +- 8.1E-02	U	pCi/g	93%			1.51E-01
1083115 LCS,								
MF4G51AC	PU239/40	7.75E+00 +- 2.0E+00		pCi/g	90%	112%	0.1	1.52E-01
UISO_IE_PLATE_AEA								
1083117 BLANK QC,								
MF4G71AA	U-234	2.10E-02 +- 6.1E-02	U	pCi/g	80%			1.57E-01
	U-235	-6.00E-03 +- 6.0E-02	U	pCi/g	80%			1.43E-01
	U-238	-6.00E-03 +- 6.0E-02	U	pCi/g	80%			1.43E-01
1083117 LCS,								
MF4G71AC	U-234	3.59E+00 +- 9.6E-01		pCi/g	84%	112%	0.1	1.19E-01
	U-238	3.14E+00 +- 8.7E-01		pCi/g	84%	93%	-0.1	9.90E-02
GAMMA_GS								
1083114 BLANK QC,								
MF4G41AA	AG-108M	3.86E-03 +- 9.6E-03	U	pCi/g				1.74E-02
	AMERICIUM 241	-4.90E-02 +- 4.3E-02	U	pCi/g				6.86E-02
	CO-60	1.21E-02 +- 1.1E-02	U	pCi/g				2.28E-02
	CS-137	1.11E-02 +- 1.1E-02	U	pCi/g				2.07E-02
	EU-152	-4.43E-03 +- 3.9E-02	U	pCi/g				5.58E-02
	EU-154	-2.95E-03 +- 2.7E-02	U	pCi/g				4.96E-02
	EU-155	6.77E-03 +- 3.2E-02	U	pCi/g				5.45E-02
1083114 LCS,								
MF4G41AC	CS-137	1.09E+00 +- 1.5E-01		pCi/g		101%	0.0	3.34E-02
SRTOT_SEP_PRECIP_GPC								
1083126 BLANK QC,								
MF4HK1AA	STRONTIUM	-6.12E-02 +- 4.8E-02	U	pCi/g	94%			1.27E-01
1083126 LCS,								
MF4HK1AC	STRONTIUM	9.47E-01 +- 2.7E-01		pCi/g	94%	84%	-0.2	1.22E-01
C14_CHEM_LSC								
1083118 BLANK QC,								
MF4G91AA	C-14	-6.26E-04 +- 5.3E-03	U	pCi/g	100%			1.18E-02
1083118 LCS,								
MF4G91AC	C-14	7.13E+00 +- 5.2E-01		pCi/g	100%	97%	0.0	4.75E-01
NI63_LSC								
1083121 BLANK QC,								
MF4HC1AA	NI-63	1.36E-01 +- 5.0E+00	U	pCi/g	90%			1.08E+01
1083121 LCS,								
MF4HC1AC	NI-63	4.73E+02 +- 4.7E+01		pCi/g	93%	89%	-0.1	1.13E+01
906.0_H3_LSC								
1083123 BLANK QC,								

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A2002

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. : 46147

SDG No.: JP0135

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
MF4HG1AA	H-3	4.60E-02 +- 2.4E-02	U	pCi/g	100%			4.96E-02
1083123 LCS,								
MF4HG1AC	H-3	2.69E-01 +- 2.5E-02		pCi/g	100%	105%	0.0	3.31E-02
7196_CR6								
1087328 MATRIX SPIKE, J1FJM2								
MF32D1AL	HEXCHROME	8.83E+00 +- 0.0E+00		mg/kg	N/A	87%	-0.1	1.52E-01
1087328 LCS,								
MF9J41AC	HEXCHROME	1.99E+01 +- 0.0E+00		mg/kg	N/A	99%	0.0	1.55E-01
1087328 BLANK QC,								
MF9J41AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 27

TestAmerica
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A2002

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:**	JP0135	**Collection Date:**	3/23/2011 7:50:00 AM
Lot-Sample No.:	J1C230595-1	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM2	**COC No. :**	RC-074-210	**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: 1083114	GAMMA_GS			**Work Order:** MF32D1AH			**Report DB ID:** 9MF32D10					
AG-108M	***1.80E-04***	U	1.2E-02	1.2E-02	2.14E-02	pCi/g		*0.01*	3/26/11 01:12 p		390.9	GER15$1
								0.03			g	
AMERICIUM 241	***-1.91E-02***	U	3.0E-02	3.0E-02	4.77E-02	pCi/g		*-0.4*	3/26/11 01:12 p		390.9	GER15$1
								-(1.3)			g	
CO-60	***-1.10E-02***	U	1.8E-02	1.8E-02	3.00E-02	pCi/g		*-0.37*	3/26/11 01:12 p		390.9	GER15$1
							5.00E-02	*-(1.2)*			g	
CS-137	***3.53E-02***	U	1.9E-02	1.9E-02	3.58E-02	pCi/g		*0.99*	3/26/11 01:12 p		390.9	GER15$1
							1.00E-01	*(3.7)*			g	
EU-152	***-6.77E-04***	U	4.5E-02	4.5E-02	7.80E-02	pCi/g		*-0.01*	3/26/11 01:12 p		390.9	GER15$1
							1.00E-01	*-0.03*			g	
EU-154	***8.85E-03***	U	5.6E-02	5.6E-02	1.00E-01	pCi/g		*0.09*	3/26/11 01:12 p		390.9	GER15$1
							1.00E-01	*0.32*			g	
EU-155	***4.22E-02***	U	4.0E-02	4.0E-02	6.94E-02	pCi/g		*0.61*	3/26/11 01:12 p		390.9	GER15$1
							1.00E-01	*(2.1)*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF32D1AF			**Report DB ID:** 9MF32D10					
PU-238	***-5.70E-03***	U	5.7E-02	5.7E-02	1.36E-01	pCi/g	99%	*-0.04*	4/5/11 12:06 p		1.01	ALP38
						2.96E-02	1.00E+00	*-0.2*			g	
PU239/40	***-2.85E-03***	U	5.7E-02	5.7E-02	1.19E-01	pCi/g	99%	*-0.02*	4/5/11 12:06 p		1.01	ALP38
						2.09E-02	1.00E+00	*-0.1*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF32D1AC			**Report DB ID:** 9MF32D10					

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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.

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0135	Collection Date:	3/23/2011 7:50:00 AM
Lot-Sample No.:	J1C230595-1	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM2	COC No. :	RC-074-210	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	***6.59E-02***	U	8.0E-02	8.1E-02	1.04E-01	pCi/g	98%	*0.63*	4/2/11 09:57 a		1.0	ALP9
						2.08E-02	1.00E+00	*(1.6)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.6E-02	8.67E-02	pCi/g	98%	*0.*	4/2/11 09:57 a		1.0	ALP9
						1.20E-02	1.00E+00	*0.*			g	
U-238	***6.82E-02***	U	8.0E-02	8.1E-02	8.67E-02	pCi/g	98%	*0.79*	4/2/11 09:57 a		1.0	ALP9
						1.20E-02	1.00E+00	*(1.7)*			g	
							Ratio U-234/238 = 1.0					
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF32D1AJ			**Report DB ID:** 9MF32D10					
C-14	***7.08E-02***	U	1.9E-01	2.1E-01	4.69E-01	pCi/g	100%	*0.15*	4/1/11 09:52 p		5.058	LSC3
						2.21E-01	5.00E+01	*0.67*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF32D1AE			**Report DB ID:** 9MF32D10					
NI-63	***-5.04E-01***	U	4.1E+00	4.7E+00	1.04E+01	pCi/g	98%	*-0.05*	4/2/11 08:41 p		0.25	LSC3
						4.83E+00	3.00E+01	*-0.21*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF32D1AG			**Report DB ID:** 9MF32D10					
H-3	***2.82E-02***		6.2E-03	6.6E-03	1.26E-02	pCi/g	100%	*(2.2)*	3/30/11 11:02 p		141.1	LSC3
						5.97E-03	4.00E+02	*(8.5)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF32D1AD			**Report DB ID:** 9MF32D10					
STRONTIUM	***7.43E-02***	U	8.9E-02	9.1E-02	1.91E-01	pCi/g	61%	*0.39*	4/1/11 04:23 p		5.99	GPC26A
						8.91E-02		*(1.6)*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF32D1AA			**Report DB ID:** 9MF32D10					
HEXCHROME	***1.59E-01***			0.0E+00	1.52E-01	mg/kg	N/A	*(1.)*	3/28/11 01:15 p		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.
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:	JP0135	Collection Date:	3/23/2011 7:50:00 AM
Lot-Sample No.:	J1C230595-1	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM2	COC No. :	RC-074-210	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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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:	JP0135	Collection Date:	3/23/2011 7:55:00 AM
Lot-Sample No.:	J1C230595-2	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM3	COC No. :	RC-074-210	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: 1083114	GAMMA_GS			**Work Order:** MF3201AH			**Report DB ID:** 9MF32010					
AG-108M	***-1.83E-03***	U	9.3E-03	9.3E-03	1.59E-02	pCi/g		*-0.11*	3/26/11 01:13 p		391.7	GER11$1
								-0.39			g	
AMERICIUM 241	***-2.58E-02***	U	8.5E-02	8.5E-02	1.41E-01	pCi/g		*-0.18*	3/26/11 01:13 p		391.7	GER11$1
								-0.61			g	
CO-60	***7.55E-04***	U	1.3E-02	1.3E-02	2.40E-02	pCi/g		*0.03*	3/26/11 01:13 p		391.7	GER11$1
							5.00E-02	*0.11*			g	
CS-137	***2.95E-02***	U	1.5E-02	1.5E-02	2.79E-02	pCi/g		*(1.1)*	3/26/11 01:13 p		391.7	GER11$1
							1.00E-01	*(3.9)*			g	
EU-152	***-1.02E-02***	U	3.2E-02	3.2E-02	5.29E-02	pCi/g		*-0.19*	3/26/11 01:13 p		391.7	GER11$1
							1.00E-01	*-0.64*			g	
EU-154	***-1.36E-02***	U	4.7E-02	4.7E-02	7.99E-02	pCi/g		*-0.17*	3/26/11 01:13 p		391.7	GER11$1
							1.00E-01	*-0.58*			g	
EU-155	***1.40E-02***	U	3.5E-02	3.5E-02	6.08E-02	pCi/g		*0.23*	3/26/11 01:13 p		391.7	GER11$1
							1.00E-01	*0.8*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF3201AF			**Report DB ID:** 9MF32010					
PU-238	***-1.92E-03***	U	7.7E-02	7.7E-02	1.44E-01	pCi/g	80%	*-0.01*	4/5/11 12:06 p		1.01	ALP39
						1.99E-02	1.00E+00	*-0.05*			g	
PU239/40	***-1.92E-03***	U	7.7E-02	7.7E-02	1.43E-01	pCi/g	80%	*-0.01*	4/5/11 12:06 p		1.01	ALP39
						1.99E-02	1.00E+00	*-0.05*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF3201AC			**Report DB ID:** 9MF32010					

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:	JP0135	Collection Date:	3/23/2011 7:55:00 AM
Lot-Sample No.:	J1C230595-2	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM3	COC No. :	RC-074-210	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	***2.05E-01***		1.5E-01	1.5E-01	1.09E-01	pCi/g	85%	*(1.9)*	4/2/11 09:57 a		1.0	ALP11
						1.91E-02	1.00E+00	*(2.7)*			g	
U-235	***-1.30E-03***	U	5.2E-02	5.2E-02	9.75E-02	pCi/g	85%	*-0.01*	4/2/11 09:57 a		1.0	ALP11
						1.35E-02	1.00E+00	*-0.05*			g	
U-238	***7.40E-02***	U	9.0E-02	9.1E-02	1.17E-01	pCi/g	85%	*0.63*	4/2/11 09:57 a		1.0	ALP11
						2.34E-02	1.00E+00	*(1.6)*			g	
							Ratio U-234/238 = 2.8					
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF3201AJ			**Report DB ID:** 9MF32010					
C-14	***-5.61E-02***	U	1.9E-01	2.1E-01	4.69E-01	pCi/g	100%	*-0.12*	4/1/11 10:15 p		5.037	LSC3
						2.22E-01	5.00E+01	*-0.54*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF3201AE			**Report DB ID:** 9MF32010					
NI-63	***6.70E-01***	U	4.3E+00	4.9E+00	1.06E+01	pCi/g	95%	*0.06*	4/2/11 09:04 p		0.25	LSC3
						4.96E+00	3.00E+01	*0.27*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF3201AG			**Report DB ID:** 9MF32010					
H-3	***1.02E-01***		1.4E-02	1.5E-02	2.56E-02	pCi/g	100%	*(4.)*	3/31/11 12:25 a		121.9	LSC3
						1.22E-02	4.00E+02	*(13.4)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF3201AD			**Report DB ID:** 9MF32010					
STRONTIUM	***4.58E-01***		1.2E-01	1.7E-01	1.86E-01	pCi/g	59%	*(2.5)*	4/1/11 04:23 p		5.99	GPC26B
						8.69E-02		*(5.4)*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF3201AA			**Report DB ID:** 9MF32010					
HEXCHROME	***2.36E-01***			0.0E+00	1.50E-01	mg/kg	N/A	*(1.6)*	3/28/11 01:15 p		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:	JP0135	Collection Date:	3/23/2011 7:55:00 AM
Lot-Sample No.:	J1C230595-2	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM3	COC No. :	RC-074-210	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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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0135	**Collection Date:**	3/23/2011 8:00:00 AM
Lot-Sample No.:	J1C230595-3	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM4	**COC No. :**	RC-074-210	**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: 1083114	GAMMA_GS			**Work Order:** MF3231AH			**Report DB ID:** 9MF32310					
AG-108M	***-2.26E-03***	U	1.7E-02	1.7E-02	2.88E-02	pCi/g		*-0.08*	3/26/11 01:13 p		356.5	GER14$1
								-0.27			g	
AMERICIUM 241	***-1.88E-02***	U	3.6E-02	3.6E-02	5.95E-02	pCi/g		*-0.32*	3/26/11 01:13 p		356.5	GER14$1
								-(1.)			g	
CO-60	***-8.65E-03***	U	2.0E-02	2.0E-02	3.32E-02	pCi/g		*-0.26*	3/26/11 01:13 p		356.5	GER14$1
							5.00E-02	*-0.89*			g	
CS-137	***1.93E-02***	U	2.2E-02	2.2E-02	4.04E-02	pCi/g		*0.48*	3/26/11 01:13 p		356.5	GER14$1
							1.00E-01	*(1.7)*			g	
EU-152	***4.95E-02***	U	5.9E-02	5.9E-02	9.43E-02	pCi/g		*0.52*	3/26/11 01:13 p		356.5	GER14$1
							1.00E-01	*(1.7)*			g	
EU-154	***2.73E-02***	U	6.2E-02	6.2E-02	1.14E-01	pCi/g		*0.24*	3/26/11 01:13 p		356.5	GER14$1
							1.00E-01	*0.88*			g	
EU-155	***4.94E-02***	U	5.0E-02	5.0E-02	8.72E-02	pCi/g		*0.57*	3/26/11 01:13 p		356.5	GER14$1
							1.00E-01	*(2.)*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF3231AF			**Report DB ID:** 9MF32310					
PU-238	***-4.26E-03***	U	5.7E-02	5.7E-02	1.28E-01	pCi/g	98%	*-0.03*	4/5/11 12:07 p		0.99	ALP41
						2.56E-02	1.00E+00	*-0.15*			g	
PU239/40	***-2.84E-03***	U	5.7E-02	5.7E-02	1.19E-01	pCi/g	98%	*-0.02*	4/5/11 12:07 p		0.99	ALP41
						2.09E-02	1.00E+00	*-0.1*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF3231AC			**Report DB ID:** 9MF32310					

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:	JP0135	Collection Date:	3/23/2011 8:00:00 AM
Lot-Sample No.:	J1C230595-3	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM4	COC No. :	RC-074-210	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	***2.86E-01***		1.9E-01	2.0E-01	1.19E-01	pCi/g	72%	*(2.4)*	4/2/11 09:58 a		1.0	ALP12
						1.66E-02	1.00E+00	*(2.9)*			g	
U-235	***3.02E-02***	U	6.4E-02	6.4E-02	1.19E-01	pCi/g	72%	*0.25*	4/2/11 09:58 a		1.0	ALP12
						1.66E-02	1.00E+00	*0.94*			g	
U-238	***4.74E-01***		2.5E-01	2.7E-01	1.33E-01	pCi/g	72%	*(3.6)*	4/2/11 09:58 a		1.0	ALP12
						2.34E-02	1.00E+00	*(3.6)*			g	
								Ratio U-234/238 = 0.6				
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF3231AJ			**Report DB ID:** 9MF32310					
C-14	***2.21E-02***	U	1.9E-01	2.1E-01	4.69E-01	pCi/g	100%	*0.05*	4/1/11 10:38 p		5.038	LSC3
						2.22E-01	5.00E+01	*0.21*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF3231AE			**Report DB ID:** 9MF32310					
Ni-63	***3.23E+00***	U	4.4E+00	5.0E+00	1.04E+01	pCi/g	97%	*0.31*	4/2/11 09:27 p		0.25	LSC3
						4.85E+00	3.00E+01	*(1.3)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF3231AG			**Report DB ID:** 9MF32310					
H-3	***3.45E-02***		8.8E-03	9.3E-03	1.80E-02	pCi/g	100%	*(1.9)*	3/31/11 01:48 a		129.8	LSC3
						8.58E-03	4.00E+02	*(7.4)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF3231AD			**Report DB ID:** 9MF32310					
STRONTIUM	***5.32E-01***		1.3E-01	1.9E-01	1.98E-01	pCi/g	52%	*(2.7)*	4/1/11 04:23 p		5.98	GPC26C
						9.16E-02		*(5.5)*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF3231AA			**Report DB ID:** 9MF32310					
HEXCHROME	***1.48E-01***	U		0.0E+00	1.48E-01	mg/kg	N/A	*1.*	3/28/11 01:15 p		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:	JP0135	Collection Date:	3/23/2011 8:00:00 AM
Lot-Sample No.:	J1C230595-3	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM4	COC No. :	RC-074-210	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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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0135	Collection Date:	3/23/2011 8:05:00 AM
Lot-Sample No.:	J1C230595-4	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM5	COC No. :	RC-074-210	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: 1083114	GAMMA_GS			Work Order: MF3241AH			Report DB ID: 9MF32410					
AG-108M	***-5.19E-03***	U	1.5E-02	1.5E-02	2.48E-02	pCi/g		*-0.21*	3/26/11 01:14 p		409.9	GER7$1
								-0.71			g	
AMERICIUM 241	***-5.73E-03***	U	6.1E-02	6.1E-02	1.03E-01	pCi/g		*-0.06*	3/26/11 01:14 p		409.9	GER7$1
								-0.19			g	
CO-60	***-4.32E-03***	U	1.8E-02	1.8E-02	3.20E-02	pCi/g		*-0.14*	3/26/11 01:14 p		409.9	GER7$1
							5.00E-02	*-0.47*			g	
CS-137	***5.76E-02***		2.6E-02	2.6E-02	3.47E-02	pCi/g		*(1.7)*	3/26/11 01:14 p		409.9	GER7$1
							1.00E-01	*(4.4)*			g	
EU-152	***5.76E-03***	U	4.6E-02	4.6E-02	7.86E-02	pCi/g		*0.07*	3/26/11 01:14 p		409.9	GER7$1
							1.00E-01	*0.25*			g	
EU-154	***1.25E-02***	U	6.4E-02	6.4E-02	1.15E-01	pCi/g		*0.11*	3/26/11 01:14 p		409.9	GER7$1
							1.00E-01	*0.39*			g	
EU-155	***2.30E-02***	U	4.7E-02	4.7E-02	8.00E-02	pCi/g		*0.29*	3/26/11 01:14 p		409.9	GER7$1
							1.00E-01	*0.97*			g	
Batch: 1083115	PUISO_PLATE_AEA			Work Order: MF3241AF			Report DB ID: 9MF32410					
PU-238	***-1.87E-03***	U	7.5E-02	7.5E-02	1.40E-01	pCi/g	89%	*-0.01*	4/5/11 12:07 p		1.0	ALP42
						1.95E-02	1.00E+00	*-0.05*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.5E-02	1.40E-01	pCi/g	89%	*0.*	4/5/11 12:07 p		1.0	ALP42
						1.95E-02	1.00E+00	*0.*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			Work Order: MF3241AC			Report DB ID: 9MF32410					

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:	JP0135	Collection Date:	3/23/2011 8:05:00 AM
Lot-Sample No.:	J1C230595-4	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM5	COC No. :	RC-074-210	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	***2.86E-01***		2.1E-01	2.2E-01	1.67E-01	pCi/g	78%	*(1.7)*	4/2/11 09:58 a		0.98	ALP84
						3.39E-02	1.00E+00	*(2.6)*			g	
U-235	***-2.19E-03***	U	7.3E-02	7.3E-02	1.40E-01	pCi/g	78%	*-0.02*	4/2/11 09:58 a		0.98	ALP84
						2.08E-02	1.00E+00	*-0.06*			g	
U-238	***2.87E-01***		2.1E-01	2.2E-01	1.57E-01	pCi/g	78%	*(1.8)*	4/2/11 09:58 a		0.98	ALP84
						2.94E-02	1.00E+00	*(2.7)*			g	
							Ratio U-234/238 = 1.0					
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF3241AJ			**Report DB ID:** 9MF32410					
C-14	***-6.15E-03***	U	1.9E-01	2.1E-01	4.69E-01	pCi/g	100%	*-0.01*	4/1/11 11:01 p		5.05	LSC3
						2.21E-01	5.00E+01	*-0.06*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF3241AE			**Report DB ID:** 9MF32410					
NI-63	***3.83E+00***	U	4.3E+00	5.0E+00	1.03E+01	pCi/g	95%	*0.37*	4/2/11 09:50 p		0.26	LSC3
						4.78E+00	3.00E+01	*(1.5)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF3241AG			**Report DB ID:** 9MF32410					
H-3	***4.74E-02***		8.9E-03	9.4E-03	1.72E-02	pCi/g	100%	*(2.8)*	3/31/11 03:11 a		131.6	LSC3
						8.16E-03	4.00E+02	*(10.1)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF3241AD			**Report DB ID:** 9MF32410					
STRONTIUM	***4.12E-02***	U	9.1E-02	9.2E-02	2.06E-01	pCi/g	49%	*0.2*	4/1/11 04:23 p		6.0	GPC26D
						9.54E-02		*0.9*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF3241AA			**Report DB ID:** 9MF32410					
HEXCHROME	***1.96E-01***			0.0E+00	1.52E-01	mg/kg	N/A	*(1.3)*	3/28/11 01:15 p		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.
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:	JP0135	Collection Date:	3/23/2011 8:05:00 AM
Lot-Sample No.:	J1C230595-4	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM5	COC No. :	RC-074-210	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:	JP0135	Collection Date:	3/23/2011 8:20:00 AM
Lot-Sample No.:	J1C230595-5	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM6	COC No. :	RC-074-210	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: 1083114	GAMMA_GS			**Work Order:** MF3271AH			**Report DB ID:** 9MF32710					
AG-108M	***-1.45E-02***	U	1.9E-02	1.9E-02	3.20E-02	pCi/g		*-0.45*	3/26/11 01:14 p		413.1	GER10$1
								-(1.5)			g	
AMERICIUM 241	***1.19E-02***	U	9.8E-02	9.8E-02	1.62E-01	pCi/g		*0.07*	3/26/11 01:14 p		413.1	GER10$1
								0.24			g	
CO-60	***3.71E-02***	U	1.7E-02	1.7E-02	3.27E-02	pCi/g		*(1.1)*	3/26/11 01:14 p		413.1	GER10$1
							5.00E-02	*(4.4)*			g	
CS-137	***2.79E+00***		3.6E-01	3.6E-01	2.81E-02	pCi/g		*(99.1)*	3/26/11 01:14 p		413.1	GER10$1
							1.00E-01	*(15.3)*			g	
EU-152	***-1.47E-02***	U	7.3E-02	7.3E-02	9.77E-02	pCi/g		*-0.15*	3/26/11 01:14 p		413.1	GER10$1
							1.00E-01	*-0.4*			g	
EU-154	***-3.74E-02***	U	4.7E-02	4.7E-02	7.56E-02	pCi/g		*-0.49*	3/26/11 01:14 p		413.1	GER10$1
							1.00E-01	*-(1.6)*			g	
EU-155	***2.65E-02***	U	7.6E-02	7.6E-02	1.28E-01	pCi/g		*0.21*	3/26/11 01:14 p		413.1	GER10$1
							1.00E-01	*0.7*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF3271AF			**Report DB ID:** 9MF32710					
PU-238	***6.75E-02***	U	9.6E-02	9.7E-02	1.27E-01	pCi/g	84%	*0.53*	4/5/11 12:07 p		1.01	ALP43
						1.76E-02	1.00E+00	*(1.4)*			g	
PU239/40	***2.31E-01***		1.8E-01	1.9E-01	1.52E-01	pCi/g	84%	*(1.5)*	4/5/11 12:07 p		1.01	ALP43
						3.04E-02	1.00E+00	*(2.5)*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF3271AC			**Report DB ID:** 9MF32710					

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:**	JP0135	**Collection Date:**	3/23/2011 8:20:00 AM
Lot-Sample No.:	J1C230595-5	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM6	**COC No. :**	RC-074-210	**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	***1.25E-01***	U	1.3E-01	1.3E-01	1.85E-01	pCi/g	86%	*0.67*	4/3/11 12:57 p		0.99	ALP3
						5.38E-02	1.00E+00	*(1.9)*			g	
U-235	***-1.29E-02***	U	5.8E-02	5.8E-02	1.67E-01	pCi/g	86%	*-0.08*	4/3/11 12:57 p		0.99	ALP3
						4.47E-02	1.00E+00	*-0.44*			g	
U-238	***2.03E-01***	U	1.6E-01	1.7E-01	2.04E-01	pCi/g	86%	*1.*	4/3/11 12:57 p		0.99	ALP3
						6.33E-02	1.00E+00	*(2.4)*			g	
								Ratio U-234/238 = 0.6				
Batch: 1083118	C14_CHEM_LSC			**Work Order:**	MF3271AJ		**Report DB ID:**	9MF32710				
C-14	***4.24E-02***	U	1.9E-01	2.1E-01	4.67E-01	pCi/g	100%	*0.09*	4/1/11 11:46 p		5.066	LSC3
						2.20E-01	5.00E+01	*0.4*			g	
Batch: 1083121	NI63_LSC			**Work Order:**	MF3271AE		**Report DB ID:**	9MF32710				
NI-63	***4.50E+00***	U	4.4E+00	5.1E+00	1.03E+01	pCi/g	94%	*0.44*	4/2/11 10:13 p		0.26	LSC3
						4.82E+00	3.00E+01	*(1.8)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:**	MF3271AG		**Report DB ID:**	9MF32710				
H-3	***1.21E+00***		2.5E-02	4.3E-02	1.41E-02	pCi/g	100%	*(86.2)*	3/31/11 04:34 a		133.3	LSC3
						6.68E-03	4.00E+02	*(56.4)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF3271AD		**Report DB ID:**	9MF32710				
STRONTIUM	***5.70E+01***		1.1E+00	1.5E+01	1.84E-01	pCi/g	56%	*(309.9)*	4/1/11 04:23 p		5.98	GPC27A
						8.52E-02		*(7.7)*			g	
Batch: 1087328	7196_CR6			**Work Order:**	MF3271AA		**Report DB ID:**	9MF32710				
HEXCHROME	***1.47E-01***	U		0.0E+00	1.47E-01	mg/kg	N/A	*(1.)*	3/28/11 01:15 p		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:	JP0135	Collection Date:	3/23/2011 8:20:00 AM
Lot-Sample No.:	J1C230595-5	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM6	COC No. :	RC-074-210	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.
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FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0135	**Collection Date:**	3/23/2011 8:25:00 AM
Lot-Sample No.:	J1C230595-6	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM7	**COC No. :**	RC-074-210	**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: 1083114	GAMMA_GS			**Work Order:** MF3281AH			**Report DB ID:** 9MF32810					
AG-108M	***-3.49E-03***	U	1.5E-02	1.5E-02	2.57E-02	pCi/g		*-0.14*	3/26/11 04:45 p		385.1	GER10$1
								-0.46			g	
AMERICIUM 241	***-7.54E-02***	U	8.3E-02	8.3E-02	1.33E-01	pCi/g		*-0.57*	3/26/11 04:45 p		385.1	GER10$1
								-(1.8)			g	
CO-60	***1.83E-02***	U	1.7E-02	1.7E-02	3.15E-02	pCi/g		*0.58*	3/26/11 04:45 p		385.1	GER10$1
							5.00E-02	*(2.2)*			g	
CS-137	***3.13E-01***		5.6E-02	5.6E-02	2.77E-02	pCi/g		*(11.3)*	3/26/11 04:45 p		385.1	GER10$1
							1.00E-01	*(11.3)*			g	
EU-152	***-3.44E-02***	U	6.6E-02	6.6E-02	8.04E-02	pCi/g		*-0.43*	3/26/11 04:45 p		385.1	GER10$1
							1.00E-01	*-(1.)*			g	
EU-154	***3.17E-02***	U	5.0E-02	5.0E-02	9.09E-02	pCi/g		*0.35*	3/26/11 04:45 p		385.1	GER10$1
							1.00E-01	*(1.3)*			g	
EU-155	***2.99E-02***	U	5.9E-02	5.9E-02	1.01E-01	pCi/g		*0.3*	3/26/11 04:45 p		385.1	GER10$1
							1.00E-01	*(1.)*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF3281AF			**Report DB ID:** 9MF32810					
PU-238	***0.00E+00***	U	0.0E+00	7.4E-02	1.38E-01	pCi/g	91%	*0.*	4/5/11 12:07 p		1.01	ALP44
						1.91E-02	1.00E+00	*0.*			g	
PU239/40	***3.68E-02***	U	7.4E-02	7.4E-02	1.38E-01	pCi/g	91%	*0.27*	4/5/11 12:07 p		1.01	ALP44
						1.91E-02	1.00E+00	*0.99*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF3281AC			**Report DB ID:** 9MF32810					

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:	JP0135	Collection Date:	3/23/2011 8:25:00 AM
Lot-Sample No.:	J1C230595-6	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM7	COC No. :	RC-074-210	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	***4.51E-02***	U	7.5E-02	7.6E-02	1.40E-01	pCi/g	89%	*0.32*	4/3/11 12:58 p		1.02	ALP4
						3.38E-02	1.00E+00	*(1.2)*			g	
U-235	***2.12E-02***	U	5.3E-02	5.4E-02	1.27E-01	pCi/g	89%	*0.17*	4/3/11 12:58 p		1.02	ALP4
						2.76E-02	1.00E+00	*0.79*			g	
U-238	***9.95E-02***	U	1.1E-01	1.1E-01	1.34E-01	pCi/g	89%	*0.74*	4/3/11 12:58 p		1.02	ALP4
						3.09E-02	1.00E+00	*(1.8)*			g	
								Ratio U-234/238 = 0.5				
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF3281AJ			**Report DB ID:** 9MF32810					
C-14	***-1.18E-01***	U	1.8E-01	2.0E-01	4.68E-01	pCi/g	100%	*-0.25*	4/2/11 12:09 a		5.057	LSC3
						2.21E-01	5.00E+01	*-(1.2)*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF3281AE			**Report DB ID:** 9MF32810					
NI-63	***4.99E+00***	U	4.5E+00	5.2E+00	1.05E+01	pCi/g	96%	*0.47*	4/2/11 10:59 p		0.25	LSC3
						4.92E+00	3.00E+01	*(1.9)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF3281AG			**Report DB ID:** 9MF32810					
H-3	***6.63E-02***		1.1E-02	1.2E-02	2.04E-02	pCi/g	100%	*(3.2)*	3/31/11 05:57 a		84.6	LSC3
						9.72E-03	4.00E+02	*(11.4)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF3281AD			**Report DB ID:** 9MF32810					
STRONTIUM	***2.57E-01***		1.1E-01	1.3E-01	1.93E-01	pCi/g	53%	*(1.3)*	4/1/11 04:23 p		5.99	GPC27D
						8.95E-02		*(4.)*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF3281AA			**Report DB ID:** 9MF32810					
HEXCHROME	***2.28E-01***			0.0E+00	1.52E-01	mg/kg	N/A	*(1.5)*	3/28/11 01:15 p		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:	JP0135	Collection Date:	3/23/2011 8:25:00 AM
Lot-Sample No.:	J1C230595-6	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM7	COC No. :	RC-074-210	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:	JP0135	Collection Date:	3/23/2011 8:30:00 AM
Lot-Sample No.:	J1C230595-7	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM8	COC No. :	RC-074-210	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: 1083114	GAMMA_GS			**Work Order:** MF3291AH			**Report DB ID:** 9MF32910					
AG-108M	***1.52E-02***	U	2.9E-02	2.9E-02	4.88E-02	pCi/g		*0.31*	3/26/11 04:45 p		416.0	GER7$1
								(1.1)			g	
AMERICIUM 241	***3.86E-01***		1.4E-01	1.4E-01	1.26E-01	pCi/g		*(3.1)*	3/26/11 04:45 p		416.0	GER7$1
								(5.6)			g	
CO-60	***4.15E-02***	U	2.1E-02	2.1E-02	4.22E-02	pCi/g		*0.98*	3/26/11 04:45 p		416.0	GER7$1
							5.00E-02	*(4.)*			g	
CS-137	***7.85E+00***		9.9E-01	9.9E-01	4.08E-02	pCi/g		*(192.5)*	3/26/11 04:45 p		416.0	GER7$1
							1.00E-01	*(15.9)*			g	
EU-152	***3.01E-03***	U	7.7E-02	7.7E-02	1.28E-01	pCi/g		*0.02*	3/26/11 04:45 p		416.0	GER7$1
							1.00E-01	*0.08*			g	
EU-154	***-3.59E-02***	U	5.9E-02	5.9E-02	9.94E-02	pCi/g		*-0.36*	3/26/11 04:45 p		416.0	GER7$1
							1.00E-01	*-(1.2)*			g	
EU-155	***2.52E-02***	U	6.4E-02	6.4E-02	1.07E-01	pCi/g		*0.24*	3/26/11 04:45 p		416.0	GER7$1
							1.00E-01	*0.78*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF3291AF			**Report DB ID:** 9MF32910					
PU-238	***1.06E-01***	U	1.2E-01	1.3E-01	1.35E-01	pCi/g	93%	*0.79*	4/5/11 12:07 p		1.0	ALP46
						1.88E-02	1.00E+00	*(1.7)*			g	
PU239/40	***1.84E+00***		5.1E-01	6.6E-01	1.51E-01	pCi/g	93%	*(12.2)*	4/5/11 12:07 p		1.0	ALP46
						2.65E-02	1.00E+00	*(5.6)*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF3291AC			**Report DB ID:** 9MF32910					

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:	JP0135	Collection Date:	3/23/2011 8:30:00 AM
Lot-Sample No.:	J1C230595-7	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM8	COC No. :	RC-074-210	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	***2.18E-01***		2.0E-01	2.1E-01	2.02E-01	pCi/g	50%	*(1.1)*	4/3/11 12:58 p		1.01	ALP9
						4.05E-02	1.00E+00	*(2.1)*			g	
U-235	***0.00E+00***	U	0.0E+00	9.0E-02	1.68E-01	pCi/g	50%	*0.*	4/3/11 12:58 p		1.01	ALP9
						2.34E-02	1.00E+00	*0.*			g	
U-238	***2.67E-01***		2.2E-01	2.3E-01	1.68E-01	pCi/g	50%	*(1.6)*	4/3/11 12:58 p		1.01	ALP9
						2.34E-02	1.00E+00	*(2.3)*			g	
								Ratio U-234/238 = 0.8				
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF3291AJ			**Report DB ID:** 9MF32910					
C-14	***9.95E-01***		2.4E-01	2.6E-01	4.72E-01	pCi/g	100%	*(2.1)*	4/2/11 12:31 a		5.013	LSC3
						2.23E-01	5.00E+01	*(7.6)*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF3291AE			**Report DB ID:** 9MF32910					
NI-63	***1.06E+00***	U	4.3E+00	5.0E+00	1.06E+01	pCi/g	95%	*0.1*	4/2/11 11:21 p		0.25	LSC3
						4.95E+00	3.00E+01	*0.43*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF3291AG			**Report DB ID:** 9MF32910					
H-3	***3.55E-02***		9.2E-03	9.7E-03	1.88E-02	pCi/g	100%	*(1.9)*	3/31/11 08:44 a		119.2	LSC3
						8.94E-03	4.00E+02	*(7.3)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF3291AD			**Report DB ID:** 9MF32910					
STRONTIUM	***1.38E+01***		5.6E-01	3.6E+00	2.20E-01	pCi/g	48%	*(62.6)*	4/1/11 04:23 p		5.99	GPC27B
						1.03E-01		*(7.6)*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF3291AA			**Report DB ID:** 9MF32910					
HEXCHROME	***1.60E-01***			0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	3/28/11 01:15 p		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.
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:	JP0135	Collection Date:	3/23/2011 8:30:00 AM
Lot-Sample No.:	J1C230595-7	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM8	COC No. :	RC-074-210	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.

FORM I

SAMPLE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0135	**Collection Date:**	3/23/2011 8:35:00 AM
Lot-Sample No.:	J1C230595-8	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM9	**COC No. :**	RC-074-210	**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: 1083114	GAMMA_GS			**Work Order:** MF33A1AH			**Report DB ID:** 9MF33A10					
AG-108M	***-2.37E-03***	U	1.3E-02	1.3E-02	2.15E-02	pCi/g		*-0.11*	3/26/11 04:46 p		416.9	GER11$1
								-0.37			g	
AMERICIUM 241	***1.96E-02***	U	8.5E-02	8.5E-02	1.44E-01	pCi/g		*0.14*	3/26/11 04:46 p		416.9	GER11$1
								0.46			g	
CO-60	***1.53E-02***	U	1.4E-02	1.4E-02	2.69E-02	pCi/g		*0.57*	3/26/11 04:46 p		416.9	GER11$1
							5.00E-02	*(2.2)*			g	
CS-137	***2.52E+00***		3.2E-01	3.2E-01	2.19E-02	pCi/g		*(115.3)*	3/26/11 04:46 p		416.9	GER11$1
							1.00E-01	*(15.7)*			g	
EU-152	***-4.44E-03***	U	3.9E-02	3.9E-02	6.49E-02	pCi/g		*-0.07*	3/26/11 04:46 p		416.9	GER11$1
							1.00E-01	*-0.23*			g	
EU-154	***8.11E-03***	U	4.0E-02	4.0E-02	7.03E-02	pCi/g		*0.12*	3/26/11 04:46 p		416.9	GER11$1
							1.00E-01	*0.41*			g	
EU-155	***1.17E-02***	U	3.8E-02	3.8E-02	6.54E-02	pCi/g		*0.18*	3/26/11 04:46 p		416.9	GER11$1
							1.00E-01	*0.62*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF33A1AF			**Report DB ID:** 9MF33A10					
PU-238	***3.36E-02***	U	6.7E-02	6.8E-02	1.26E-01	pCi/g	86%	*0.27*	4/5/11 12:08 p		1.01	ALP121
						1.75E-02	1.00E+00	*0.99*			g	
PU239/40	***4.03E-01***		2.3E-01	2.5E-01	1.26E-01	pCi/g	86%	*(3.2)*	4/5/11 12:08 p		1.01	ALP121
						1.75E-02	1.00E+00	*(3.2)*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF33A1AC			**Report DB ID:** 9MF33A10					

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:	JP0135	Collection Date:	3/23/2011 8:35:00 AM
Lot-Sample No.:	J1C230595-8	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM9	COC No. :	RC-074-210	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	***3.26E-01***		2.2E-01	2.3E-01	1.37E-01	pCi/g	61%	*(2.4)*	4/3/11 12:58 p		0.99	ALP11
						1.90E-02	1.00E+00	*(2.8)*			g	
U-235	***-1.83E-03***	U	7.3E-02	7.3E-02	1.37E-01	pCi/g	61%	*-0.01*	4/3/11 12:58 p		0.99	ALP11
						1.90E-02	1.00E+00	*-0.05*			g	
U-238	***2.50E-01***		1.9E-01	2.0E-01	1.64E-01	pCi/g	61%	*(1.5)*	4/3/11 12:58 p		0.99	ALP11
						3.29E-02	1.00E+00	*(2.5)*			g	
							Ratio U-234/238 = 1.3					
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF33A1AJ			**Report DB ID:** 9MF33A10					
C-14	***-7.04E-02***	U	1.9E-01	2.1E-01	4.73E-01	pCi/g	100%	*-0.15*	4/2/11 12:54 a		5.018	LSC3
						2.23E-01	5.00E+01	*-0.68*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF33A1AE			**Report DB ID:** 9MF33A10					
NI-63	***4.84E+00***	U	4.3E+00	4.9E+00	9.98E+00	pCi/g	98%	*0.49*	4/2/11 11:44 p		0.26	LSC3
						4.65E+00	3.00E+01	*(2.)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF33A1AG			**Report DB ID:** 9MF33A10					
H-3	***8.20E-01***		2.1E-02	3.2E-02	1.38E-02	pCi/g	100%	*(59.4)*	3/31/11 10:07 a		132.7	LSC3
						6.57E-03	4.00E+02	*(52.)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF33A1AD			**Report DB ID:** 9MF33A10					
STRONTIUM	***4.43E+00***		3.2E-01	1.2E+00	2.07E-01	pCi/g	50%	*(21.4)*	4/1/11 04:23 p		6.0	GPC28C
						9.60E-02		*(7.4)*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF33A1AA			**Report DB ID:** 9MF33A10					
HEXCHROME	***1.51E-01***			0.0E+00	1.51E-01	mg/kg	N/A	*(1.)*	3/28/11 01:15 p		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:	JP0135	Collection Date:	3/23/2011 8:35:00 AM
Lot-Sample No.:	J1C230595-8	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM9	COC No. :	RC-074-210	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:**	JP0135	**Collection Date:**	3/23/2011 8:50:00 AM
Lot-Sample No.:	J1C230595-9	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN0	**COC No. :**	RC-074-210	**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: 1083114	GAMMA_GS			**Work Order:** MF33C1AH			**Report DB ID:** 9MF33C10					
AG-108M	***-1.59E-02***	U	1.5E-02	1.5E-02	2.36E-02	pCi/g		*-0.67*	3/26/11 04:47 p		385.6	GER15$1
								-(2.1)			g	
AMERICIUM 241	***3.01E-02***	U	3.4E-02	3.4E-02	5.83E-02	pCi/g		*0.52*	3/26/11 04:47 p		385.6	GER15$1
								(1.7)			g	
CO-60	***-3.50E-03***	U	1.8E-02	1.8E-02	3.15E-02	pCi/g		*-0.11*	3/26/11 04:47 p		385.6	GER15$1
							5.00E-02	*-0.39*			g	
CS-137	***5.94E-04***	U	2.0E-02	2.0E-02	3.52E-02	pCi/g		*0.02*	3/26/11 04:47 p		385.6	GER15$1
							1.00E-01	*0.06*			g	
EU-152	***1.21E-02***	U	5.0E-02	5.0E-02	8.71E-02	pCi/g		*0.14*	3/26/11 04:47 p		385.6	GER15$1
							1.00E-01	*0.48*			g	
*EU-154	***-6.83E-02***	U	5.9E-02	5.9E-02	9.30E-02	pCi/g		*-0.73*	3/26/11 04:47 p		385.6	GER15$1
							1.00E-01	*-(2.3)*			g	
EU-155	***3.38E-02***	U	4.8E-02	4.8E-02	8.29E-02	pCi/g		*0.41*	3/26/11 04:47 p		385.6	GER15$1
							1.00E-01	*(1.4)*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF33C1AF			**Report DB ID:** 9MF33C10					
PU-238	***0.00E+00***	U	0.0E+00	7.0E-02	1.30E-01	pCi/g	100%	*0.*	4/5/11 12:08 p		1.01	ALP123
						1.80E-02	1.00E+00	*0.*			g	
PU239/40	***-1.73E-03***	U	7.0E-02	7.0E-02	1.30E-01	pCi/g	100%	*-0.01*	4/5/11 12:08 p		1.01	ALP123
						1.80E-02	1.00E+00	*-0.05*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF33C1AC			**Report DB ID:** 9MF33C10					

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:	JP0135	Collection Date:	3/23/2011 8:50:00 AM
Lot-Sample No.:	J1C230595-9	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN0	COC No. :	RC-074-210	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	***2.11E-01***		1.5E-01	1.6E-01	9.91E-02	pCi/g	86%	*(2.1)*	4/3/11 12:58 p		1.01	ALP12
						1.38E-02	1.00E+00	*(2.7)*			g	
U-235	***-1.32E-03***	U	5.3E-02	5.3E-02	9.91E-02	pCi/g	86%	*-0.01*	4/3/11 12:58 p		1.01	ALP12
						1.38E-02	1.00E+00	*-0.05*			g	
U-238	***1.30E-01***		1.2E-01	1.2E-01	1.11E-01	pCi/g	86%	*(1.2)*	4/3/11 12:58 p		1.01	ALP12
						1.95E-02	1.00E+00	*(2.1)*			g	
								Ratio U-234/238 = 1.6				
Batch: 1083118	C14_CHEM_LSC			**Work Order:**	MF33C1AJ		**Report DB ID:**	9MF33C10				
C-14	***2.67E-01***	U	2.0E-01	2.2E-01	4.70E-01	pCi/g	100%	*0.57*	4/2/11 01:17 a		5.045	LSC3
						2.22E-01	5.00E+01	*(2.4)*			g	
Batch: 1083121	NI63_LSC			**Work Order:**	MF33C1AE		**Report DB ID:**	9MF33C10				
NI-63	***1.20E+00***	U	4.3E+00	4.9E+00	1.06E+01	pCi/g	92%	*0.11*	4/3/11 12:07 a		0.26	LSC3
						4.92E+00	3.00E+01	*0.49*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:**	MF33C1AG		**Report DB ID:**	9MF33C10				
H-3	***2.90E-02***		1.0E-02	1.1E-02	2.28E-02	pCi/g	100%	*(1.3)*	3/31/11 11:30 a		114.8	LSC3
						1.08E-02	4.00E+02	*(5.2)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF33C1AD		**Report DB ID:**	9MF33C10				
STRONTIUM	***3.17E+00***		2.6E-01	8.7E-01	1.92E-01	pCi/g	58%	*(16.5)*	4/1/11 04:23 p		6.02	GPC31A
						8.94E-02		*(7.3)*			g	
Batch: 1087328	7196_CR6			**Work Order:**	MF33C1AA		**Report DB ID:**	9MF33C10				
HEXCHROME	***2.95E-01***			0.0E+00	1.50E-01	mg/kg	N/A	*(2.)*	3/28/11 01:15 p		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:	JP0135	Collection Date:	3/23/2011 8:50:00 AM
Lot-Sample No.:	J1C230595-9	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN0	COC No. :	RC-074-210	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
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:	JP0135	Collection Date:	3/23/2011 8:55:00 AM
Lot-Sample No.:	J1C230595-10	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN1	COC No. :	RC-074-210	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: 1083114	GAMMA_GS			Work Order: MF33D1AH			Report DB ID: 9MF33D10					
AG-108M	***2.26E-03***	U	8.1E-03	8.1E-03	1.43E-02	pCi/g		*0.16*	3/28/11 02:37 a		428.7	GER11$1
								0.56			g	
AMERICIUM 241	***7.27E-02***	U	7.2E-02	7.2E-02	1.26E-01	pCi/g		*0.58*	3/28/11 02:37 a		428.7	GER11$1
								(2.)			g	
CO-60	***-4.68E-03***	U	1.1E-02	1.1E-02	1.84E-02	pCi/g		*-0.25*	3/28/11 02:37 a		428.7	GER11$1
							5.00E-02	*-0.86*			g	
CS-137	***1.76E-01***		4.0E-02	4.0E-02	1.78E-02	pCi/g		*(9.9)*	3/28/11 02:37 a		428.7	GER11$1
							1.00E-01	*(8.8)*			g	
EU-152	***3.16E-04***	U	3.0E-02	3.0E-02	5.05E-02	pCi/g		*0.01*	3/28/11 02:37 a		428.7	GER11$1
							1.00E-01	*0.02*			g	
EU-154	***-1.65E-03***	U	3.5E-02	3.5E-02	6.25E-02	pCi/g		*-0.03*	3/28/11 02:37 a		428.7	GER11$1
							1.00E-01	*-0.09*			g	
EU-155	***5.31E-02***	U	3.1E-02	3.1E-02	5.61E-02	pCi/g		*0.95*	3/28/11 02:37 a		428.7	GER11$1
							1.00E-01	*(3.4)*			g	
Batch: 1083115	PUISO_PLATE_AEA			Work Order: MF33D1AF			Report DB ID: 9MF33D10					
PU-238	***0.00E+00***	U	0.0E+00	7.4E-02	1.38E-01	pCi/g	91%	*0.*	4/5/11 12:08 p		1.01	ALP124
						1.90E-02	1.00E+00	*0.*			g	
PU239/40	***3.49E-02***	U	7.4E-02	7.4E-02	1.38E-01	pCi/g	91%	*0.25*	4/5/11 12:08 p		1.01	ALP124
						1.90E-02	1.00E+00	*0.94*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			Work Order: MF33D1AC			Report DB ID: 9MF33D10					

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:	JP0135	Collection Date:	3/23/2011 8:55:00 AM
Lot-Sample No.:	J1C230595-10	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN1	COC No. :	RC-074-210	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	***9.62E-02***	U	1.1E-01	1.2E-01	1.39E-01	pCi/g	73%	*0.69*	4/3/11 12:59 p		1.0	ALP71
						2.44E-02	1.00E+00	*(1.6)*			g	
U-235	***-1.33E-03***	U	6.6E-02	6.6E-02	1.21E-01	pCi/g	73%	*-0.01*	4/3/11 12:59 p		1.0	ALP71
						1.54E-02	1.00E+00	*-0.04*			g	
U-238	***3.25E-02***	U	6.6E-02	6.7E-02	1.12E-01	pCi/g	73%	*0.29*	4/3/11 12:59 p		1.0	ALP71
						1.09E-02	1.00E+00	*0.97*			g	
								Ratio U-234/238 = 3.0				
Batch: 1083118	C14_CHEM_LSC			**Work Order:** MF33D1AJ			**Report DB ID:** 9MF33D10					
C-14	***3.79E-01***	U	2.1E-01	2.3E-01	4.70E-01	pCi/g	100%	*0.81*	4/2/11 01:40 a		5.04	LSC3
						2.22E-01	5.00E+01	*(3.3)*			g	
Batch: 1083121	NI63_LSC			**Work Order:** MF33D1AE			**Report DB ID:** 9MF33D10					
NI-63	***4.85E+00***	U	4.4E+00	5.1E+00	1.03E+01	pCi/g	95%	*0.47*	4/3/11 12:30 a		0.26	LSC3
						4.78E+00	3.00E+01	*(1.9)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:** MF33D1AG			**Report DB ID:** 9MF33D10					
H-3	***2.95E+00***		4.0E-02	9.3E-02	1.48E-02	pCi/g	100%	*(199.7)*	3/31/11 12:53 p		137.6	LSC3
						7.03E-03	4.00E+02	*(63.5)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF33D1AD			**Report DB ID:** 9MF33D10					
STRONTIUM	***5.61E-01***		1.3E-01	2.0E-01	1.85E-01	pCi/g	53%	*(3.)*	4/1/11 04:23 p		6.01	GPC31B
						8.56E-02		*(5.7)*			g	
Batch: 1087328	7196_CR6			**Work Order:** MF33D1AA			**Report DB ID:** 9MF33D10					
HEXCHROME	***1.48E-01***	U		0.0E+00	1.48E-01	mg/kg	N/A	*1.*	3/28/11 01:15 p		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.
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:	JP0135	Collection Date:	3/23/2011 8:55:00 AM
Lot-Sample No.:	J1C230595-10	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN1	COC No. :	RC-074-210	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:**	JP0135	**Collection Date:**	3/23/2011 9:00:00 AM
Lot-Sample No.:	J1C230595-11	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN2	**COC No. :**	RC-074-210	**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: 1083114	GAMMA_GS			**Work Order:** MF33E1AH			**Report DB ID:** 9MF33E10					
AG-108M	***5.89E-03***	U	1.6E-02	1.6E-02	2.77E-02	pCi/g		*0.21*	3/28/11 02:37 a		415.3	GER14$1
								0.74			g	
AMERICIUM 241	***-2.38E-02***	U	3.3E-02	3.3E-02	5.34E-02	pCi/g		*-0.45*	3/28/11 02:37 a		415.3	GER14$1
								-(1.5)			g	
CO-60	***-2.00E-02***	U	2.0E-02	2.0E-02	3.11E-02	pCi/g		*-0.64*	3/28/11 02:37 a		415.3	GER14$1
							5.00E-02	*-(2.)*			g	
CS-137	***2.83E-02***	U	2.2E-02	2.2E-02	3.97E-02	pCi/g		*0.71*	3/28/11 02:37 a		415.3	GER14$1
							1.00E-01	*(2.6)*			g	
EU-152	***3.19E-02***	U	5.8E-02	5.8E-02	8.97E-02	pCi/g		*0.36*	3/28/11 02:37 a		415.3	GER14$1
							1.00E-01	*(1.1)*			g	
EU-154	***2.85E-02***	U	6.1E-02	6.1E-02	1.11E-01	pCi/g		*0.26*	3/28/11 02:37 a		415.3	GER14$1
							1.00E-01	*0.93*			g	
EU-155	***2.49E-02***	U	4.8E-02	4.8E-02	8.20E-02	pCi/g		*0.3*	3/28/11 02:37 a		415.3	GER14$1
							1.00E-01	*(1.)*			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:** MF33E1AF			**Report DB ID:** 9MF33E10					
PU-238	***3.05E-02***	U	6.4E-02	6.5E-02	1.20E-01	pCi/g	91%	*0.25*	4/5/11 12:08 p		1.0	ALP125
						1.66E-02	1.00E+00	*0.94*			g	
PU239/40	***-1.58E-03***	U	6.4E-02	6.4E-02	1.20E-01	pCi/g	91%	*-0.01*	4/5/11 12:08 p		1.0	ALP125
						1.66E-02	1.00E+00	*-0.05*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:** MF33E1AC			**Report DB ID:** 9MF33E10					

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:	JP0135	Collection Date:	3/23/2011 9:00:00 AM
Lot-Sample No.:	J1C230595-11	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN2	COC No. :	RC-074-210	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	***7.28E-02***	U	1.1E-01	1.1E-01	1.81E-01	pCi/g	71%	*0.4*	4/3/11 12:59 p		0.99	ALP84
						3.68E-02	1.00E+00	*(1.3)*			g	
U-235	***-2.38E-03***	U	7.9E-02	7.9E-02	1.52E-01	pCi/g	71%	*-0.02*	4/3/11 12:59 p		0.99	ALP84
						2.26E-02	1.00E+00	*-0.06*			g	
U-238	***2.72E-01***		2.1E-01	2.2E-01	1.71E-01	pCi/g	71%	*(1.6)*	4/3/11 12:59 p		0.99	ALP84
						3.19E-02	1.00E+00	*(2.5)*			g	
								Ratio U-234/238 = 0.3				
Batch: 1083118	C14_CHEM_LSC			**Work Order:**	MF33E1AJ		**Report DB ID:**	9MF33E10				
C-14	***-1.37E-02***	U	1.9E-01	2.1E-01	4.69E-01	pCi/g	100%	*-0.03*	4/2/11 02:26 a		5.048	LSC3
						2.21E-01	5.00E+01	*-0.13*			g	
Batch: 1083121	NI63_LSC			**Work Order:**	MF33E1AE		**Report DB ID:**	9MF33E10				
NI-63	***5.54E+00***	U	4.9E+00	5.7E+00	1.14E+01	pCi/g	85%	*0.48*	4/3/11 01:16 a		0.26	LSC3
						5.33E+00	3.00E+01	*(1.9)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:**	MF33E1AG		**Report DB ID:**	9MF33E10				
H-3	***2.58E-02***		6.1E-03	6.5E-03	1.24E-02	pCi/g	100%	*(2.1)*	3/31/11 03:40 p		140.4	LSC3
						5.92E-03	4.00E+02	*(8.)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF33E1AD		**Report DB ID:**	9MF33E10				
STRONTIUM	***3.15E-01***		1.2E-01	1.4E-01	1.95E-01	pCi/g	54%	*(1.6)*	4/1/11 04:23 p		5.99	GPC31D
						9.05E-02		*(4.5)*			g	
Batch: 1087328	7196_CR6			**Work Order:**	MF33E1AA		**Report DB ID:**	9MF33E10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/28/11 01:15 p		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.
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:	JP0135	Collection Date:	3/23/2011 9:00:00 AM
Lot-Sample No.:	J1C230595-11	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN2	COC No. :	RC-074-210	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:	JP0135	Collection Date:	3/23/2011 9:05:00 AM
Lot-Sample No.:	J1C230595-12	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN3	COC No. :	RC-074-210	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: 1083114	GAMMA_GS			Work Order: MF33F1AH			Report DB ID: 9MF33F10					
AG-108M	***-5.47E-03***	U	1.3E-02	1.3E-02	2.29E-02	pCi/g		*-0.24*	3/28/11 02:37 a		396.3	GER7$1
								-0.81			g	
AMERICIUM 241	***5.98E-04***	U	6.0E-02	6.0E-02	9.97E-02	pCi/g		*0.01*	3/28/11 02:37 a		396.3	GER7$1
								0.02			g	
CO-60	***8.32E-03***	U	1.6E-02	1.6E-02	3.15E-02	pCi/g		*0.26*	3/28/11 02:37 a		396.3	GER7$1
							5.00E-02	*(1.)*			g	
CS-137	***4.60E-02***		3.4E-02	3.4E-02	2.98E-02	pCi/g		*(1.5)*	3/28/11 02:37 a		396.3	GER7$1
							1.00E-01	*(2.7)*			g	
EU-152	***-4.23E-03***	U	4.5E-02	4.5E-02	7.54E-02	pCi/g		*-0.06*	3/28/11 02:37 a		396.3	GER7$1
							1.00E-01	*-0.19*			g	
EU-154	***8.58E-03***	U	5.4E-02	5.4E-02	9.84E-02	pCi/g		*0.09*	3/28/11 02:37 a		396.3	GER7$1
							1.00E-01	*0.32*			g	
EU-155	***6.73E-03***	U	4.5E-02	4.5E-02	7.74E-02	pCi/g		*0.09*	3/28/11 02:37 a		396.3	GER7$1
							1.00E-01	*0.3*			g	
Batch: 1083115	PUISO_PLATE_AEA			Work Order: MF33F1AF			Report DB ID: 9MF33F10					
PU-238	***0.00E+00***	U	0.0E+00	8.7E-02	1.63E-01	pCi/g	89%	*0.*	4/5/11 12:09 p		1.0	ALP127
						2.24E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	8.7E-02	1.63E-01	pCi/g	89%	*0.*	4/5/11 12:09 p		1.0	ALP127
						2.24E-02	1.00E+00	*0.*			g	
Batch: 1083117	UISO_IE_PLATE_AEA			Work Order: MF33F1AC			Report DB ID: 9MF33F10					

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:	JP0135	Collection Date:	3/23/2011 9:05:00 AM
Lot-Sample No.:	J1C230595-12	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN3	COC No. :	RC-074-210	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	***2.52E-01***		1.6E-01	1.7E-01	1.49E-01	pCi/g	100%	*(1.7)*	4/3/11 02:44 p		1.01	ALP3
						4.17E-02	1.00E+00	*(3.)*			g	
U-235	***1.45E-02***	U	4.9E-02	4.9E-02	1.36E-01	pCi/g	100%	*0.11*	4/3/11 02:44 p		1.01	ALP3
						3.55E-02	1.00E+00	*0.59*			g	
U-238	***7.60E-02***	U	9.7E-02	9.8E-02	1.69E-01	pCi/g	100%	*0.45*	4/3/11 02:44 p		1.01	ALP3
						5.18E-02	1.00E+00	*(1.5)*			g	
								Ratio U-234/238 = 3.3				
Batch: 1083118	C14_CHEM_LSC			**Work Order:**	MF33F1AJ		**Report DB ID:**	9MF33F10				
C-14	***3.47E-03***	U	1.9E-01	2.1E-01	4.72E-01	pCi/g	100%	*0.01*	4/2/11 02:48 a		5.015	LSC3
						2.23E-01	5.00E+01	*0.03*			g	
Batch: 1083121	NI63_LSC			**Work Order:**	MF33F1AE		**Report DB ID:**	9MF33F10				
NI-63	***3.61E+00***	U	4.7E+00	5.3E+00	1.11E+01	pCi/g	88%	*0.33*	4/3/11 01:39 a		0.26	LSC3
						5.16E+00	3.00E+01	*(1.3)*			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:**	MF33F1AG		**Report DB ID:**	9MF33F10				
H-3	***2.10E-02***		6.0E-03	6.3E-03	1.25E-02	pCi/g	100%	*(1.7)*	3/31/11 05:03 p		138.9	LSC3
						5.95E-03	4.00E+02	*(6.6)*			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF33F1AD		**Report DB ID:**	9MF33F10				
STRONTIUM	***1.26E-01***	U	8.4E-02	9.1E-02	1.67E-01	pCi/g	65%	*0.75*	4/1/11 04:23 p		6.01	GPC32A
						7.77E-02		*(2.8)*			g	
Batch: 1087328	7196_CR6			**Work Order:**	MF33F1AA		**Report DB ID:**	9MF33F10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/28/11 01:15 p		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.
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:	JP0135	Collection Date:	3/23/2011 9:05:00 AM
Lot-Sample No.:	J1C230595-12	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN3	COC No. :	RC-074-210	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:	JP0135	Collection Date:	3/23/2011 9:05:00 AM
Lot-Sample No.:	J1C230595-12	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJN3	COC No. :	RC-074-210	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

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 II

DUPLICATE RESULTS

Date: 06-Apr-11

Lab Name:	TestAmerica	SDG:	JP0135	Collection Date:	3/23/2011 7:50:00 AM
Lot-Sample No.:	J1C230595-1	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM2	COC No. :	RC-074-210	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: 1087328	7196_CR6			Work Order: MF32D1AN		Report DB ID: MF32D1ER			Orig Sa DB ID: 9MF32D10			
HEXCHROME	1.53E-01	U		0.0E+00	1.53E-01	mg/kg	N/A	(1.)	3/28/11 01:15 p		2.5	
	1.59E-01		RPD 3.8			3.50E-01		N/A			g	

No. of Results: 1 Comments:

TestAmerica Laboratories, Inc.

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:	JP0135	Collection Date:	3/23/2011 7:50:00 AM
Lot-Sample No.:	J1C230595-1	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM2 DUP	COC No. :	RC-074-210	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: 1083114	GAMMA_GS			Work Order: MF32D1AK		Report DB ID: MF32D1KR			Orig Sa DB ID: 9MF32D10			
AG-108M	-1.08E-03	U	1.7E-02	1.7E-02	2.87E-02	pCi/g		-0.04	3/26/11 04:44 p		390.9	GER14$1
	1.80E-04	U	RPD	-280.1				-0.13			g	
AMERICIUM 241	-2.58E-02	U	3.6E-02	3.6E-02	5.77E-02	pCi/g		-0.45	3/26/11 04:44 p		390.9	GER14$1
	-1.91E-02	U	RPD	-30.1				-(1.5)			g	
CO-60	1.76E-02	U	2.1E-02	2.1E-02	3.89E-02	pCi/g		0.45	3/26/11 04:44 p		390.9	GER14$1
	-1.10E-02	U	RPD	863.3		5.00E-02		(1.7)			g	
CS-137	2.50E-02	U	2.3E-02	2.3E-02	4.12E-02	pCi/g		0.61	3/26/11 04:44 p		390.9	GER14$1
	3.53E-02	U	RPD	34.1		1.00E-01		(2.2)			g	
EU-152	-7.74E-02	U	6.2E-02	6.2E-02	8.57E-02	pCi/g		-0.9	3/26/11 04:44 p		390.9	GER14$1
	-6.77E-04	U	RPD	-196.5		1.00E-01		-(2.5)			g	
EU-154	-3.27E-03	U	6.3E-02	6.3E-02	1.11E-01	pCi/g		-0.03	3/26/11 04:44 p		390.9	GER14$1
	8.85E-03	U	RPD	434.5		1.00E-01		-0.1			g	
EU-155	4.71E-03	U	5.1E-02	5.1E-02	8.69E-02	pCi/g		0.05	3/26/11 04:44 p		390.9	GER14$1
	4.22E-02	U	RPD	159.9		1.00E-01		0.18			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.

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0135	Collection Date:	3/23/2011 7:55:00 AM
Lot-Sample No.:	J1C230595-2	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM3 DUP	COC No. :	RC-074-210	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: 1083115	PUISO_PLATE_AEA			Work Order: MF3201AK		Report DB ID: MF3201KR			Orig Sa DB ID: 9MF32010			
PU-238	-2.12E-03	U	8.5E-02	8.5E-02	1.59E-01	pCi/g	74%	-0.01	4/5/11 12:06 p		1.02	ALP40
	-1.92E-03	U	RPD	-10.0		1.00E+00		-0.05			g	
PU239/40	-2.12E-03	U	8.5E-02	8.5E-02	1.58E-01	pCi/g	74%	-0.01	4/5/11 12:06 p		1.02	ALP40
	-1.92E-03	U	RPD	-10.0		1.00E+00		-0.05			g	

No. of Results: 2 Comments:

TestAmerica Laboratories, Inc.

TestAmerica RPD - Relative Percent Difference.
rptSTLRchDupV5.2 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
.12 A2002 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:	JP0135	Collection Date:	3/23/2011 8:00:00 AM
Lot-Sample No.:	J1C230595-3	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM4 DUP	COC No. :	RC-074-210	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: 1083117	UISO_IE_PLATE_AEA			Work Order: MF3231AK		Report DB ID: MF3231KR			Orig Sa DB ID: 9MF32310			
U-234	3.56E-01		2.1E-01	2.2E-01	1.25E-01	pCi/g	81%	(2.8)	4/2/11 09:58 a		1.0	ALP71
	2.86E-01		RPD	21.7		1.00E+00		(3.2)			g	
U-235	2.87E-02	U	6.0E-02	6.0E-02	1.09E-01	pCi/g	81%	0.26	4/2/11 09:58 a		1.0	ALP71
	3.02E-02	U	RPD	5.1		1.00E+00		0.95			g	
U-238	8.90E-02	U	1.0E-01	1.1E-01	1.01E-01	pCi/g	81%	0.88	4/2/11 09:58 a		1.0	ALP71
	4.74E-01		RPD	136.7		1.00E+00		(1.7)			g	

Ratio U-234/238 = 4.0 *Alpha Spec Result Sum = 4.7E-01*

60

No. of Results: 3 Comments:

TestAmerica RPD - Relative Percent Difference.

rptSTLRchDupV5.2 .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 II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0135	Collection Date:	3/23/2011 8:05:00 AM
Lot-Sample No.:	J1C230595-4	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM5 DUP	COC No. :	RC-074-210	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: 1083118	C14_CHEM_LSC			Work Order: MF3241AK		Report DB ID: MF3241KR			Orig Sa DB ID: 9MF32410			
C-14	2.76E-02	U	1.9E-01	2.1E-01	4.72E-01	pCi/g	100%	0.06	4/1/11 11:23 p		5.013	LSC3
	-6.15E-03	U	RPD 314.3			5.00E+01		0.26			g	

No. of Results: 1 Comments:

TestAmerica Laboratories, Inc.

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.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:	JP0135	Collection Date:	3/23/2011 8:20:00 AM
Lot-Sample No.:	J1C230595-5	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM6 DUP	COC No. :	RC-074-210	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: 1083121	NI63_LSC			Work Order: MF3271AK		Report DB ID: MF3271KR			Orig Sa DB ID: 9MF32710			
NI-63	2.73E+00	U	4.4E+00	5.0E+00	1.05E+01	pCi/g	97%	0.26	4/2/11 10:36 p		0.25	LSC3
	4.50E+00	U	RPD	49.0		3.00E+01		(1.1)			g	

No. of Results: 1 Comments:

TestAmerica
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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:	JP0135	Collection Date:	3/23/2011 8:25:00 AM
Lot-Sample No.:	J1C230595-6	Report No. :	46147	Received Date:	3/23/2011 3:15:00 PM
Client Sample ID:	J1FJM7 DUP	COC No. :	RC-074-210	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: 1083123	906.0_H3_LSC			Work Order: MF3281AK		Report DB ID: MF3281KR			Orig Sa DB ID: 9MF32810			
H-3	7.63E-02		1.5E-02	1.6E-02	2.87E-02	pCi/g	100%	(2.7)	3/31/11 07:20 a		60.7	LSC3
	6.63E-02		RPD 14.1			4.00E+02		(9.8)			g	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.

rptSTLRchDupV5.2 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
.12 A2002

FORM II

Date: 06-Apr-11

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	JP0135	**Collection Date:**	3/23/2011 8:30:00 AM
Lot-Sample No.:	**J1C230595-7**	**Report No. :**	46147	**Received Date:**	3/23/2011 3:15:00 PM
Client Sample ID:	**J1FJM8 DUP**	**COC No. :**	RC-074-210	**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: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:** MF3291AK			**Report DB ID:** MF3291KR		**Orig Sa DB ID:** 9MF32910			
STRONTIUM	1.50E+01		6.1E-01	4.0E+00	2.39E-01	pCi/g	45%	(62.7)	4/1/11 04:23 p		5.99	GPC27C
	1.38E+01		**RPD** 8.4					(7.6)			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.

FORM II
BLANK RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica
Matrix: SOIL

SDG: JP0135
Report No. : 46147

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: 1087328	7196_CR6			**Work Order:**	MF9J41AA		**Report DB ID:**	MF9J41AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/28/11 01:15 p		2.5	
						1.55E-01		N/A			g	
Batch: 1083118	C14_CHEM_LSC			**Work Order:**	MF4G91AA		**Report DB ID:**	MF4G91AB				
C-14	-6.26E-04	U	4.8E-03	5.3E-03	1.18E-02	pCi/g	100%	-0.05	4/2/11 03:11 a		200.0	LSC3
					5.59E-03	5.00E+01		-0.24			g	
Batch: 1083115	PUISO_PLATE_AEA			**Work Order:**	MF4G51AA		**Report DB ID:**	MF4G51AB				
PU-238	0.00E+00	U	0.0E+00	8.1E-02	1.51E-01	pCi/g	93%	0.	4/5/11 12:09 p		0.99	ALP128
					2.08E-02	1.00E+00		0.			g	
PU239/40	0.00E+00	U	0.0E+00	8.1E-02	1.51E-01	pCi/g	93%	0.	4/5/11 12:09 p		0.99	ALP128
					2.08E-02	1.00E+00		0.			g	
Batch: 1083117	UISO_IE_PLATE_AEA			**Work Order:**	MF4G71AA		**Report DB ID:**	MF4G71AB				
U-234	2.10E-02	U	6.0E-02	6.1E-02	1.57E-01	pCi/g	80%	0.13	4/3/11 02:45 p		1.0	ALP4
					3.82E-02	1.00E+00		0.69			g	
U-235	-6.00E-03	U	6.0E-02	6.0E-02	1.43E-01	pCi/g	80%	-0.04	4/3/11 02:45 p		1.0	ALP4
					3.12E-02	1.00E+00		-0.2			g	
U-238	-6.00E-03	U	6.0E-02	6.0E-02	1.43E-01	pCi/g	80%	-0.04	4/3/11 02:45 p		1.0	ALP4
					3.12E-02	1.00E+00		-0.2			g	
							Ratio U-234/238 = -3.5					
Batch: 1083121	NI63_LSC			**Work Order:**	MF4HC1AA		**Report DB ID:**	MF4HC1AB				
NI-63	1.36E-01	U	4.3E+00	5.0E+00	1.08E+01	pCi/g	90%	0.01	4/3/11 02:02 a		0.26	LSC3
					5.03E+00	3.00E+01		0.05			g	
Batch: 1083123	906.0_H3_LSC			**Work Order:**	MF4HG1AA		**Report DB ID:**	MF4HG1AB				

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.
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

BLANK RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0135

Report No. : 46147

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	4.60E-02	U	2.2E-02	2.4E-02	4.96E-02	pCi/g	100%	0.93	3/31/11 06:26 p		70.3	LSC3
					2.36E-02	4.00E+02		(3.9)			g	
Batch: 1083114	GAMMA_GS			**Work Order:**	MF4G41AA		**Report DB ID:**	MF4G41AB				
AG-108M	3.86E-03	U	9.6E-03	9.6E-03	1.74E-02	pCi/g		0.22	3/28/11 02:39 a		348.0	GER10$1
								0.8			g	
AMERICIUM 241	-4.90E-02	U	4.3E-02	4.3E-02	6.86E-02	pCi/g		-0.71	3/28/11 02:39 a		348.0	GER10$1
								-(2.3)			g	
CO-60	1.21E-02	U	1.1E-02	1.1E-02	2.28E-02	pCi/g		0.53	3/28/11 02:39 a		348.0	GER10$1
						5.00E-02		(2.1)			g	
CS-137	1.11E-02	U	1.1E-02	1.1E-02	2.07E-02	pCi/g		0.53	3/28/11 02:39 a		348.0	GER10$1
						1.00E-01		(2.)			g	
EU-152	-4.43E-03	U	3.9E-02	3.9E-02	5.58E-02	pCi/g		-0.08	3/28/11 02:39 a		348.0	GER10$1
						1.00E-01		-0.23			g	
EU-154	-2.95E-03	U	2.7E-02	2.7E-02	4.96E-02	pCi/g		-0.06	3/28/11 02:39 a		348.0	GER10$1
						1.00E-01		-0.22			g	
EU-155	6.77E-03	U	3.2E-02	3.2E-02	5.45E-02	pCi/g		0.12	3/28/11 02:39 a		348.0	GER10$1
						1.00E-01		0.43			g	
Batch: 1083126	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MF4HK1AA		**Report DB ID:**	MF4HK1AB				
STRONTIUM	-6.12E-02	U	4.5E-02	4.8E-02	1.27E-01	pCi/g	94%	-0.48	4/1/11 04:23 p		5.99	GPC32B
					5.91E-02			-(2.6)			g	

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

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.
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

LCS RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0135

Report No. : 46147

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: 1087328	7196_CR6			Work Order:	MF9J41AC		Report DB ID:	MF9J41AS					
HEXCHROME	1.99E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		99%	3/28/11 01:15 p	2.5	
							Rec Limits:	80	120	0.0		g	
Batch: 1083118	C14_CHEM_LSC			Work Order:	MF4G91AC		Report DB ID:	MF4G91CS					
C-14	7.13E+00		4.2E-01	5.2E-01	4.75E-01	pCi/g	100%	7.33E+00	1.2E-01	97%	4/2/11 03:34 a	5.0	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1083115	PUISO_PLATE_AEA			Work Order:	MF4G51AC		Report DB ID:	MF4G51CS					
PU239/40	7.75E+00		1.1E+00	2.0E+00	1.52E-01	pCi/g	90%	6.92E+00	2.1E-01	112%	4/5/11 12:09 p	0.99	ALP130
							Rec Limits:	70	130	0.1		g	
Batch: 1083117	UISO_IE_PLATE_AEA			Work Order:	MF4G71AC		Report DB ID:	MF4G71CS					
U-234	3.59E+00		6.2E-01	9.6E-01	1.19E-01	pCi/g	84%	3.21E+00	9.9E-02	112%	4/3/11 02:45 p	1.02	ALP9
							Rec Limits:	70	130	0.1		g	
U-238	3.14E+00		5.8E-01	8.7E-01	9.90E-02	pCi/g	84%	3.36E+00	1.0E-01	93%	4/3/11 02:45 p	1.02	ALP9
							Rec Limits:	70	130	-0.1		g	
Batch: 1083121	NI63_LSC			Work Order:	MF4HC1AC		Report DB ID:	MF4HC1CS					
NI-63	4.73E+02		1.7E+01	4.7E+01	1.13E+01	pCi/g	93%	5.30E+02	8.9E+00	89%	4/3/11 02:25 a	0.24	LSC3
							Rec Limits:	70	130	-0.1		g	
Batch: 1083123	906.0_H3_LSC			Work Order:	MF4HG1AC		Report DB ID:	MF4HG1CS					
H-3	2.69E-01		2.3E-02	2.5E-02	3.31E-02	pCi/g	100%	2.57E-01	7.7E-03	105%	3/31/11 07:49 p	107.1	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1083114	GAMMA_GS			Work Order:	MF4G41AC		Report DB ID:	MF4G41CS					
CS-137	1.09E+00		1.5E-01	1.5E-01	3.34E-02	pCi/g		1.09E+00	1.1E-02	101%	3/28/11 02:48 a	350.1	GER13$1
							Rec Limits:	70	130	0.0		g	

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

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FORM II

LCS RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0135

Report No. : 46147

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: 1083126	SRTOT_SEP_PRECIP_GPC			Work Order: MF4HK1AC			Report DB ID: MF4HK1CS						
STRONTIUM	9.47E-01		1.2E-01	2.7E-01	1.22E-01	pCi/g	94%	1.13E+00	3.1E-02	84%	4/1/11 04:23 p	5.98	GPC32C
							Rec Limits:	70	130	-0.2		g	

No. of Results: 9 Comments:

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

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V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 06-Apr-11

Lab Name: TestAmerica **SDG:** JP0135

Lot-Sample No.: J1C230595-1, J1FJM2 **Report No. :** 46147 **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: 1087328	Work Order: MF32D1AL			Report DB ID: MF32D1CW			Orig Sa DB ID: 9MF32D10					
HEXCHROME	8.83E+00			0.0E+00	1.52E-01	mg/kg	N/A	87.29%	1.01E+01	3/28/11 01:15 p	2.5 g	7196_CR6
	1.59E-01											

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

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

V5.2.12 A2002

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/6/2011 11:07:11 AM

Lot No., Due Date: J1C230595; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083115; RPUISO Pulso by ALP
SDG, Matrix: JP0135; SOIL

1.0 COC			
1.1 Is the COC 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 Anderson Date 4/6/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083115

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

4/4/2011 3:37:35 PM

Lot No., Due Date: J1C230595; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083117; RUISO Uiso by ALP
SDG, Matrix: JP0135; 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 Gustafson **Date** 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083117

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 Co Date: 4/5/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/4/2011 3:43:39 PM

Lot No., Due Date: J1C230595; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083126; RSRTOT SrTot by GPC
SDG, Matrix: JP0135; 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 Tra Antonson Date 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1083126

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

3/28/2011 11:12:06 AM

Lot No., Due Date: J1C230595; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083114; RGAMMA Gamma by GER
SDG, Matrix: JP0135; 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:
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: 1083114

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 #: 10-178556

Second Level Review: [signature] Date: 3/29/11

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-17856
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): J1C230595 (1,10,11,12,2,3,4,5,6,7,8,9), J1C240000 (114),
QC Batches: 1083114,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	03/28/2011	Some samples exhibited elevated MDA's for Eu, due to the priority short 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

Date Printed: 3/28/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/1/2011 10:11:15 AM

Lot No., Due Date: J1C230595; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083123; RTRITIUM H-3 by LSC
SDG, Matrix: JP0135; 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 Autorson Date 4/1/11

TestAmerica Richland

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083123

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 = 10.0 pCi/g

Second Level Review: Rhonda Wiggle Date: 4/1/11 RW

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/4/2011 4:16:18 PM

Lot No., Due Date: J1C230595; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083118; RC14 C-14 by LSC
SDG, Matrix: JP0135; 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 [signature] Date 4/4/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1083118

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

4/5/2011 11:03:22 AM

Lot No., Due Date: J1C230595; 03/30/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1083121; RNI63 Ni-63 by LSC
SDG, Matrix: JP0135; 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: 1083121

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: [signature] Date: 4/5/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1087328
Lab Sample Numbers or SDG: JP0135
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: [illegible] Date: 3-29-11

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-210	Page 1 of 3

Collector: Blankingship	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 1		SAF No.: RC-074
Ice Chest No.: N/A	Field Logbook No.: EL-1607-~~09~~10 JKD 3/23/11	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

SDG# JP0135
Lot# J1C230595
Due 3-30-11

Special Handling and/or Storage

Cool 4 Deg C

J1C230595

SAMPLE ANALYSIS

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
	See item (4) 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 QEA Shipping Screen
Sample No.	Matrix *	Sample Date	Sample Time									RCF
J1FJM2	SOIL	3/23/11	0750		✓	✓	✓	✓	✓	MF320	✓		27385
J1FJM3	SOIL	3/23/11	0755		✓	✓	✓	✓	✓	MF320	✓		
J1FJM4	SOIL	3/23/11	0800		✓	✓	✓	✓	✓	MF323	✓		
J1FJM5	SOIL	3/23/11	0805		✓	✓	✓	✓	✓	MF324	✓		
J1FJM6	SOIL	3/23/11	0820		✓	✓	✓	✓	✓	MF327	✓		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature]	3-23-11 0910	[signature]	0910 3/23/11
[signature]	3/23/11 1040	[signature]	1040 3-23-11
J.E. Bahl	3-23-11 1515	TALR Cameron Kropa	1515 3-23-11

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 AJ DATE 3-23-11

JP0135

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

87

TestAmerica Laboratories, Inc.

88

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-210	Page 2 of 3
Collector: Blankinship	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~81~~ 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 1	SAF No.: RC-074	D 3/10/11 D 3/10/11
Ice Chest No.: N/A	Field Logbook No.: EL-1607-~~0510~~ JPD 3/23/11; COA: R118D22000	Method of Shipment: D 3/10/11 ~~N/A~~ HANDDELIVER	
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

SDG# JP0135
Lot# J1C230595
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							
J1FJM7	SOIL	3/23/11	0825		✓	✓	✓	✓	✓	MF328 ✓		RCF
J1FJM8	SOIL	3/23/11	0830		✓	✓	✓	✓	✓	MF329 ✓		27385
J1FJM9	SOIL	3/23/11	0835		✓	✓	✓	✓	✓	MF33A ✓		
J1FJN0	SOIL	3/23/11	0850		✓	✓	✓	✓	✓	MF33C ✓		
J1FJN1	SOIL	3/23/11	0855		✓	✓	✓	✓	✓	MF33D ✓		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature]	3-23-11 0910	JPDeBuigne [signature]	0910 3/23/11
JPDeBuigne [signature]	3/23/11 1040	A. Freier [signature]	1040 3-23-11
WCH A. Freier [signature]	~~1550~~ 1515 3-23-11	TALR Cameron Kromma [signature]	1515 3-23-11

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

JP0135

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wl=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-074-210	Page 3 of 3
Collector: Blan Kingship	Company Contact: D Woolery; Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B D 3/10/11
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil In-Proce	Sampling Location: 118-D-2 Excavation Area 1	SAF No.: RC-074	Data Turnaround: ~~21~~ 7 Days D 3/10/11
Ice Chest No.: N/A	Field Logbook No.: EL-1607-0910 JRD 3/23/11; 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

SDG#JP0135
Lot#J1C230595
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	
	3/10/11						JRD 3/23/11		3/10/11	

Sample No.	Matrix *	Sample Date	Sample Time										
J1FJN2	SOIL	3/23/11	0900		✓	✓	✓	✓	✓	MF33E ✓			RCF 27385
J1FJN3	SOIL	3/23/11	0905		✓	✓	✓	✓	✓	MF33F ✓			

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Mark Quinlivan	3-23-11 0910	TRBuigne	0910 3/23/11
TRBuigne	1040 3/23/11	A. Freier	1040 3-23-11
A. Freier	1550 3-23-11 1515	TALR Cameron Kropa	1515 3-23-11

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

JP0135

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

Apex™

Analysis Report for RCF27385

J1FJM8 SAF:RC-074 100D/118-D-2 EX1-7 Excavation Area 1

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF27385
Sample Description	: J1FJM8 SAF:RC-074 100D/118-D-2 EX1-7 Excavation Area 1
Sample Type	: 80g pillbox
Sample Size	: 7.800E+01 grams
Facility	: Default
Sample Taken On	: 3/23/2011 8:30:00AM
Acquisition Started	: 3/23/2011 9:47:23AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: OLI2
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3603.9 seconds
Dead Time	: 0.11 %
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	: 3/15/2011
Efficiency Calibration Used Done On	: 12/2/2010
Efficiency Calibration Description	: OLI2 80gPB EC 120110 SN82752-238
Sample Number	: 12875

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
CS-137	0.995	9.66E+00	6.86E-01	
AM-241	0.999	4.08E-01	2.10E-01	

J1C230595

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 3·23·11 1515 GM Screen Result (out) .3 (in) .7 Initials [CK]

Client: WCH SDG #: JP0135 NA [ ] SAF #: RC-074 NA [ ]

Work Order Number: JIC230595 Chain of Custody # RC-074-210

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 @ 1 X 1 HR 60 ML & 1 X 500 ML P per
7. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
8. Samples have: (soils)
   - ___ tape
   - CK custody seals
   - ___ 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 : N/A
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: Cameron [signature] Date: 3·23·11 1515

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is

Project Manager [signature] Date 3/23/11

LS-023, Rev. 12, 10/10

3/25/2011 11:06:01 AM

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AnalyDueDate: 03/30/2011

Sample Preparation/Analysis

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

Copp'T
PRIORITY

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

Batch: 1083115 **SOIL** **pCi/g** **PM, Quote: RW2, 27038**
SEQ Batch, Test: None All Tests: DWEA, 1083114 AXTA, 1083115 6ASO, 1083117 7SSR, 1083118 5SS3, 1083121 AFS4, 1083123 ATS6, 1083126 CHTH,

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 MF32D-1-AF J1C230595-1-SAMP 03/23/2011 07:50	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	PUTC12131 03/17/11,pd 01/01/10,r	5 Omin			Scr: Alpha: Beta:	
2 MF320-1-AF J1C230595-2-SAMP 03/23/2011 07:55	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	PUTC12132 03/17/11,pd 01/01/10,r				Scr: Alpha: Beta:	
3 MF320-1-AK-X J1C230595-2-DUP 03/23/2011 07:55	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.02g,in	PUTC12133 03/17/11,pd 01/01/10,r				Scr: Alpha: Beta:	
4 MF323-1-AF J1C230595-3-SAMP 03/23/2011 08:00	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	0.99g,in	PUTC12134 03/17/11,pd 01/01/10,r				Scr: Alpha: Beta:	
5 MF324-1-AF J1C230595-4-SAMP 03/23/2011 08:05	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.00g,in	PUTC12135 03/17/11,pd 01/01/10,r				Scr: Alpha: Beta:	
6 MF327-1-AF J1C230595-5-SAMP 03/23/2011 08:20	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	PUTC12136 03/17/11,pd 01/01/10,r				Scr: Alpha: Beta:	
7 MF328-1-AF J1C230595-6-SAMP 03/23/2011 08:25	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.01g,in	PUTC12137 03/17/11,pd 01/01/10,r				Scr: Alpha: Beta:	

3/25/2011 11:06:02 AM

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: 1083115 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

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 MF329-1-AF J1C230595-7-SAMP 03/23/2011 08:30	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12138 03/17/11,pd 01/01/10,r #Containers: 2	5Cmi		Scr:	Alpha:	Beta:
9 MF33A-1-AF J1C230595-8-SAMP 03/23/2011 08:35	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	PUTC12139 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
10 MF33C-1-AF J1C230595-9-SAMP 03/23/2011 08:50	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	PUTC12140 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
11 MF33D-1-AF J1C230595-10-SAMP 03/23/2011 08:55	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	PUTC12141 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
12 MF33E-1-AF J1C230595-11-SAMP 03/23/2011 09:00	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12142 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
13 MF33F-1-AF J1C230595-12-SAMP 03/23/2011 09:05	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	PUTC12143 03/17/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
14 MF4G5-1-AA-B J1C240000-115-BLK 03/24/2011 08:36 pd	AmtRec:	0.99g,in	PUTC12144 03/17/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:

3/25/2011 11:06:02 AM

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: 1083115 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

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 MF4G5-1-AC-C		0.99g,in	PUSK0840					
J1C240000-115-LCS			03/10/11,pd	50min				
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: MF32D-SAMP "ISV. Recount DUP on a different detector."

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

MF32D1AF-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						
MF4G51AA-BLK:											
PU-238	RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:	UCL:	RPD:
Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35						
MF4G51AC-LCS:											
PU-239	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35

MF32D1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

4/6/2011 11:06:40 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/6/2010, 4/11/2011, Batch: '1083115', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083115						
AC		Rev1C	BouslaughP	3/25/2011 10:35:46		
SC			MaucleriS	IsBatched	3/24/2011 8:53:25 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/25/2011 10:35:46 AM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/28/2011 1:03:11 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep1C	3/31/2011 10:29:18 AM	RL-ALP-001 REVISION 2
SC			BockT	Sep2C	4/5/2011 11:02:25 AM	RL-ALP-016 REVISION 1
SC			ClarkR	InCnt1	4/5/2011 11:07:21 AM	RL-CI-008 REVISION 1
SC			ClarkR	CalcC	4/5/2011 3:17:42 PM	RL-CI-008 REVISION 1
SC			antonsonl	Rev1C	4/6/2011 11:04:42 AM	RL-DR-001 Rev 2
AC			WoodT	3/28/2011 1:03:11		
AC			JorgensonD	3/31/2011 10:29:18		
AC			BockT	4/5/2011 11:02:25		RL-ALP-016
AC			ClarkR	4/5/2011 11:07:21		
AC			ClarkR	4/5/2011 3:17:42 PM		
AC			antonsonl	4/6/2011 11:04:42		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

3/25/2011 12:43:26 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083117 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP

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 MF32D-1-AC J1C230595-1-SAMP 03/23/2011 07:50	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.00g,in	UITC26015 03/07/11,pd 06/15/01,r	50min		Scr:	Alpha:	Beta:
2 MF320-1-AC J1C230595-2-SAMP 03/23/2011 07:55	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.00g,in	UITC26016 03/07/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
3 MF323-1-AC J1C230595-3-SAMP 03/23/2011 08:00	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.00g,in	UITC26017 03/07/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
4 MF323-1-AK-X J1C230595-3-DUP 03/23/2011 08:00	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.00g,in	UITC26018 03/07/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
5 MF324-1-AC J1C230595-4-SAMP 03/23/2011 08:05	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	0.98g,in	UITC26019 03/07/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
6 MF327-1-AC J1C230595-5-SAMP 03/23/2011 08:20	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	0.99g,in	UITC26020 03/07/11,pd 06/15/01,r			Scr:	Alpha:	Beta:
7 MF328-1-AC J1C230595-6-SAMP 03/23/2011 08:25	AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2	1.02g,in	UITC26021 03/07/11,pd 06/15/01,r			Scr:	Alpha:	Beta:

3/25/2011 12:43:26 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

PRIORITY

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

AnalyDueDate: 03/30/2011

Batch: 1083117 SOIL pCi/g PM, Quote: RW2, 27038

SEQ 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:
8 MF329-1-AC J1C230595-7-SAMP 03/23/2011 08:30	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	UITC26022 03/07/11,pd 06/15/01,r	50min	#Containers: 2	Scr:	Alpha:	Beta:
9 MF33A-1-AC J1C230595-8-SAMP 03/23/2011 08:35	AmtRec: 1XJAR60MLG,1X500MLP	0.99g,in	UITC26023 03/07/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
10 MF33C-1-AC J1C230595-9-SAMP 03/23/2011 08:50	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	UITC26024 03/07/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
11 MF33D-1-AC J1C230595-10-SAMP 03/23/2011 08:55	AmtRec: 1XJAR60MLG,1X500MLP	1.00g,in	UITC26025 03/07/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
12 MF33E-1-AC J1C230595-11-SAMP 03/23/2011 09:00	AmtRec: 1XJAR60MLG,1X500MLP	0.99g,in	UITC26026 03/07/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
13 MF33F-1-AC J1C230595-12-SAMP 03/23/2011 09:05	AmtRec: 1XJAR60MLG,1X500MLP	1.01g,in	UITC26027 03/07/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
14 MF4G7-1-AA-B J1C240000-117-BLK 03/24/2011 08:36 pd	AmtRec:	1.00g,in	UITC26028 03/07/11,pd 06/15/01,r		#Containers: 1	Scr:	Alpha:	Beta:

3/25/2011 12:43:27 PM

Sample Preparation/Analysis

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

PRIORITY

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083117 pCi/g
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

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 MF4G7-1-AC-C		1.02g,in	UISH1295					
J1C240000-117-LCS			03/03/11,pd 06/15/01,r	50min				
03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: MF32D-SAMP "ISV. Recount DUP on a different detector."

Sample #8 lost 5mL of sample due to filter breaking
3-30-11

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

MF32D1AC-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:

MF4G71AA-BLK:

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:

MF4G71AC-LCS:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	Uranium	RDL:	pCi/g	LCL:70	UCL:130	RPD:35

MF32D1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

4/4/2011 3:36:34 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083117', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083117						
AC		Rev1C	BouslaughP	3/25/2011 12:19:48		
SC			MaucleriS	IsBatched	3/24/2011 8:53:31 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/25/2011 12:19:48 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/28/2011 1:04:09 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/28/2011 7:33:00 AM	RL-PRP-003 REVISION 1
SC			HoganH	Sep1C	3/30/2011 4:07:17 PM	ALP-004 REVISION 1
SC			HoganH	Sep2C	4/1/2011 10:23:23 AM	RL-ALP-015 REVISION 1
SC			ClarkR	InCnt1	4/1/2011 10:30:28 AM	RL-CI-008 REVISION 1
SC			DawkinsO	CalcC	4/3/2011 9:48:11 PM	RL-CI-008 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 3:35:26 PM	RL-DR-001 Rev 2
AC			WoodT	3/28/2011 1:04:09		
AC			BouslaughP	3/28/2011 7:33:00		
AC			HoganH	3/30/2011 4:07:17 PM		
AC			HoganH	4/1/2011 10:23:23		
AC			ClarkR	4/1/2011 10:30:28		
AC			DawkinsO	4/3/2011 9:48:11 PM		
AC			antonsonl	4/4/2011 3:35:26 PM		

AC: Accepting Entry; SC: Status Change

3/25/2011 1:06:56 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

PRIORITY

Sep1 DT/Tm Tech: 10:10 4/1/11 APA

Batch: 1083126 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: BouslaughP

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 MF32D-1-AD J1C230595-1-SAMP 03/23/2011 07:50	5.99g,in AmtRec: 1XJAR60MLG,1X500MLP		SRTA20825 03/16/11 #Containers: 2	1.5	1.4673g -1.4065g 60.6mg	50min	26A	1648	4/1/11 OD	Scr: Alpha: Beta:
2 MF320-1-AD J1C230595-2-SAMP 03/23/2011 07:55	5.99g,in AmtRec: 1XJAR60MLG,1X500MLP		SRTA20826 03/16/11 #Containers: 2		1.4753g -1.4165g 58.8mg		26B			Scr: Alpha: Beta:
3 MF323-1-AD J1C230595-3-SAMP 03/23/2011 08:00	5.98g,in AmtRec: 1XJAR60MLG,1X500MLP		SRTA20827 03/16/11 #Containers: 2		1.4602g -1.4087g 51.5mg		26C			Scr: Alpha: Beta:
4 MF324-1-AD J1C230595-4-SAMP 03/23/2011 08:05	6.00g,in AmtRec: 1XJAR60MLG,1X500MLP		SRTA20828 03/16/11 #Containers: 2		1.4748g -1.4262g 48.6mg		26D			Scr: Alpha: Beta:
5 MF327-1-AD J1C230595-5-SAMP 03/23/2011 08:20	5.98g,in AmtRec: 1XJAR60MLG,1X500MLP		SRTA20829 03/16/11 #Containers: 2		1.4773g -1.4218g 55.5mg		27A			Scr: Alpha: Beta:
6 MF328-1-AD J1C230595-6-SAMP 03/23/2011 08:25	5.99g,in AmtRec: 1XJAR60MLG,1X500MLP		SRTA20830 03/16/11 #Containers: 2		1.4634g -1.4106g 52.8mg		27D			Scr: Alpha: Beta:
7 MF329-1-AD J1C230595-7-SAMP 03/23/2011 08:30	5.99g,in AmtRec: 1XJAR60MLG,1X500MLP		SRTA20831 03/16/11 #Containers: 2		1.4721g -1.4240g 48.1mg		27B			Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

3/25/2011 1:06:57 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

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 1083126 SOIL pCi/g

PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

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 MF329-1-AK-X J1C230595-7-DUP 03/23/2011 08:30		5.99g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20832 03/16/11 #Containers: 2	1.5	1.4560g -1.4110g 45.0mg	50min	27C	1648	4/1/11 CAP Scr: Alpha:	Beta:
9 MF33A-1-AD J1C230595-8-SAMP 03/23/2011 08:35		6.00g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20833 03/16/11 #Containers: 2		1.4722g -1.4122g 50.0mg		28C		Scr: Alpha:	Beta:
10 MF33C-1-AD J1C230595-9-SAMP 03/23/2011 08:50		6.02g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20834 03/16/11 #Containers: 2		~~1.4637g~~ 4/1/11 ~~1.4100g~~ 4/1/11 4/1/11 ~~53.7mg~~	1.4873g -1.4298g 57.5mg	31A		Scr: Alpha:	Beta:
11 MF33D-1-AD J1C230595-10-SAMP 03/23/2011 08:55		6.01g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20835 03/16/11 #Containers: 2		1.4747g -1.4217g 53.0mg		31B		Scr: Alpha:	Beta:
12 MF33E-1-AD J1C230595-11-SAMP 03/23/2011 09:00		5.99g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20836 03/16/11 #Containers: 2		1.4637g -1.4100g 53.7		31D		Scr: Alpha:	Beta:
13 MF33F-1-AD J1C230595-12-SAMP 03/23/2011 09:05		6.01g,in AmtRec: 1XJAR60MLG,1X500MLP	SRTA20837 03/16/11 #Containers: 2		1.4765g -1.4113g 65.2mg		32A		Scr: Alpha:	Beta:
14 MF4HK-1-AA-B J1C240000-126-BLK 03/24/2011 08:36 pd		5.99g,in AmtRec:	SRTA20838 03/16/11 #Containers: 1		1.5108g -1.4165g 94.3mg		32B		Scr: Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/25/2011 1:06:57 PM

Sample Preparation/Analysis

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

PRIORITY

Balance Id:1120373922
Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083126 pCi/g
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BouslaughP

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 MF4HK-1-AC-C J1C240000-126-LCS 03/24/2011 08:36 pd		5.98g,in AmtRec:	STSB1582 03/10/11 #Containers: 1	1.5	1.5038g -1.4200g 93.8 mg	50min	32C	1648	4/1/11 OD	

Scr: Alpha: Beta:

Comments: ~~MF32D-SAMP "ISV Recount DUP on a different detector."~~ 4/1/11 APA

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

MF32D1AD-SAMP Constituent List:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
MF4HK1AA-BLK:
Sr-90 RDL:1 pCi/g LCL: UCL: RPD:
MF4HK1AC-LCS:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
MF32D1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HK1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HK1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

4/4/2011 3:42:58 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083126', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083126						
AC		Rev1C	BouslaughP	3/25/2011 12:45:28		
SC			MauclerlS	IsBatched	3/24/2011 8:53:57 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/25/2011 12:45:28 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/28/2011 1:03:17 AM	RL-PRP-003 REVISION 1
SC			AshworthA	Sep2C	4/1/2011 12:30:41 PM	RL-GPC-011 REVISION 1
SC			ClarkR	InCnt1	4/1/2011 12:50:31 PM	RL-CI-006 REVISION 1
SC			DawkinsO	CalcC	4/1/2011 11:35:12 PM	RL-CI-006 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 3:42:50 PM	RL-DR-001 Rev 2
AC			WoodT	3/28/2011 1:03:17		
AC			AshworthA	4/1/2011 12:30:41 PM		
AC			ClarkR	4/1/2011 12:50:31 PM		
AC			DawkinsO	4/1/2011 11:35:12 PM		
AC			antonsonl	4/4/2011 3:42:50 PM		

AC: Accepting Entry; SC: Status Change

TRLSP Liu

3/25/2011 1:11:50 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: 1083114 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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:
1 MF32D-1-AH J1C230595-1-SAMP 03/23/2011 07:50			390.90g,in	390.90g		$200 gco	200min	G15	1632	3/26/11 kw	
2 MF32D-1-AK-X J1C230595-1-DUP 03/23/2011 07:50			ISV					G14	2004	3/26/11 kw	
3 MF320-1-AH J1C230595-2-SAMP 03/23/2011 07:55			391.70g,in	391.70g				G11	1633	3/26/11 kw	
4 MF323-1-AH J1C230595-3-SAMP 03/23/2011 08:00			356.50g,in	356.50g				G14	1633		
5 MF324-1-AH J1C230595-4-SAMP 03/23/2011 08:05			409.90g,in	409.90g				G7	1634		
6 MF327-1-AH J1C230595-5-SAMP 03/23/2011 08:20			413.10g,in	413.10g				G10	1634		
7 MF328-1-AH J1C230595-6-SAMP 03/23/2011 08:25			385.10g,in	385.10g				G10	2005	3/26/11 kw	

AmtRec: 1XJAR60MLG,1X500MLP #Containers: 2 — Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

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3/25/2011 1:11:51 PM

FRLSP

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: 1083114 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BouslaughP

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:
8 MF329-1-AH J1C230595-7-SAMP 03/23/2011 08:30			416.00g,in AmtRec: 1XJAR60MLG,1X500MLP	416.00g #Containers: 2		5200 gec	200min	G7 Scr:	2005 Alpha:	3/26/AHL Beta:	
9 MF33A-1-AH J1C230595-8-SAMP 03/23/2011 08:35			416.90g,in AmtRec: 1XJAR60MLG,1X500MLP	416.90g #Containers: 2				G11 Scr:	2006 Alpha:	Beta:	
10 MF33C-1-AH J1C230595-9-SAMP 03/23/2011 08:50			385.60g,in AmtRec: 1XJAR60MLG,1X500MLP	385.60g #Containers: 2				G15 Scr:	2007 Alpha:	Beta:	
11 MF33D-1-AH J1C230595-10-SAMP 03/23/2011 08:55			428.70g,in AmtRec: 1XJAR60MLG,1X500MLP	428.70g #Containers: 2				G11 Scr:	0557 Alpha:	3/25/11 LS Beta:	
12 MF33E-1-AH J1C230595-11-SAMP 03/23/2011 09:00			415.30g,in AmtRec: 1XJAR60MLG,1X500MLP	415.30g #Containers: 2				G14 Scr:	0557 Alpha:	Beta:	
13 MF33F-1-AH J1C230595-12-SAMP 03/23/2011 09:05			396.30g,in AmtRec: 1XJAR60MLG,1X500MLP	396.30g #Containers: 2				G7 Scr:	0557 Alpha:	Beta:	
14 MF4G4-1-AA-B J1C240000-114-BLK 03/24/2011 08:36 pd			348.00g,in AmtRec:	348.00g #Containers: 1				G10 Scr:	0559 Alpha:	3/26 Beta:	

3/25/2011 1:11:51 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: 1083114 pCi/g
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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:
15 MF4G4-1-AC-C			350.10g,in	350.10g	QC20009						
J1C240000-114-LCS					08/04/09,pd 09/01/09,r	5 sec sec	200min	G3	dcK	3/28/11	
03/24/2011 08:36 pd			AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: MF32D-SAMP "ISV. Recount DUP on a different detector."

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

MF32D1AH-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:

MF4G41AA-BLK:

Co-60	RDL:5.00E-02	pCi/g	LCL:	UCL:	RPD:	Cs-137	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:
Cs-137DA	RDL:1.00E-01	pCi/g	LCL:	UCL:	RPD:	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:

MF4G41AC-LCS:

Cs-137	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35	Cs-137DA	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35
K-40	RDL:--	pCi/g	LCL:70	UCL:130	RPD:35	Ra-226	RDL:0.1	pCi/g	LCL:70	UCL:130	RPD:35
RA-228	RDL:0.2	pCi/g	LCL:70	UCL:130	RPD:35	RA-228DA	RDL:0.2	pCi/g	LCL:70	UCL:130	RPD:35
U-238	RDL:	pCi/g	LCL:70	UCL:130	RPD:35						

MF32D1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G41AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G41AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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3/28/2011 11:11:21 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/28/2010, 4/2/2011, Batch: '1083114', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083114						
AC		**Rev1C**	**BouslaughP**	3/25/2011 8:43:35		
SC			MaucieriS	IsBatched	3/24/2011 8:53:18 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/25/2011 8:43:35 AM	RL-GAM-001 REVISION 1
SC			ClarkR	InCnt1	3/26/2011 12:42:45 PM	RL-CI-007 REVISION 1
SC			BlackCL	CalcC	3/28/2011 9:07:35 AM	RL-CI-008
SC			WhelandS	Rev1C	3/28/2011 11:07:18 AM	RL-DR-001 Rev 2
AC			**ClarkR**	3/26/2011 12:42:45		
AC			**BlackCL**	3/28/2011 9:07:35		rl-ci-007
AC			**WhelandS**	3/28/2011 11:07:18		

AC: Accepting Entry; SC: Status Change

26,28

TestAmerica Laboratories, Inc.

3/24/2011 8:36:43 AM

Sample Preparation/Analysis

Balance Id:

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083123 SOIL pCi/g 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF32D-1-AG J1C230595-1-SAMP 03/23/2011 07:50		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MF320-1-AG J1C230595-2-SAMP 03/23/2011 07:55		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MF323-1-AG J1C230595-3-SAMP 03/23/2011 08:00		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MF324-1-AG J1C230595-4-SAMP 03/23/2011 08:05		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MF327-1-AG J1C230595-5-SAMP 03/23/2011 08:20		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MF328-1-AG J1C230595-6-SAMP 03/23/2011 08:25		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MF328-1-AK-X J1C230595-6-DUP 03/23/2011 08:25		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:

3/24/2011 8:36:44 AM

Sample Preparation/Analysis

Balance Id:

27642, 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: 1083123 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

QEQ 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:
MF329-1-AG J1C230595-7-SAMP 03/23/2011 08:30		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MF33A-1-AG J1C230595-8-SAMP 03/23/2011 08:35		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MF33C-1-AG J1C230595-9-SAMP 03/23/2011 08:50		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MF33D-1-AG J1C230595-10-SAMP 03/23/2011 08:55		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MF33E-1-AG J1C230595-11-SAMP 03/23/2011 09:00		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MF33F-1-AG J1C230595-12-SAMP 03/23/2011 09:05		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MF4HG-1-AA-B J1C240000-123-BLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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3/24/2011 8:36:45 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: 1083123 pCi/g
DEQ 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 MF4HG-1-AC-C J1C240000-123-LCS 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MF4HG-1-AD-BN J1C240000-123-IBLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MF4HG-1-AE-BN J1C240000-123-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

MF32D1AG-SAMP Constituent List:
H-3 RDL:400 pCi/g LCL:70 UCL:130 RPD:35
MF4HG1AA-BLK:

MF4HG1AC-LCS:

MF4HG1AD-IBLK:

MF4HG1AE-IBLK:

MF32D1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HG1AA-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: 1083123 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:

MF4HG1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HG1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HG1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/1/2011 10:10:11 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/1/2010, 4/6/2011, Batch: '1083123', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083123						
AC		Rev1C	ClarkR	3/29/2011 9:04:53		
SC			MaucieriS	IsBatched	3/24/2011 8:53:51 AM	ICOC_RADCALC v4.8.49
SC			ClarkR	InCnt1	3/29/2011 9:04:53 AM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	4/1/2011 7:37:43 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	4/1/2011 10:10:01 AM	RL-DR-001 Rev 2
AC			BlackCL	4/1/2011 7:37:43 AM		
AC			antonsonl	4/1/2011 10:10:01		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 3

ICOCFractions v4.8.44

TestAmerica Laboratories, Inc.

03/24/2011 8:36:40 AM

Sample Preparation/Analysis

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 03/30/2011

Batch: 1083118 SOIL pCi/g PM, Quote: RW2, 27038

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:
8 MF329-1-AJ J1C230595-7-SAMP 03/23/2011 08:30	5.013g.	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MF33A-1-AJ J1C230595-8-SAMP 03/23/2011 08:35	5.018g.	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MF33C-1-AJ J1C230595-9-SAMP 03/23/2011 08:50	5.045g.	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MF33D-1-AJ J1C230595-10-SAMP 03/23/2011 08:55	5.040g	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MF33E-1-AJ J1C230595-11-SAMP 03/23/2011 09:00	5.048g	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MF33F-1-AJ J1C230595-12-SAMP 03/23/2011 09:05	5.015g	AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MF4G9-1-AA-B J1C240000-118-BLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

51,89

3/24/2011 8:36:39 AM

Sample Preparation/Analysis

Balance Id:

27642, 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: 1083118 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

REQ 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 MF32D-1-AJ J1C230595-1-SAMP 03/23/2011 07:50		5.058g AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MF320-1-AJ J1C230595-2-SAMP 03/23/2011 07:55		5.037g AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MF323-1-AJ J1C230595-3-SAMP 03/23/2011 08:00		5.038g AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MF324-1-AJ J1C230595-4-SAMP 03/23/2011 08:05		5.050g AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MF324-1-AK-X J1C230595-4-DUP 03/23/2011 08:05		5.013g. AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MF327-1-AJ J1C230595-5-SAMP 03/23/2011 08:20		5.066g. AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MF328-1-AJ J1C230595-6-SAMP 03/23/2011 08:25		5.057g. AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:

3/24/2011 8:36:40 AM

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: 1083118 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 MF4G9-1-AC-C J1C240000-118-LCS 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 MF4G9-1-AD-BN J1C240000-118-IBLK 03/24/2011 08:36 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MF4G9-1-AE-BN J1C240000-118-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

MF32D1AJ-SAMP Constituent List:
C-14 RDL:50 pCi/g LCL:70 UCL:130 RPD:35
MF4G91AA-BLK:

MF4G91AC-LCS:

MF4G91AD-IBLK:

MF4G91AE-IBLK:

MF32D1AJ-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G91AA-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: 1083118 pCi/g

EQ 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:

MF4G91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G91AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4G91AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.
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4/4/2011 4:15:41 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/4/2010, 4/9/2011, Batch: '1083118', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083118						
AC		Rev1C	ClarkR	3/29/2011 9:28:24		
SC			MauclerlS	IsBatched	3/24/2011 8:53:37 AM	ICOC_RADCALC v4.8.49
SC			ClarkR	InCnt1	3/29/2011 9:28:24 AM	RL-CI-005 REVISION 1
SC			ClarkR	CalcC	4/2/2011 1:25:08 PM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	4/4/2011 4:15:32 PM	RL-DR-001 Rev 2
AC			ClarkR	4/2/2011 1:25:08 PM		
AC			antonsonl	4/4/2011 4:15:32 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 3

ICOCFractions v4.8.44

3/25/2011 11:33:41 AM

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 #:

PRIORITY

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083121 SOIL pCi/g

PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF32D-1-AE J1C230595-1-SAMP 03/23/2011 07:50		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA4005 03/16/11	20min	Scr:	Alpha:		Beta:
2 MF320-1-AE J1C230595-2-SAMP 03/23/2011 07:55		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA4006 03/16/11		Scr:	Alpha:		Beta:
3 MF323-1-AE J1C230595-3-SAMP 03/23/2011 08:00		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA4007 03/16/11		Scr:	Alpha:		Beta:
4 MF324-1-AE J1C230595-4-SAMP 03/23/2011 08:05		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA4008 03/16/11		Scr:	Alpha:		Beta:
5 MF327-1-AE J1C230595-5-SAMP 03/23/2011 08:20		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA4009 03/16/11		Scr:	Alpha:		Beta:
6 MF327-1-AK-X J1C230595-5-DUP 03/23/2011 08:20		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA4010 03/16/11		Scr:	Alpha:		Beta:
7 MF328-1-AE J1C230595-6-SAMP 03/23/2011 08:25		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA4011 03/16/11		Scr:	Alpha:		Beta:

3/25/2011 11:33:42 AM

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083121 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MF329-1-AE J1C230595-7-SAMP 03/23/2011 08:30		AmtRec: 1XJAR60MLG,1X500MLP	0.25g,in	0.25g #Containers: 2	NITA4012 03/16/11	20min		Scr:	Alpha:	Beta:
9 MF33A-1-AE J1C230595-8-SAMP 03/23/2011 08:35		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA4013 03/16/11			Scr:	Alpha:	Beta:
10 MF33C-1-AE J1C230595-9-SAMP 03/23/2011 08:50		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA4014 03/16/11			Scr:	Alpha:	Beta:
11 MF33D-1-AE J1C230595-10-SAMP 03/23/2011 08:55		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA4015 03/16/11			Scr:	Alpha:	Beta:
12 MF33E-1-AE J1C230595-11-SAMP 03/23/2011 09:00		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA4016 03/16/11			Scr:	Alpha:	Beta:
13 MF33F-1-AE J1C230595-12-SAMP 03/23/2011 09:05		AmtRec: 1XJAR60MLG,1X500MLP	0.26g,in	0.26g #Containers: 2	NITA4017 03/16/11			Scr:	Alpha:	Beta:
14 MF4HC-1-AA-B J1C240000-121-BLK 03/24/2011 08:36 pd		AmtRec:	0.26g,in	0.26g #Containers: 1	NITA4018 03/16/11			Scr:	Alpha:	Beta:

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3/25/2011 11:33:42 AM

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 #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083121 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF4HC-1-AC-C J1C240000-121-LCS 03/24/2011 08:36 pd			0.24g,in AmtRec:	0.24g #Containers: 1	NISA1401 03/10/11	20min				
16 MF4HC-1-AD-BN J1C240000-121-IBLK 03/24/2011 08:36 pd			AmtRec:	#Containers: 1						
17 MF4HC-1-AE-BN J1C240000-121-IBLK 03/24/2011 08:36 pd			AmtRec:	#Containers: 1						

Scr: Alpha: Beta:

Comments: MF32D-SAMP "ISV. Recount DUP on a different detector."

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

MF32D1AE-SAMP Constituent List:

Ni-63	RDL:30	pCi/g	LCL:70	UCL:130	RPD:35
MF4HC1AA-BLK:					
Ni-63	RDL:30	pCi/g	LCL:	UCL:	RPD:
MF4HC1AC-LCS:					
Ni-63	RDL:30	pCi/g	LCL:70	UCL:130	RPD:35
MF4HC1AD-IBLK:					
Ni-63	RDL:30	pCi/g	LCL:	UCL:	RPD:
MF4HC1AE-IBLK:					
Ni-63	RDL:30	pCi/g	LCL:	UCL:	RPD:

MF32D1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF4HC1AA-BLK:

TestAmerica Laboratories, Inc.

120

3/25/2011 11:33:42 AM

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 #:

AnalyDueDate: 03/30/2011

Sep1 DT/Tm Tech:

Batch: 1083121 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

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

MF4HC1AC-LCS:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MF4HC1AD-IBLK:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MF4HC1AE-IBLK:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

4/5/2011 11:02:50 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/5/2010, 4/10/2011, Batch: '1083121', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1083121						
AC		Rev1C	BouslaughP	3/25/2011 11:08:57		
SC			MauclerIS	IsBatched	3/24/2011 8:53:43 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/25/2011 11:08:57 AM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/28/2011 1:02:55 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep2C	3/29/2011 4:12:14 PM	RL-LSC-017 REVISION 1
SC			DawkinsO	InCnt1	3/29/2011 5:19:00 PM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	4/3/2011 10:24:18 PM	RL-CI-005 REVISION 1
SC			WhelandS	Rev1C	4/5/2011 11:02:36 AM	RL-DR-001 Rev 2
AC			WoodT	3/28/2011 1:02:55		
AC			JorgensonD	3/29/2011 4:12:14 PM		
AC			DawkinsO	3/29/2011 5:19:00 PM		
AC			DawkinsO	4/3/2011 10:24:18 PM		
AC			WhelandS	4/5/2011 11:02:36		

AC: Accepting Entry; SC: Status Change

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3/28/2011 3:12:24 PM

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AnalyDueDate: 03/30/2011

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:

Batch: 1087328 **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:
1 MF32D-1-AA										
J1C230595-1-SAMP										
03/23/2011 07:50		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
2 MF32D-1-AL-S										
J1C230595-1-MS										
03/23/2011 07:50		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
3 MF32D-1-AM-D										
J1C230595-1-MSD										
03/23/2011 07:50		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
4 MF32D-1-AN-X										
J1C230595-1-DUP										
03/23/2011 07:50		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
5 MF320-1-AA										
J1C230595-2-SAMP										
03/23/2011 07:55		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
6 MF323-1-AA										
J1C230595-3-SAMP										
03/23/2011 08:00		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
7 MF324-1-AA										
J1C230595-4-SAMP										
03/23/2011 08:05		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:

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3/28/2011 3:12:25 PM

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AnalyDueDate: 03/30/2011

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:

Batch: 1087328 **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:
8 MF327-1-AA										
J1C230595-5-SAMP										
03/23/2011 08:20		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
9 MF328-1-AA										
J1C230595-6-SAMP										
03/23/2011 08:25		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
10 MF329-1-AA										
J1C230595-7-SAMP										
03/23/2011 08:30		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
11 MF33A-1-AA										
J1C230595-8-SAMP										
03/23/2011 08:35		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
12 MF33C-1-AA										
J1C230595-9-SAMP										
03/23/2011 08:50		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
13 MF33D-1-AA										
J1C230595-10-SAMP										
03/23/2011 08:55		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
14 MF33E-1-AA										
J1C230595-11-SAMP										
03/23/2011 09:00		AmtRec: 1XJAR60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:

3/28/2011 3:12:25 PM

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 #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/30/2011

Batch: 1087328 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 MF33F-1-AA J1C230595-12-SAMP 03/23/2011 09:05		AmtRec: 1XJAR60MLG,1X500MLP	#Containers: 2					Scr:	Alpha:	Beta:
16 MF9J4-1-AA-B J1C280000-328-BLK 03/28/2011 15:12 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
17 MF9J4-1-AC-C J1C280000-328-LCS 03/28/2011 15:12 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: MF32D-SAMP "ISV. Recount DUP on a different detector."

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

MF32D1AA-SAMP Constituent List:
  HEXCHROME    RDL:0.1548      mg/kg      LCL:80      UCL:120      RPD:20
MF32D1AL-MS Constituent List:

MF32D1AM-MSD:

MF9J41AA-BLK:

MF9J41AC-LCS:

MF32D1AA-SAMP Calc Info:
     Uncert Level (#s).: 2      Decay to SaDt: Y      Blk Subt.: N      Sci.Not.: Y      ODRs: B
MF32D1AL-MS Calc Info:
```


TestAmerica Laboratories, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-13853-1

SDG Number: JP0135

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 12:52 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: 280-13853-1

SDG #: JP0135
SAF#: RC-074

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

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FJM2	280-13853-1	6010/7471	6010B/7471A
J1FJM3	280-13853-2	6010/7471	6010B/7471A
J1FJM4	280-13853-3	6010/7471	6010B/7471A
J1FJM5	280-13853-4	6010/7471	6010B/7471A
J1FJM6	280-13853-5	6010/7471	6010B/7471A
J1FJM7	280-13853-6	6010/7471	6010B/7471A
J1FJM8	280-13853-7	6010/7471	6010B/7471A
J1FJM9	280-13853-8	6010/7471	6010B/7471A
J1FJN0	280-13853-9	6010/7471	6010B/7471A
J1FJN1	280-13853-10	6010/7471	6010B/7471A
J1FJN2	280-13853-11	6010/7471	6010B/7471A
J1FJN3	280-13853-12	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 1.2 C.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-59233 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Low levels of Barium are present in the method blank associated with batch 280-59233. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

Iron is present at a level greater than the reporting limit in the instrument blank (CCB) associated with batch 280-59233. As the associated sample amounts are ten times greater than the instrument blank concentration, corrective action is deemed unnecessary.

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 J1FJN0; therefore, control limits are not applicable.

The duplicate analysis of sample J1FJN0 exhibited RPD data outside the control limits for Mercury, and the associated sample result has been flagged "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.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

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.
	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: 280-13853-1
Sdg Number: JP0135

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: 280-13853-1
Sdg Number: JP0135

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: 280-13853-1
Sdg Number: JP0135

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13853-1	J1FJM2	Solid	03/23/2011 0750	03/24/2011 1000
280-13853-2	J1FJM3	Solid	03/23/2011 0755	03/24/2011 1000
280-13853-3	J1FJM4	Solid	03/23/2011 0800	03/24/2011 1000
280-13853-4	J1FJM5	Solid	03/23/2011 0805	03/24/2011 1000
280-13853-5	J1FJM6	Solid	03/23/2011 0820	03/24/2011 1000
280-13853-6	J1FJM7	Solid	03/23/2011 0825	03/24/2011 1000
280-13853-7	J1FJM8	Solid	03/23/2011 0830	03/24/2011 1000
280-13853-8	J1FJM9	Solid	03/23/2011 0835	03/24/2011 1000
280-13853-9	J1FJN0	Solid	03/23/2011 0850	03/24/2011 1000
280-13853-10	J1FJN1	Solid	03/23/2011 0855	03/24/2011 1000
280-13853-11	J1FJN2	Solid	03/23/2011 0900	03/24/2011 1000
280-13853-12	J1FJN3	Solid	03/23/2011 0905	03/24/2011 1000

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM2**

Lab Sample ID: 280-13853-1
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 03/23/2011 0750
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/28/2011 1422			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5240	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		1.7		0.65	0.98
Barium		56.2	X	0.075	0.49
Beryllium		0.032	U	0.032	0.20
Boron		0.96	U	0.96	2.0
Cadmium		0.048	B	0.040	0.20
Calcium		5840	X	13.8	49.1
Chromium		6.7	X	0.057	0.20
Cobalt		6.8	X	0.098	0.98
Copper		14.2		0.21	0.98
Iron		19200	X	3.7	4.9
Lead		3.0		0.27	0.49
Magnesium		4630	X	3.6	19.6
Manganese		299	X	0.098	0.98
Molybdenum		0.32	B	0.26	2.0
Nickel		12.5	X	0.12	3.9
Potassium		993		40.2	295
Selenium		0.84	U	0.84	0.98
Silicon		346	X	5.6	9.8
Silver		0.16	U	0.16	0.20
Sodium		256		57.9	118
Vanadium		53.5	X	0.092	2.0
Zinc		39.8	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1103			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

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

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM3**

Lab Sample ID: 280-13853-2
Client Matrix: Solid
% Moisture: 8.1

Date Sampled: 03/23/2011 0755
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	03/28/2011 1425			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5110	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		1.3		0.66	1.0
Barium		53.4	X	0.077	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.99	U	0.99	2.0
Cadmium		0.048	B	0.041	0.20
Calcium		5260	X	14.2	50.4
Chromium		6.5	X	0.058	0.20
Cobalt		6.4	X	0.10	1.0
Copper		13.2		0.22	1.0
Iron		18100	X	3.8	5.0
Lead		2.9		0.27	0.50
Magnesium		3910	X	3.7	20.1
Manganese		277	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		8.5	X	0.12	4.0
Potassium		800		41.3	302
Selenium		0.87	U	0.87	1.0
Silicon		274	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		230		59.4	121
Vanadium		51.5	X	0.095	2.0
Zinc		36.7	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/30/2011 1105			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0059	U	0.0059	0.018

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM4**

Lab Sample ID: 280-13853-3
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/23/2011 0800
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	03/28/2011 1427			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4600	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		1.5		0.64	0.97
Barium		36.3	X	0.073	0.48
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		5300	X	13.6	48.3
Chromium		4.6	X	0.056	0.19
Cobalt		7.5	X	0.097	0.97
Copper		12.9		0.21	0.97
Iron		21000	X	3.7	4.8
Lead		2.5		0.26	0.48
Magnesium		4650	X	3.6	19.3
Manganese		287	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		11.3	X	0.12	3.9
Potassium		746		39.6	290
Selenium		0.83	U	0.83	0.97
Silicon		264	X	5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		304		57.0	116
Vanadium		60.5	X	0.091	1.9
Zinc		40.3	X	0.38	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1107			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: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM5**

Lab Sample ID: 280-13853-4
Client Matrix: Solid

% Moisture: 5.5

Date Sampled: 03/23/2011 0805
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/28/2011 1429			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6770	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		2.4		0.67	1.0
Barium		67.2	X	0.077	0.50
Beryllium		0.033	U	0.033	0.20
Boron		1.1	B	0.99	2.0
Cadmium		0.069	B	0.041	0.20
Calcium		6780	X	14.2	50.4
Chromium		8.5	X	0.058	0.20
Cobalt		7.1	X	0.10	1.0
Copper		15.5		0.22	1.0
Iron		19600	X	3.8	5.0
Lead		4.2		0.27	0.50
Magnesium		4960	X	3.7	20.2
Manganese		319	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.2	X	0.12	4.0
Potassium		1230		41.3	302
Selenium		0.87	U	0.87	1.0
Silicon		417	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		228		59.5	121
Vanadium		50.4	X	0.095	2.0
Zinc		41.7	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/30/2011 1114			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0065	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM6**

Lab Sample ID: 280-13853-5
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/23/2011 0820
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	03/28/2011 1432			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4740	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		1.2		0.59	0.90
Barium		42.9	X	0.068	0.45
Beryllium		0.030	U	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.049	B	0.037	0.18
Calcium		5340	X	12.7	45.0
Chromium		5.8	X	0.052	0.18
Cobalt		7.2	X	0.090	0.90
Copper		13.6		0.20	0.90
Iron		20600	X	3.4	4.5
Lead		2.7		0.24	0.45
Magnesium		4460	X	3.3	18.0
Manganese		293	X	0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		9.6	X	0.11	3.6
Potassium		627		36.9	270
Selenium		0.77	U	0.77	0.90
Silicon		230	X	5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		295		53.1	108
Vanadium		56.0	X	0.085	1.8
Zinc		40.8	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/30/2011 1117			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	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM7**

Lab Sample ID: 280-13853-6
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/23/2011 0825
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	03/28/2011 1434			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6560	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		2.1		0.68	1.0
Barium		74.1	X	0.078	0.51
Beryllium		0.034	U	0.034	0.20
Boron		1.0	B	1.0	2.0
Cadmium		0.069	B	0.042	0.20
Calcium		6790	X	14.5	51.2
Chromium		8.2	X	0.059	0.20
Cobalt		7.4	X	0.10	1.0
Copper		17.8		0.22	1.0
Iron		20400	X	3.9	5.1
Lead		4.1		0.28	0.51
Magnesium		4510	X	3.8	20.5
Manganese		334	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.0
Nickel		10.1	X	0.13	4.1
Potassium		1210		42.0	307
Selenium		0.88	U	0.88	1.0
Silicon		436	X	5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		236		60.5	123
Vanadium		51.6	X	0.096	2.0
Zinc		41.3	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/30/2011 1119			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	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM8**

Lab Sample ID: 280-13853-7
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/23/2011 0830
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	03/28/2011 1437			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3940	X	1.4	4.4
Antimony		0.33	U	0.33	0.52
Arsenic		1.1		0.58	0.87
Barium		45.3	X	0.066	0.44
Beryllium		0.029	U	0.029	0.17
Boron		0.86	U	0.86	1.7
Cadmium		0.041	B	0.036	0.17
Calcium		4800	X	12.3	43.7
Chromium		4.0	X	0.051	0.17
Cobalt		7.3	X	0.087	0.87
Copper		12.6		0.19	0.87
Iron		20000	X	3.3	4.4
Lead		2.5		0.24	0.44
Magnesium		4050	X	3.2	17.5
Manganese		263	X	0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		7.4	X	0.11	3.5
Potassium		615		35.8	262
Selenium		0.75	U	0.75	0.87
Silicon		179	X	4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		279		51.6	105
Vanadium		54.2	X	0.082	1.7
Zinc		38.6	X	0.35	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1121			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: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJM9**

Lab Sample ID: 280-13853-8
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/23/2011 0835
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	03/28/2011 1448			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4910	X	1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		1.2		0.61	0.92
Barium		51.8	X	0.070	0.46
Beryllium		0.030	U	0.030	0.18
Boron		0.90	U	0.90	1.8
Cadmium		0.058	B	0.038	0.18
Calcium		5380	X	12.9	45.9
Chromium		6.9	X	0.053	0.18
Cobalt		7.4	X	0.092	0.92
Copper		20.4		0.20	0.92
Iron		21800	X	3.5	4.6
Lead		2.9		0.25	0.46
Magnesium		4450	X	3.4	18.3
Manganese		296	X	0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		10.2	X	0.11	3.7
Potassium		742		37.6	275
Selenium		0.79	U	0.79	0.92
Silicon		193	X	5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		282		54.1	110
Vanadium		58.4	X	0.086	1.8
Zinc		42.3	X	0.36	0.92

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1123			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: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJN0**

Lab Sample ID: 280-13853-9
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 03/23/2011 0850
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	03/28/2011 1451			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7390	X	1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		2.1		0.65	0.99
Barium		82.6	X	0.075	0.49
Beryllium		0.033	U	0.033	0.20
Boron		1.2	B	0.97	2.0
Cadmium		0.10	B	0.040	0.20
Calcium		5230	X	13.9	49.4
Chromium		9.3	X	0.057	0.20
Cobalt		7.0	X	0.099	0.99
Copper		14.1		0.21	0.99
Iron		19300	X	3.8	4.9
Lead		4.7		0.27	0.49
Magnesium		4420	X	3.7	19.8
Manganese		346	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		10.5	X	0.12	4.0
Potassium		1580		40.5	296
Selenium		0.85	U	0.85	0.99
Silicon		332	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		180		58.3	119
Vanadium		47.9	X	0.093	2.0
Zinc		42.5	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	03/30/2011 1126			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0078	B M	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJN1**

Lab Sample ID: 280-13853-10
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/23/2011 0855
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	03/28/2011 1500			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4720	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		1.3		0.67	1.0
Barium		58.2	X	0.077	0.51
Beryllium		0.034	U	0.034	0.20
Boron		1.0	U	1.0	2.0
Cadmium		0.052	B	0.042	0.20
Calcium		5090	X	14.3	50.8
Chromium		4.8	X	0.059	0.20
Cobalt		7.9	X	0.10	1.0
Copper		14.6		0.22	1.0
Iron		21600	X	3.9	5.1
Lead		2.8		0.27	0.51
Magnesium		4790	X	3.8	20.3
Manganese		307	X	0.10	1.0
Molybdenum		0.32	B	0.26	2.0
Nickel		10.2	X	0.13	4.1
Potassium		744		41.7	305
Selenium		0.87	U	0.87	1.0
Silicon		253	X	5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		273		60.0	122
Vanadium		55.6	X	0.096	2.0
Zinc		41.7	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/30/2011 1133			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0056	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJN2**

Lab Sample ID: 280-13853-11
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/23/2011 0900
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/28/2011 1502			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4580	X	1.5	5.0
Antimony		0.38	U	0.38	0.59
Arsenic		1.1		0.65	0.99
Barium		58.1	X	0.075	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.041	U	0.041	0.20
Calcium		5100	X	14.0	49.6
Chromium		4.7	X	0.058	0.20
Cobalt		7.7	X	0.099	0.99
Copper		13.8		0.22	0.99
Iron		21400	X	3.8	5.0
Lead		2.9		0.27	0.50
Magnesium		4320	X	3.7	19.8
Manganese		304	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		7.7	X	0.12	4.0
Potassium		762		40.7	297
Selenium		0.85	U	0.85	0.99
Silicon		282	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		308		58.5	119
Vanadium		57.2	X	0.093	2.0
Zinc		41.4	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/30/2011 1135			Final Weight/Volume:	50 mL
Prep Date:	03/30/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0070	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Client Sample ID: **J1FJN3**

Lab Sample ID: 280-13853-12
Client Matrix: Solid

% Moisture: 4.0

Date Sampled: 03/23/2011 0905
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:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	03/28/2011 1505			Final Weight/Volume:	100 mL
Prep Date:	03/25/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4330	X	1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		1.2		0.63	0.95
Barium		55.2	X	0.072	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.93	U	0.93	1.9
Cadmium		0.052	B	0.039	0.19
Calcium		6180	X	13.4	47.4
Chromium		4.7	X	0.055	0.19
Cobalt		7.0	X	0.095	0.95
Copper		12.5		0.21	0.95
Iron		19600	X	3.6	4.7
Lead		2.7		0.26	0.47
Magnesium		4150	X	3.5	18.9
Manganese		282	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		8.1	X	0.12	3.8
Potassium		673		38.8	284
Selenium		0.81	U	0.81	0.95
Silicon		339	X	5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		249		55.9	114
Vanadium		52.1	X	0.089	1.9
Zinc		37.7	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/30/2011 1142			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: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM2**

Lab Sample ID: 280-13853-1
Client Matrix: Solid

Date Sampled: 03/23/2011 0750
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM3**

Lab Sample ID: 280-13853-2
Client Matrix: Solid

Date Sampled: 03/23/2011 0755
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM4**

Lab Sample ID: 280-13853-3
Client Matrix: Solid

Date Sampled: 03/23/2011 0800
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM5**

Lab Sample ID: 280-13853-4
Client Matrix: Solid

Date Sampled: 03/23/2011 0805
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM6**

Lab Sample ID: 280-13853-5
Client Matrix: Solid

Date Sampled: 03/23/2011 0820
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM7**

Lab Sample ID: 280-13853-6
Client Matrix: Solid

Date Sampled: 03/23/2011 0825
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM8**

Lab Sample ID: 280-13853-7
Client Matrix: Solid

Date Sampled: 03/23/2011 0830
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: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJM9**

Lab Sample ID: 280-13853-8
Client Matrix: Solid

Date Sampled: 03/23/2011 0835
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: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJN0**

Lab Sample ID: 280-13853-9
Client Matrix: Solid

Date Sampled: 03/23/2011 0850
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJN1**

Lab Sample ID: 280-13853-10
Client Matrix: Solid

Date Sampled: 03/23/2011 0855
Date Received: 03/24/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

General Chemistry

Client Sample ID: **J1FJN2**

Lab Sample ID: 280-13853-11
Client Matrix: Solid

Date Sampled: 03/23/2011 0900
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: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJN3**

Lab Sample ID: 280-13853-12
Client Matrix: Solid

Date Sampled: 03/23/2011 0905
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: 280-59204 Analysis Date: 03/24/2011 1402 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-59223					
LCS 280-59223/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-59223/1-A	Method Blank	T	Solid	7471A	
280-13853-1	J1FJM2	T	Solid	7471A	
280-13853-2	J1FJM3	T	Solid	7471A	
280-13853-3	J1FJM4	T	Solid	7471A	
280-13853-4	J1FJM5	T	Solid	7471A	
280-13853-5	J1FJM6	T	Solid	7471A	
280-13853-6	J1FJM7	T	Solid	7471A	
280-13853-7	J1FJM8	T	Solid	7471A	
280-13853-8	J1FJM9	T	Solid	7471A	
280-13853-9	J1FJN0	T	Solid	7471A	
280-13853-9DU	Duplicate	T	Solid	7471A	
280-13853-9MS	Matrix Spike	T	Solid	7471A	
280-13853-10	J1FJN1	T	Solid	7471A	
280-13853-11	J1FJN2	T	Solid	7471A	
280-13853-12	J1FJN3	T	Solid	7471A	
Prep Batch: 280-59233					
LCS 280-59233/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-59233/1-A	Method Blank	T	Solid	3050B	
280-13853-1	J1FJM2	T	Solid	3050B	
280-13853-2	J1FJM3	T	Solid	3050B	
280-13853-3	J1FJM4	T	Solid	3050B	
280-13853-4	J1FJM5	T	Solid	3050B	
280-13853-5	J1FJM6	T	Solid	3050B	
280-13853-6	J1FJM7	T	Solid	3050B	
280-13853-7	J1FJM8	T	Solid	3050B	
280-13853-8	J1FJM9	T	Solid	3050B	
280-13853-9	J1FJN0	T	Solid	3050B	
280-13853-9DU	Duplicate	T	Solid	3050B	
280-13853-9MS	Matrix Spike	T	Solid	3050B	
280-13853-10	J1FJN1	T	Solid	3050B	
280-13853-11	J1FJN2	T	Solid	3050B	
280-13853-12	J1FJN3	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-59747					
LCS 280-59233/2-A	Lab Control Sample	T	Solid	6010B	280-59233
MB 280-59233/1-A	Method Blank	T	Solid	6010B	280-59233
280-13853-1	J1FJM2	T	Solid	6010B	280-59233
280-13853-2	J1FJM3	T	Solid	6010B	280-59233
280-13853-3	J1FJM4	T	Solid	6010B	280-59233
280-13853-4	J1FJM5	T	Solid	6010B	280-59233
280-13853-5	J1FJM6	T	Solid	6010B	280-59233
280-13853-6	J1FJM7	T	Solid	6010B	280-59233
280-13853-7	J1FJM8	T	Solid	6010B	280-59233
280-13853-8	J1FJM9	T	Solid	6010B	280-59233
280-13853-9	J1FJN0	T	Solid	6010B	280-59233
280-13853-9DU	Duplicate	T	Solid	6010B	280-59233
280-13853-9MS	Matrix Spike	T	Solid	6010B	280-59233
280-13853-10	J1FJN1	T	Solid	6010B	280-59233
280-13853-11	J1FJN2	T	Solid	6010B	280-59233
280-13853-12	J1FJN3	T	Solid	6010B	280-59233
Analysis Batch:280-60074					
LCS 280-59223/2-A	Lab Control Sample	T	Solid	7471A	280-59223
MB 280-59223/1-A	Method Blank	T	Solid	7471A	280-59223
280-13853-1	J1FJM2	T	Solid	7471A	280-59223
280-13853-2	J1FJM3	T	Solid	7471A	280-59223
280-13853-3	J1FJM4	T	Solid	7471A	280-59223
280-13853-4	J1FJM5	T	Solid	7471A	280-59223
280-13853-5	J1FJM6	T	Solid	7471A	280-59223
280-13853-6	J1FJM7	T	Solid	7471A	280-59223
280-13853-7	J1FJM8	T	Solid	7471A	280-59223
280-13853-8	J1FJM9	T	Solid	7471A	280-59223
280-13853-9	J1FJN0	T	Solid	7471A	280-59223
280-13853-9DU	Duplicate	T	Solid	7471A	280-59223
280-13853-9MS	Matrix Spike	T	Solid	7471A	280-59223
280-13853-10	J1FJN1	T	Solid	7471A	280-59223
280-13853-11	J1FJN2	T	Solid	7471A	280-59223
280-13853-12	J1FJN3	T	Solid	7471A	280-59223

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-59204					
280-13853-1	J1FJM2	T	Solid	D-2216	
280-13853-1DU	Duplicate	T	Solid	D-2216	
280-13853-2	J1FJM3	T	Solid	D-2216	
280-13853-3	J1FJM4	T	Solid	D-2216	
280-13853-4	J1FJM5	T	Solid	D-2216	
280-13853-5	J1FJM6	T	Solid	D-2216	
280-13853-6	J1FJM7	T	Solid	D-2216	
280-13853-7	J1FJM8	T	Solid	D-2216	
280-13853-8	J1FJM9	T	Solid	D-2216	
280-13853-9	J1FJN0	T	Solid	D-2216	
280-13853-10	J1FJN1	T	Solid	D-2216	
280-13853-11	J1FJN2	T	Solid	D-2216	
280-13853-12	J1FJN3	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Method Blank - Batch: 280-59233

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-59233/1-A	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/28/2011 1418	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	0.0960	B	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: 280-13853-1
Sdg Number: JP0135

Lab Control Sample - Batch: 280-59233

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-59233/2-A	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/28/2011 1420	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	183.2	92	82 - 116	
Antimony	50.0	47.67	95	82 - 110	
Arsenic	100	95.80	96	85 - 110	
Barium	200	195.0	98	87 - 112	
Beryllium	5.00	4.86	97	84 - 114	
Boron	100	90.02	90	81 - 110	
Cadmium	10.0	8.94	89	87 - 110	
Calcium	5000	4812	96	82 - 114	
Chromium	20.0	18.67	93	84 - 114	
Cobalt	50.0	45.93	92	87 - 110	
Copper	25.0	25.01	100	88 - 110	
Iron	100	101.6	102	87 - 120	
Lead	50.0	47.74	95	86 - 110	
Magnesium	5000	4854	97	90 - 110	
Manganese	50.0	49.08	98	88 - 110	
Molybdenum	100	98.16	98	86 - 110	
Nickel	50.0	47.52	95	87 - 110	
Potassium	5000	4966	99	89 - 110	
Selenium	200	187.3	94	83 - 110	
Silicon	1000	186.3	19	10 - 70	
Silver	5.00	4.82	96	87 - 114	
Sodium	5000	4995	100	90 - 112	
Vanadium	50.0	49.46	99	88 - 110	
Zinc	50.0	49.03	98	76 - 114	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Matrix Spike - Batch: 280-59233

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13853-9	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.13 g
Analysis Date:	03/28/2011 1458	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	7390		189	9524	1128	50 - 200	4
Antimony	0.38	U	47.2	25.04	53	20 - 200	
Arsenic	2.1		94.4	83.56	86	76 - 111	
Barium	82.6		189	251.3	89	52 - 159	
Beryllium	0.033	U	4.72	4.04	86	72 - 105	
Boron	1.2	B	94.4	75.46	79	75 - 107	
Cadmium	0.10	B	9.44	7.72	81	40 - 130	
Calcium	5230		4720	10290	107	43 - 165	
Chromium	9.3		18.9	27.26	95	70 - 200	
Cobalt	7.0		47.2	45.34	81	72 - 106	
Copper	14.1		23.6	35.33	90	37 - 187	
Iron	19300		94.4	20040	774	70 - 200	4
Lead	4.7		47.2	44.06	83	70 - 200	
Magnesium	4420		4720	8899	95	64 - 145	
Manganese	346		47.2	386.5	85	40 - 200	4
Molybdenum	0.26	U	94.4	80.67	85	75 - 103	
Nickel	10.5		47.2	50.28	84	61 - 126	
Potassium	1580		4720	6003	94	56 - 172	
Selenium	0.85	U	189	156.3	83	76 - 104	
Silicon	332		944	572.0	25	20 - 200	
Silver	0.16	U	4.72	4.21	89	75 - 141	
Sodium	180		4720	4805	98	78 - 111	
Vanadium	47.9		47.2	93.91	98	50 - 169	
Zinc	42.5		47.2	82.93	86	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Duplicate - Batch: 280-59233

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13853-9	Analysis Batch:	280-59747	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-59233	Lab File ID:	26a032811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	03/28/2011 1455	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	7390		7769	5	40	
Antimony	0.38	U	0.41	NC	40	U
Arsenic	2.1		2.12	0.7	30	
Barium	82.6		84.49	2	30	
Beryllium	0.033	U	0.035	NC	30	U
Boron	1.2	B	1.37	13	30	B
Cadmium	0.10	B	0.107	3	30	B
Calcium	5230		5150	1	30	
Chromium	9.3		9.47	2	40	
Cobalt	7.0		7.37	5	30	
Copper	14.1		14.58	4	30	
Iron	19300		20150	4	40	
Lead	4.7		4.58	3	40	
Magnesium	4420		4621	4	30	
Manganese	346		348.9	0.8	40	
Molybdenum	0.26	U	0.28	NC	30	U
Nickel	10.5		10.59	0.8	30	
Potassium	1580		1635	4	40	
Selenium	0.85	U	0.92	NC	30	U
Silicon	332		462.7	33	40	
Silver	0.16	U	0.17	NC	30	U
Sodium	180		209.2	15	30	
Vanadium	47.9		50.12	5	30	
Zinc	42.5		43.20	2	40	

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Method Blank - Batch: 280-59223

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-59223/1-A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/30/2011 1058	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: 280-59223

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-59223/2-A	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/30/2011 1100	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	0.401	96	87 - 111	

Matrix Spike - Batch: 280-59223

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13853-9	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	03/30/2011 1130	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	0.0078	B	0.430	0.418	95	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Duplicate - Batch: 280-59223

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13853-9	Analysis Batch:	280-60074	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59223	Lab File ID:	110330AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	03/30/2011 1128	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	0.0078	B	0.0111	35	20	B M

Client: Washington Closure Hanford

Job Number: 280-13853-1
Sdg Number: JP0135

Duplicate - Batch: 280-59204

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13853-1	Analysis Batch:	280-59204	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 1402	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	3.0	2.9	3	20	

1.2C 3/24/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-210	Page 1 of 3

Collector: Blankingship	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 1	SAF No.: RC-074	3/10/11 — 3/10/11
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-0910 JRD 3/23/11 — COA: R118D22000	Method of Shipment: FED EX	
Shipped To: TestAmerica Incorporated, ~~Richland~~ DENVER 3/10/11	Offsite Property No.: N/A	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
J1FJM2	SOIL	3/23/11	0750	✓								27385
J1FJM3	SOIL	3/23/11	0755	✓								
J1FJM4	SOIL	3/23/11	0800	✓								
J1FJM5	SOIL	3/23/11	0805	✓								
J1FJM6	SOIL	3/23/11	0820	✓								

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: MATRIX [illegible]	3-23-11 0910	Received By/Stored In: TR DeBuigne [illegible]	0910 3/23/11
Relinquished By/Removed From: TR DeBuigne [illegible]	3/23/11 1040	Received By/Stored In: J.E. Barb	1040 3-23-11
Relinquished By/Removed From: J.E. Barb WCH	3-23-11 1415	Received By/Stored In: Fed Ex.	
Relinquished By/Removed From		Received By/Stored In: [illegible]	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 AT DATE 3-23-11

JP0135

Matrix *: S=Soil, SE=Sediment, SO=Solid, Sl=Sledge, 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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-210	Page 2 of 3

Collector: Blankingship	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 1		SAF No.: RC-074
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-~~09~~10 3/23/11	COA: R118D22000	Method of Shipment: FED EX
Shipped To: TestAmerica Incorporated, ~~Richland~~ DENVER	Offsite Property No.: N/A		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								
J1FJM7	SOIL	3/23/11	0825	✓							
J1FJM8	SOIL	3/23/11	0830	✓							
J1FJM9	SOIL	3/23/11	0835	✓							
J1FJN0	SOIL	3/23/11	0850	✓							
J1FJN1	SOIL	3/23/11	0855	✓							

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: [signature]	5-23-11 0910	Received By/Stored In: [signature]	0910 3/23/11
Relinquished By/Removed From: [signature]	1040 3/23/11	Received By/Stored In: J.E. Bahl	1040 3-23-11
Relinquished By/Removed From: J.E. Bahl WCH	1415 3-23-11	Received By/Stored In: FED EXA	
Relinquished By/Removed From		Received By/Stored In: [signature]	3/24/11 1100
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}

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

REVIEWED BY AJ
DATE 3-23-11

JP0135

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-210	Page 3 of 3

Collector: Blankingship	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 1		SAF No.: RC-074
Ice Chest No.: WCH-08-042	Field Logbook No.: EL-1607-0910	COA: R118D22000	Method of Shipment: FED Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ DENVER	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: 7995 6703 1652

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								
J1FJN2	SOIL	3/23/11	0900	✓							
J1FJN3	SOIL	3/23/11	0905	✓							

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time 3-23-11 0910	Received By/Stored In	Date/Time 0910 3/23/11
Relinquished By/Removed From	Date/Time 1040 3/23/11	Received By/Stored In	Date/Time 1040 3-23-11
Relinquished By/Removed From WCH	Date/Time 1450 3-23-11	Received By/Stored In FED EX	Date/Time
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

JP0135

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
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 -Solid -Solid

Analytical Due:

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

Sample Check-in List

Date/Time Received: 3/24/11 1000 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: JP0135 NA[ ] SAF #: RC-074 NA [ ]

Job Number: 13853 Chain of Custody # RC-074-210

Shipping Container ID: WCH-08-042 Air Bill # 794567031657

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: 1.2 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: 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 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
Act/Wgt: 82.0 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

1 of 2

THU - 24 MAR A1
PRIORITY OVERNIGHT

TRK# 7945 6703 1657
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EF8

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