0095283

SAF-RC-110
100-H Burial Grounds Remaining Sites – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

RECEIVED
APR 06 2011
EDMC

No Distribution Required

COMMENTS:

SDG JP0118 SAF-RC-110

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 132-H-3

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
MAR 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 119 ***Pages***

Report No.: 46023

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.
JP0118	RC-110	J1FJK1	J1C100626-1	MFH641AC	9MFH6410	1070185
		J1FJK1	J1C100626-1	MFH641AF	9MFH6410	1070186
		J1FJK1	J1C100626-1	MFH641AD	9MFH6410	1070188
		J1FJK1	J1C100626-1	MFH641AH	9MFH6410	1070190
		J1FJK1	J1C100626-1	MFH641AG	9MFH6410	1070192
		J1FJK1	J1C100626-1	MFH641AE	9MFH6410	1070195
		J1FJK1	J1C100626-1	MFH641AA	9MFH6410	1075395
		J1FJK2	J1C100626-2	MFH7X1AC	9MFH7X10	1070185
		J1FJK2	J1C100626-2	MFH7X1AF	9MFH7X10	1070186
		J1FJK2	J1C100626-2	MFH7X1AD	9MFH7X10	1070188
		J1FJK2	J1C100626-2	MFH7X1AH	9MFH7X10	1070190
		J1FJK2	J1C100626-2	MFH7X1AG	9MFH7X10	1070192
		J1FJK2	J1C100626-2	MFH7X1AE	9MFH7X10	1070195
		J1FJK2	J1C100626-2	MFH7X1AA	9MFH7X10	1075395
		J1FJK3	J1C100626-3	MFH721AC	9MFH7210	1070185
		J1FJK3	J1C100626-3	MFH721AF	9MFH7210	1070186
		J1FJK3	J1C100626-3	MFH721AD	9MFH7210	1070188
		J1FJK3	J1C100626-3	MFH721AH	9MFH7210	1070190
		J1FJK3	J1C100626-3	MFH721AG	9MFH7210	1070192
		J1FJK3	J1C100626-3	MFH721AE	9MFH7210	1070195
		J1FJK3	J1C100626-3	MFH721AA	9MFH7210	1075395
		J1FJK4	J1C100626-4	MFH731AC	9MFH7310	1070185
		J1FJK4	J1C100626-4	MFH731AF	9MFH7310	1070186
		J1FJK4	J1C100626-4	MFH731AD	9MFH7310	1070188
		J1FJK4	J1C100626-4	MFH731AH	9MFH7310	1070190
		J1FJK4	J1C100626-4	MFH731AG	9MFH7310	1070192

Report No.: 46023

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.
JP0118	RC-110	J1FJK4	J1C100626-4	MFH731AE	9MFH7310	1070195
		J1FJK4	J1C100626-4	MFH731AA	9MFH7310	1075395
		J1FJK5	J1C100626-5	MFH751AC	9MFH7510	1070185
		J1FJK5	J1C100626-5	MFH751AF	9MFH7510	1070186
		J1FJK5	J1C100626-5	MFH751AD	9MFH7510	1070188
		J1FJK5	J1C100626-5	MFH751AH	9MFH7510	1070190
		J1FJK5	J1C100626-5	MFH751AG	9MFH7510	1070192
		J1FJK5	J1C100626-5	MFH751AE	9MFH7510	1070195
		J1FJK5	J1C100626-5	MFH751AA	9MFH7510	1075395
		J1FJK6	J1C100626-6	MFH9G1AC	9MFH9G10	1070185
		J1FJK6	J1C100626-6	MFH9G1AF	9MFH9G10	1070186
		J1FJK6	J1C100626-6	MFH9G1AD	9MFH9G10	1070188
		J1FJK6	J1C100626-6	MFH9G1AH	9MFH9G10	1070190
		J1FJK6	J1C100626-6	MFH9G1AG	9MFH9G10	1070192
		J1FJK6	J1C100626-6	MFH9G1AE	9MFH9G10	1070195
		J1FJK6	J1C100626-6	MFH9G1AA	9MFH9G10	1075395
		J1FJK7	J1C100626-7	MFH9H1AC	9MFH9H10	1070185
		J1FJK7	J1C100626-7	MFH9H1AF	9MFH9H10	1070186
		J1FJK7	J1C100626-7	MFH9H1AD	9MFH9H10	1070188
		J1FJK7	J1C100626-7	MFH9H1AH	9MFH9H10	1070190
		J1FJK7	J1C100626-7	MFH9H1AG	9MFH9H10	1070192
		J1FJK7	J1C100626-7	MFH9H1AE	9MFH9H10	1070195
		J1FJK7	J1C100626-7	MFH9H1AA	9MFH9H10	1075395
		J1FJK8	J1C100626-8	MFH9J1AC	9MFH9J10	1070185
		J1FJK8	J1C100626-8	MFH9J1AF	9MFH9J10	1070186
		J1FJK8	J1C100626-8	MFH9J1AD	9MFH9J10	1070188
		J1FJK8	J1C100626-8	MFH9J1AH	9MFH9J10	1070190
		J1FJK8	J1C100626-8	MFH9J1AG	9MFH9J10	1070192
		J1FJK8	J1C100626-8	MFH9J1AE	9MFH9J10	1070195
		J1FJK8	J1C100626-8	MFH9J1AA	9MFH9J10	1075395
		J1FJK9	J1C100626-9	MFH9K1AC	9MFH9K10	1070185
		J1FJK9	J1C100626-9	MFH9K1AF	9MFH9K10	1070186
		J1FJK9	J1C100626-9	MFH9K1AD	9MFH9K10	1070188
		J1FJK9	J1C100626-9	MFH9K1AH	9MFH9K10	1070190
		J1FJK9	J1C100626-9	MFH9K1AG	9MFH9K10	1070192
		J1FJK9	J1C100626-9	MFH9K1AE	9MFH9K10	1070195
		J1FJK9	J1C100626-9	MFH9K1AA	9MFH9K10	1075395
		J1FJL0	J1C100626-10	MFH9L1AC	9MFH9L10	1070185

Report No.: 46023

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.
JP0118		J1FJL0	J1C100626-10	MFH9L1AF	9MFH9L10	1070186
		J1FJL0	J1C100626-10	MFH9L1AD	9MFH9L10	1070188
		J1FJL0	J1C100626-10	MFH9L1AH	9MFH9L10	1070190
		J1FJL0	J1C100626-10	MFH9L1AG	9MFH9L10	1070192
		J1FJL0	J1C100626-10	MFH9L1AE	9MFH9L10	1070195
		J1FJL0	J1C100626-10	MFH9L1AA	9MFH9L10	1075395
	RC-110	J1FJL1	J1C100626-11	MFH9N1AC	9MFH9N10	1070185
		J1FJL1	J1C100626-11	MFH9N1AF	9MFH9N10	1070186
		J1FJL1	J1C100626-11	MFH9N1AD	9MFH9N10	1070188
		J1FJL1	J1C100626-11	MFH9N1AH	9MFH9N10	1070190
		J1FJL1	J1C100626-11	MFH9N1AG	9MFH9N10	1070192
		J1FJL1	J1C100626-11	MFH9N1AE	9MFH9N10	1070195
		J1FJL1	J1C100626-11	MFH9NAA	9MFH9N10	1075395
		J1FJL2	J1C100626-12	MFH9R1AC	9MFH9R10	1070185
		J1FJL2	J1C100626-12	MFH9R1AF	9MFH9R10	1070186
		J1FJL2	J1C100626-12	MFH9R1AD	9MFH9R10	1070188
		J1FJL2	J1C100626-12	MFH9R1AH	9MFH9R10	1070190
		J1FJL2	J1C100626-12	MFH9R1AG	9MFH9R10	1070192
		J1FJL2	J1C100626-12	MFH9R1AE	9MFH9R10	1070195
		J1FJL2	J1C100626-12	MFH9R1AA	9MFH9R10	1075395
		J1FJL3	J1C100626-13	MFH9T1AC	9MFH9T10	1070185
		J1FJL3	J1C100626-13	MFH9T1AF	9MFH9T10	1070186
		J1FJL3	J1C100626-13	MFH9T1AD	9MFH9T10	1070188
		J1FJL3	J1C100626-13	MFH9T1AH	9MFH9T10	1070190
		J1FJL3	J1C100626-13	MFH9T1AG	9MFH9T10	1070192
		J1FJL3	J1C100626-13	MFH9T1AE	9MFH9T10	1070195
		J1FJL3	J1C100626-13	MFH9T1AA	9MFH9T10	1075395
		J1FJL4	J1C100626-14	MFH9V1AC	9MFH9V10	1070185
		J1FJL4	J1C100626-14	MFH9V1AF	9MFH9V10	1070186
		J1FJL4	J1C100626-14	MFH9V1AD	9MFH9V10	1070188
		J1FJL4	J1C100626-14	MFH9V1AH	9MFH9V10	1070190
		J1FJL4	J1C100626-14	MFH9V1AG	9MFH9V10	1070192
		J1FJL4	J1C100626-14	MFH9V1AE	9MFH9V10	1070195
		J1FJL4	J1C100626-14	MFH9V1AA	9MFH9V10	1075395
		J1FJL5	J1C100626-15	MFH9W1AC	9MFH9W10	1070185
		J1FJL5	J1C100626-15	MFH9W1AF	9MFH9W10	1070186
		J1FJL5	J1C100626-15	MFH9W1AD	9MFH9W10	1070188
		J1FJL5	J1C100626-15	MFH9W1AH	9MFH9W10	1070190

Report No.: 46023

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.
JP0118	RC-110	J1FJL5	J1C100626-15	MFH9W1AG	9MFH9W10	1070192
		J1FJL5	J1C100626-15	MFH9W1AE	9MFH9W10	1070195
		J1FJL5	J1C100626-15	MFH9W1AA	9MFH9W10	1075395

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

March 29, 2011

Attention: Joan Kessner

SAF Number	:	RC-110
Date SDG Closed	:	March 10, 2011
Number of Samples	:	Fifteen (15)
Sample Type	:	Soil
SDG Number	:	JP0118
Data Deliverable	:	7– Day / Summary

CASE NARRATIVE

I. Introduction

On March 10, 2011 fifteen 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
J1FJK1	MFH64	SOIL	3/10/11
J1FJK2	MFH7X	SOIL	3/10/11
J1FJK3	MFH72	SOIL	3/10/11
J1FJK4	MFH73	SOIL	3/10/11
J1FJK5	MFH75	SOIL	3/10/11
J1FJK6	MFH9G	SOIL	3/10/11
J1FJK7	MFH9H	SOIL	3/10/11
J1FJK8	MFH9J	SOIL	3/10/11
J1FJK9	MFH9K	SOIL	3/10/11
J1FJL0	MFH9L	SOIL	3/10/11
J1FJL1	MFH9N	SOIL	3/10/11
J1FJL2	MFH9R	SOIL	3/10/11
J1FJL3	MFH9T	SOIL	3/10/11
J1FJL4	MFH9V	SOIL	3/10/11
J1FJL5	MFH9W	SOIL	3/10/11

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:

Gas Proportional Counting
Strontium-90 by method RL-GPC-003
Gamma Spectroscopy
Gamma Spec by method RL-GAM-001
Liquid Scintillation Counting
Technetium-99 by method RL-LSC-013
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

Gas Proportional Counting
Strontium-90 by method RL-GPC-003:
The LCS, batch blank, samples and sample duplicate (J1FJK1) results are within contractual requirements.

Gamma Spectroscopy
Gamma Spec by method RL-GAM-001:
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 (J1FJK2) results are within contractual requirements.

Liquid Scintillation Counting
Technetium-99 by method RL-LSC-013:
The LCS, batch blank, samples, sample duplicate (J1FJK4) and sample matrix spike (J1FJK4) results are within contractual requirements.

Tritium by method RL-LSC-005 :

The LCS, batch blank, samples and sample duplicate (J1FJK3) results are within contractual requirements.

Carbon-14 by method RL-LSC-008:
The LCS, batch blank, samples and sample duplicate (J1FJK3) results are within contractual requirements.

Nickel-63 by method RL-LCS-017:
The CCV was not within limits on the original count for samples J1FJL4, J1FJL5, the batch blank and LCS. They were recounted for acceptable results. Except as noted; the LCS, batch blank, samples and sample duplicate (J1FJK5) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The LCS, batch blank, samples, sample duplicate (J1FJK1) and sample matrix spike (J1FJK1) 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:

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

Date: 29-Mar-11

TestAmerica TARL

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

Report No. : 46023 **SDG No:** JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070186 GAMMA_GS									
J1FJK1									
	MFH641AF	AG-108M	-4.61E-03 +- 1.5E-02	U	pCi/g		2.46E-02		
		AMERICIUM 241	-7.92E-02 +- 7.9E-02	U	pCi/g		1.28E-01		
		CO-60	1.93E-02 +- 2.0E-02	U	pCi/g		3.63E-02	5.00E-02	
		CS-137	7.96E-03 +- 1.7E-02	U	pCi/g		3.05E-02	1.00E-01	
		EU-152	-9.62E-02 +- 5.5E-02	U	pCi/g		8.06E-02	1.00E-01	
		EU-154	-3.04E-02 +- 6.0E-02	U	pCi/g		1.01E-01	1.00E-01	
		EU-155	-3.61E-02 +- 5.6E-02	U	pCi/g		9.13E-02	1.00E-01	
J1FJK2									
	MFH7X1AF	AG-108M	1.17E-02 +- 3.8E-02	U	pCi/g		6.76E-02		
		AMERICIUM 241	-3.49E-03 +- 5.3E-02	U	pCi/g		8.91E-02		
		CO-60	1.00E-02 +- 5.3E-02	U	pCi/g		9.77E-02	5.00E-02	
		CS-137	4.82E-02 +- 5.2E-02	U	pCi/g		9.67E-02	1.00E-01	
		EU-152	6.74E-02 +- 1.3E-01	U	pCi/g		2.17E-01	1.00E-01	
		EU-154	-2.30E-02 +- 1.7E-01	U	pCi/g		3.06E-01	1.00E-01	
		EU-155	-1.61E-02 +- 8.5E-02	U	pCi/g		1.45E-01	1.00E-01	
J1FJK2 DUP									
	MFH7X1AJ	AG-108M	-1.22E-02 +- 1.8E-02	U	pCi/g		3.07E-02		-11233.1
		AMERICIUM 241	3.65E-02 +- 1.4E-01	U	pCi/g		2.35E-01		242.2
		CO-60	-1.66E-03 +- 2.8E-02	U	pCi/g		5.20E-02	5.00E-02	279.5
		CS-137	1.61E-02 +- 2.9E-02	U	pCi/g		5.30E-02	1.00E-01	99.7
		EU-152	1.20E-02 +- 5.6E-02	U	pCi/g		9.95E-02	1.00E-01	139.7
		EU-154	-1.30E-02 +- 9.6E-02	U	pCi/g		1.71E-01	1.00E-01	-55.6
		EU-155	-3.14E-02 +- 5.4E-02	U	pCi/g		8.96E-02	1.00E-01	-64.1
J1FJK3									
	MFH721AF	AG-108M	-3.91E-03 +- 1.3E-02	U	pCi/g		2.26E-02		
		AMERICIUM 241	-1.74E-03 +- 7.7E-02	U	pCi/g		1.28E-01		
		CO-60	-1.41E-03 +- 1.6E-02	U	pCi/g		2.87E-02	5.00E-02	
		CS-137	9.56E-03 +- 1.7E-02	U	pCi/g		2.97E-02	1.00E-01	
		EU-152	-1.06E-01 +- 1.1E-01	U	pCi/g		7.55E-02	1.00E-01	
		EU-154	1.41E-02 +- 5.1E-02	U	pCi/g		9.14E-02	1.00E-01	
		EU-155	-8.14E-03 +- 5.4E-02	U	pCi/g		9.03E-02	1.00E-01	
J1FJK4									
	MFH731AF	AG-108M	-3.57E-03 +- 1.3E-02	U	pCi/g		2.18E-02		
		AMERICIUM 241	-2.07E-02 +- 7.7E-02	U	pCi/g		1.26E-01		
		CO-60	5.45E-03 +- 1.7E-02	U	pCi/g		3.01E-02	5.00E-02	
		CS-137	1.36E-02 +- 1.6E-02	U	pCi/g		2.91E-02	1.00E-01	
		EU-152	2.90E-02 +- 7.0E-02	U	pCi/g		7.94E-02	1.00E-01	

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: 29-Mar-11

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070186 GAMMA_GS									
J1FJK4									
	MFH731AF	EU-154	-1.01E-02 +- 5.3E-02	U	pCi/g		9.15E-02	1.00E-01	
		EU-155	-2.71E-02 +- 5.4E-02	U	pCi/g		9.01E-02	1.00E-01	
J1FJK5									
	MFH751AF	AG-108M	-1.29E-02 +- 1.7E-02	U	pCi/g		2.78E-02		
		AMERICIUM 241	-2.30E-02 +- 9.5E-02	U	pCi/g		1.57E-01		
		CO-60	1.23E-01 +- 3.1E-02		pCi/g		3.16E-02	5.00E-02	
		CS-137	6.65E-02 +- 3.1E-02		pCi/g		3.66E-02	1.00E-01	
		EU-152	2.07E+00 +- 2.8E-01		pCi/g		1.14E-01	1.00E-01	
		EU-154	1.73E-01 +- 7.2E-02	U	pCi/g		1.33E-01	1.00E-01	
		EU-155	-2.76E-03 +- 7.8E-02	U	pCi/g		1.30E-01	1.00E-01	
J1FJK6									
	MFH9G1AF	AG-108M	-1.80E-02 +- 1.4E-02	U	pCi/g		2.29E-02		
		AMERICIUM 241	-4.29E-02 +- 7.9E-02	U	pCi/g		1.29E-01		
		CO-60	1.26E-02 +- 1.9E-02	U	pCi/g		3.46E-02	5.00E-02	
		CS-137	3.36E-02 +- 1.9E-02	U	pCi/g		3.50E-02	1.00E-01	
		EU-152	-2.82E-02 +- 9.5E-02	U	pCi/g		8.40E-02	1.00E-01	
		EU-154	-2.37E-02 +- 5.8E-02	U	pCi/g		9.91E-02	1.00E-01	
		EU-155	-3.41E-02 +- 5.7E-02	U	pCi/g		9.44E-02	1.00E-01	
J1FJK7									
	MFH9H1AF	AG-108M	-1.99E-02 +- 1.5E-02	U	pCi/g		2.36E-02		
		AMERICIUM 241	-3.58E-04 +- 8.3E-02	U	pCi/g		1.37E-01		
		CO-60	1.14E-02 +- 1.8E-02	U	pCi/g		3.31E-02	5.00E-02	
		CS-137	2.02E-02 +- 1.7E-02	U	pCi/g		3.10E-02	1.00E-01	
		EU-152	1.48E-02 +- 7.1E-02	U	pCi/g		8.36E-02	1.00E-01	
		EU-154	-1.56E-02 +- 5.5E-02	U	pCi/g		9.44E-02	1.00E-01	
		EU-155	4.94E-02 +- 5.8E-02	U	pCi/g		1.00E-01	1.00E-01	
J1FJK8									
	MFH9J1AF	AG-108M	6.24E-04 +- 1.7E-02	U	pCi/g		2.88E-02		
		AMERICIUM 241	1.50E-02 +- 7.4E-02	U	pCi/g		1.24E-01		
		CO-60	2.32E-02 +- 2.4E-02	U	pCi/g		4.55E-02	5.00E-02	
		CS-137	4.97E-02 +- 4.1E-02		pCi/g		3.76E-02	1.00E-01	
		EU-152	1.18E-01 +- 6.4E-02	U	pCi/g		1.14E-01	1.00E-01	
		EU-154	3.05E-02 +- 7.0E-02	U	pCi/g		1.29E-01	1.00E-01	
		EU-155	1.21E-02 +- 5.5E-02	U	pCi/g		9.49E-02	1.00E-01	
J1FJK9									
	MFH9K1AF	AG-108M	4.75E-03 +- 1.8E-02	U	pCi/g		3.08E-02		
		AMERICIUM 241	-4.94E-02 +- 1.4E-01	U	pCi/g		2.34E-01		

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: 29-Mar-11

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070186 GAMMA_GS									
J1FJK9									
	MFH9K1AF	CO-60	1.87E-01 +- 4.1E-02		pCi/g		3.04E-02	5.00E-02	
		CS-137	1.24E+00 +- 1.7E-01		pCi/g		3.77E-02	1.00E-01	
		EU-152	4.43E+00 +- 5.7E-01		pCi/g		9.57E-02	1.00E-01	
		EU-154	4.60E-01 +- 1.3E-01		pCi/g		1.03E-01	1.00E-01	
		EU-155	-9.16E-03 +- 6.9E-02	U	pCi/g		1.17E-01	1.00E-01	
J1FJL0									
	MFH9L1AF	AG-108M	-6.38E-03 +- 1.8E-02	U	pCi/g		3.08E-02		
		AMERICIUM 241	2.57E-02 +- 1.3E-01	U	pCi/g		2.17E-01		
		CO-60	3.26E-02 +- 2.9E-02	U	pCi/g		5.99E-02	5.00E-02	
		CS-137	3.28E-02 +- 2.6E-02	U	pCi/g		4.96E-02	1.00E-01	
		EU-152	3.40E-02 +- 5.3E-02	U	pCi/g		9.68E-02	1.00E-01	
		EU-154	3.83E-02 +- 9.7E-02	U	pCi/g		1.82E-01	1.00E-01	
		EU-155	-1.64E-02 +- 5.2E-02	U	pCi/g		8.81E-02	1.00E-01	
J1FJL1									
	MFH9N1AF	AG-108M	-2.04E-02 +- 2.5E-02	U	pCi/g		4.02E-02		
		AMERICIUM 241	-1.63E-02 +- 5.0E-02	U	pCi/g		8.33E-02		
		CO-60	1.01E-01 +- 3.4E-02	U	pCi/g		6.58E-02	5.00E-02	
		CS-137	1.06E+00 +- 1.7E-01		pCi/g		5.22E-02	1.00E-01	
		EU-152	2.90E+00 +- 4.0E-01		pCi/g		1.36E-01	1.00E-01	
		EU-154	2.87E-01 +- 1.5E-01	U	pCi/g		1.92E-01	1.00E-01	
		EU-155	7.48E-03 +- 8.5E-02	U	pCi/g		1.41E-01	1.00E-01	
J1FJL2									
	MFH9R1AF	AG-108M	5.31E-03 +- 1.5E-02	U	pCi/g		2.74E-02		
		AMERICIUM 241	4.27E-02 +- 6.1E-02	U	pCi/g		1.08E-01		
		CO-60	4.16E-03 +- 1.9E-02	U	pCi/g		3.60E-02	5.00E-02	
		CS-137	-9.90E-03 +- 2.1E-02	U	pCi/g		3.48E-02	1.00E-01	
		EU-152	4.42E-02 +- 5.0E-02	U	pCi/g		8.86E-02	1.00E-01	
		EU-154	2.16E-02 +- 6.7E-02	U	pCi/g		1.24E-01	1.00E-01	
		EU-155	3.49E-02 +- 4.7E-02	U	pCi/g		8.11E-02	1.00E-01	
J1FJL3									
	MFH9T1AF	AG-108M	3.32E-03 +- 1.4E-02	U	pCi/g		2.44E-02		
		AMERICIUM 241	-3.26E-02 +- 7.7E-02	U	pCi/g		1.27E-01		
		CO-60	-6.09E-03 +- 1.7E-02	U	pCi/g		2.92E-02	5.00E-02	
		CS-137	-3.87E-04 +- 1.7E-02	U	pCi/g		2.83E-02	1.00E-01	
		EU-152	-1.70E-02 +- 1.2E-01	U	pCi/g		7.62E-02	1.00E-01	
		EU-154	-1.36E-02 +- 5.2E-02	U	pCi/g		8.93E-02	1.00E-01	
		EU-155	-4.66E-03 +- 5.5E-02	U	pCi/g		9.28E-02	1.00E-01	

TestAmerica

rptSTLRchSaSummary2 V5.2.12 A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 29-Mar-11

TestAmerica TARL

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

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070186 GAMMA_GS									
J1FJL4									
	MFH9V1AF	AG-108M	-3.27E-04 +- 9.4E-03	U	pCi/g		1.64E-02		
		AMERICIUM 241	1.67E-03 +- 9.0E-02	U	pCi/g		1.49E-01		
		CO-60	-2.29E-03 +- 1.4E-02	U	pCi/g		2.56E-02	5.00E-02	
		CS-137	3.54E-03 +- 1.3E-02	U	pCi/g		2.35E-02	1.00E-01	
		EU-152	1.05E-02 +- 3.3E-02	U	pCi/g		5.76E-02	1.00E-01	
		EU-154	1.14E-02 +- 4.5E-02	U	pCi/g		8.18E-02	1.00E-01	
		EU-155	4.87E-02 +- 3.7E-02	U	pCi/g		6.65E-02	1.00E-01	
J1FJL5									
	MFH9W1AF	AG-108M	1.90E-02 +- 9.3E-02	U	pCi/g		1.55E-01		
		AMERICIUM 241	2.59E-01 +- 1.2E-01	U	pCi/g		1.99E-01		
		CO-60	2.87E-01 +- 6.6E-02		pCi/g		5.03E-02	5.00E-02	
		CS-137	7.35E+01 +- 9.9E+00		pCi/g		1.07E-01	1.00E-01	
		EU-152	9.85E+00 +- 1.3E+00		pCi/g		4.17E-01	1.00E-01	
		EU-154	8.63E-01 +- 1.9E-01		pCi/g		1.70E-01	1.00E-01	
		EU-155	-6.97E-03 +- 2.1E-01	U	pCi/g		3.38E-01	1.00E-01	
1070185 SRTOT_SEP_PRECIP_GPC									
J1FJK1									
	MFH641AC	STRONTIUM	2.75E-01 +- 1.4E-01		pCi/g	56%	2.14E-01		
J1FJK1 DUP									
	MFH641AJ	STRONTIUM	1.45E-01 +- 1.1E-01	U	pCi/g	54%	2.12E-01		61.8
J1FJK2									
	MFH7X1AC	STRONTIUM	3.06E-01 +- 1.4E-01		pCi/g	52%	2.01E-01		
J1FJK3									
	MFH721AC	STRONTIUM	1.46E-01 +- 1.1E-01	U	pCi/g	49%	2.14E-01		
J1FJK4									
	MFH731AC	STRONTIUM	3.35E+00 +- 9.1E-01		pCi/g	51%	2.02E-01		
J1FJK5									
	MFH751AC	STRONTIUM	1.26E+01 +- 3.3E+00		pCi/g	52%	2.09E-01		
J1FJK6									
	MFH9G1AC	STRONTIUM	1.07E+00 +- 3.3E-01		pCi/g	51%	2.20E-01		
J1FJK7									
	MFH9H1AC	STRONTIUM	5.98E+00 +- 1.6E+00		pCi/g	52%	2.12E-01		
J1FJK8									
	MFH9J1AC	STRONTIUM	1.61E+00 +- 4.6E-01		pCi/g	56%	1.94E-01		
J1FJK9									
	MFH9K1AC	STRONTIUM	7.59E+00 +- 2.0E+00		pCi/g	53%	2.09E-01		
J1FJL0									

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: 29-Mar-11

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070185 SRTOT_SEP_PRECIP_GPC									
J1FJL0									
	MFH9L1AC	STRONTIUM	1.72E-01 +- 1.1E-01	U	pCi/g	54%	2.06E-01		
J1FJL1									
	MFH9N1AC	STRONTIUM	3.02E+00 +- 8.3E-01		pCi/g	53%	2.03E-01		
J1FJL2									
	MFH9R1AC	STRONTIUM	6.76E-02 +- 9.7E-02	U	pCi/g	54%	2.08E-01		
J1FJL3									
	MFH9T1AC	STRONTIUM	4.28E-01 +- 1.7E-01		pCi/g	53%	2.25E-01		
J1FJL4									
	MFH9V1AC	STRONTIUM	1.09E-02 +- 8.8E-02	U	pCi/g	53%	2.06E-01		
J1FJL5									
	MFH9W1AC	STRONTIUM	4.23E+00 +- 1.1E+00		pCi/g	57%	1.87E-01		
1070188 NI63_LSC									
J1FJK1									
	MFH641AD	NI-63	1.30E+00 +- 7.7E+00	U	pCi/g	83%	1.62E+01	3.00E+01	
J1FJK2									
	MFH7X1AD	NI-63	-4.30E-01 +- 8.9E+00	U	pCi/g	71%	1.89E+01	3.00E+01	
J1FJK3									
	MFH721AD	NI-63	-5.21E+00 +- 6.8E+00	U	pCi/g	88%	1.51E+01	3.00E+01	
J1FJK4									
	MFH731AD	NI-63	-2.14E+00 +- 6.6E+00	U	pCi/g	90%	1.43E+01	3.00E+01	
J1FJK5									
	MFH751AD	NI-63	3.66E+01 +- 1.0E+01		pCi/g	86%	1.62E+01	3.00E+01	
J1FJK5 DUP									
	MFH751AJ	NI-63	4.60E+01 +- 1.1E+01		pCi/g	85%	1.51E+01	3.00E+01	22.6
J1FJK6									
	MFH9G1AD	NI-63	-2.07E+00 +- 6.8E+00	U	pCi/g	87%	1.47E+01	3.00E+01	
J1FJK7									
	MFH9H1AD	NI-63	-3.06E+00 +- 6.5E+00	U	pCi/g	91%	1.42E+01	3.00E+01	
J1FJK8									
	MFH9J1AD	NI-63	1.01E+01 +- 7.8E+00	U	pCi/g	86%	1.50E+01	3.00E+01	
J1FJK9									
	MFH9K1AD	NI-63	3.61E+01 +- 9.8E+00		pCi/g	88%	1.52E+01	3.00E+01	
J1FJL0									
	MFH9L1AD	NI-63	-7.04E+00 +- 6.7E+00	U	pCi/g	88%	1.52E+01	3.00E+01	
J1FJL1									
	MFH9N1AD	NI-63	3.34E+01 +- 1.0E+01		pCi/g	78%	1.65E+01	3.00E+01	
J1FJL2									
	MFH9R1AD	NI-63	6.16E+00 +- 7.8E+00	U	pCi/g	89%	1.57E+01	3.00E+01	

TestAmerica

rptSTLRchSaSummary2 V5.2.12 A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 29-Mar-11

TestAmerica TARL

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

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070188 NI63_LSC									
J1FJL3									
	MFH9T1AD	NI-63	-8.78E+00 +- 6.9E+00	U	pCi/g	88%	1.59E+01	3.00E+01	
J1FJL4									
	MFH9V1AD	NI-63	-7.09E+00 +- 6.3E+00	U	pCi/g	94%	1.43E+01	3.00E+01	
J1FJL5									
	MFH9W1AD	NI-63	2.83E+02 +- 3.1E+01		pCi/g	96%	1.39E+01	3.00E+01	
1070190 TC99_ETVDSK_LSC									
J1FJK1									
	MFH641AH	TC-99	-1.98E-01 +- 3.4E-01	U	pCi/g	100%	6.43E-01	1.50E+01	
J1FJK2									
	MFH7X1AH	TC-99	2.75E-02 +- 3.5E-01	U	pCi/g	100%	6.51E-01	1.50E+01	
J1FJK3									
	MFH721AH	TC-99	1.63E+00 +- 4.8E-01		pCi/g	100%	8.57E-01	1.50E+01	
J1FJK4									
	MFH731AH	TC-99	1.04E-01 +- 3.6E-01	U	pCi/g	100%	6.48E-01	1.50E+01	
J1FJK4 DUP									
	MFH731AK	TC-99	-1.04E-01 +- 3.4E-01	U	pCi/g	100%	6.41E-01	1.50E+01	-78400.7
J1FJK5									
	MFH751AH	TC-99	-2.60E-01 +- 3.4E-01	U	pCi/g	100%	6.60E-01	1.50E+01	
J1FJK6									
	MFH9G1AH	TC-99	-3.38E-01 +- 3.4E-01	U	pCi/g	100%	6.60E-01	1.50E+01	
J1FJK7									
	MFH9H1AH	TC-99	-4.34E-02 +- 3.5E-01	U	pCi/g	100%	6.41E-01	1.50E+01	
J1FJK8									
	MFH9J1AH	TC-99	-6.41E-02 +- 3.5E-01	U	pCi/g	100%	6.47E-01	1.50E+01	
J1FJK9									
	MFH9K1AH	TC-99	-2.69E-01 +- 3.3E-01	U	pCi/g	100%	6.43E-01	1.50E+01	
J1FJL0									
	MFH9L1AH	TC-99	-1.08E-01 +- 3.4E-01	U	pCi/g	100%	6.48E-01	1.50E+01	
J1FJL1									
	MFH9N1AH	TC-99	-2.45E-01 +- 3.4E-01	U	pCi/g	100%	6.49E-01	1.50E+01	
J1FJL2									
	MFH9R1AH	TC-99	3.62E-02 +- 3.5E-01	U	pCi/g	100%	6.51E-01	1.50E+01	
J1FJL3									
	MFH9T1AH	TC-99	3.04E-02 +- 3.6E-01	U	pCi/g	100%	6.56E-01	1.50E+01	
J1FJL4									
	MFH9V1AH	TC-99	-1.90E-01 +- 3.4E-01	U	pCi/g	100%	6.46E-01	1.50E+01	
J1FJL5									
	MFH9W1AH	TC-99	1.77E-01 +- 3.6E-01	U	pCi/g	100%	6.48E-01	1.50E+01	

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: 29-Mar-11

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070190	TC99_ETVDSK_LSC								
1070192	C14_CHEM_LSC								
	J1FJK1								
	MFH641AG	C-14	-4.95E-02 +- 2.0E-01	U	pCi/g	100%	4.60E-01	5.00E+01	
	J1FJK2								
	MFH7X1AG	C-14	-4.90E-03 +- 2.0E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
	J1FJK3								
	MFH721AG	C-14	-2.30E-01 +- 1.9E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
	J1FJK3 DUP								
	MFH721AJ	C-14	1.30E-02 +- 2.1E-01	U	pCi/g	100%	4.60E-01	5.00E+01	-223.9
	J1FJK4								
	MFH731AG	C-14	9.80E-03 +- 2.1E-01	U	pCi/g	100%	4.60E-01	5.00E+01	
	J1FJK5								
	MFH751AG	C-14	1.99E-01 +- 2.1E-01	U	pCi/g	100%	4.59E-01	5.00E+01	
	J1FJK6								
	MFH9G1AG	C-14	-1.29E-01 +- 2.0E-01	U	pCi/g	100%	4.56E-01	5.00E+01	
	J1FJK7								
	MFH9H1AG	C-14	1.37E-02 +- 2.1E-01	U	pCi/g	100%	4.60E-01	5.00E+01	
	J1FJK8								
	MFH9J1AG	C-14	-2.61E-02 +- 2.0E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
	J1FJK9								
	MFH9K1AG	C-14	1.16E-01 +- 2.1E-01	U	pCi/g	100%	4.60E-01	5.00E+01	
	J1FJL0								
	MFH9L1AG	C-14	-2.35E-02 +- 2.0E-01	U	pCi/g	100%	4.57E-01	5.00E+01	
	J1FJL1								
	MFH9N1AG	C-14	3.40E-02 +- 2.1E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
	J1FJL2								
	MFH9R1AG	C-14	2.30E-02 +- 2.1E-01	U	pCi/g	100%	4.60E-01	5.00E+01	
	J1FJL3								
	MFH9T1AG	C-14	6.63E-02 +- 2.1E-01	U	pCi/g	100%	4.58E-01	5.00E+01	
	J1FJL4								
	MFH9V1AG	C-14	1.35E-01 +- 2.1E-01	U	pCi/g	100%	4.60E-01	5.00E+01	
	J1FJL5								
	MFH9W1AG	C-14	4.62E-01 +- 2.3E-01		pCi/g	100%	4.58E-01	5.00E+01	
1070195	906.0_H3_LSC								
	J1FJK1								
	MFH641AE	H-3	8.69E-02 +- 2.0E-02		pCi/g	100%	3.76E-02	4.00E+02	
	J1FJK2								
	MFH7X1AE	H-3	5.81E-02 +- 2.2E-02		pCi/g	100%	4.49E-02	4.00E+02	
	J1FJK3								

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: 29-Mar-11

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1070195	906.0_H3_LSC								
	J1FJK3								
	MFH721AE	H-3	-9.61E-04 +- 7.0E-03	U	pCi/g	100%	1.62E-02	4.00E+02	
	J1FJK3 DUP								
	MFH721AK	H-3	6.45E-03 +- 7.8E-03	U	pCi/g	100%	1.73E-02	4.00E+02	270.0
	J1FJK4								
	MFH731AE	H-3	8.00E-03 +- 7.1E-03	U	pCi/g	100%	1.56E-02	4.00E+02	
	J1FJK5								
	MFH751AE	H-3	1.11E-02 +- 6.9E-03	U	pCi/g	100%	1.49E-02	4.00E+02	
	J1FJK6								
	MFH9G1AE	H-3	6.54E-02 +- 9.8E-03		pCi/g	100%	1.63E-02	4.00E+02	
	J1FJK7								
	MFH9H1AE	H-3	6.62E-03 +- 6.5E-03	U	pCi/g	100%	1.43E-02	4.00E+02	
	J1FJK8								
	MFH9J1AE	H-3	2.41E-03 +- 7.0E-03	U	pCi/g	100%	1.60E-02	4.00E+02	
	J1FJK9								
	MFH9K1AE	H-3	8.73E-03 +- 8.6E-03	U	pCi/g	100%	1.92E-02	4.00E+02	
	J1FJL0								
	MFH9L1AE	H-3	-1.34E-02 +- 1.7E-02	U	pCi/g	100%	4.05E-02	4.00E+02	
	J1FJL1								
	MFH9N1AE	H-3	6.00E-03 +- 6.5E-03	U	pCi/g	100%	1.42E-02	4.00E+02	
	J1FJL2								
	MFH9R1AE	H-3	2.46E-03 +- 6.7E-03	U	pCi/g	100%	1.52E-02	4.00E+02	
	J1FJL3								
	MFH9T1AE	H-3	-1.76E-03 +- 6.9E-03	U	pCi/g	100%	1.66E-02	4.00E+02	
	J1FJL4								
	MFH9V1AE	H-3	5.11E-03 +- 7.8E-03	U	pCi/g	100%	1.76E-02	4.00E+02	
	J1FJL5								
	MFH9W1AE	H-3	2.14E-02 +- 8.6E-03		pCi/g	100%	1.79E-02	4.00E+02	
1075395	7196_CR6								
	J1FJK1								
	MFH641AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	MFH641AL	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	3.50E-01	0.6
	J1FJK2								
	MFH7X1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJK3								
	MFH721AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJK4								
	MFH731AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJK5								

TestAmerica

rptSTLRchSaSummary2 V5.2.12 A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 29-Mar-11

TestAmerica TARL

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

Report No. : 46023

SDG No: JP0118

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1075395	7196_CR6								
	J1FJK5								
	MFH751AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJK6								
	MFH9G1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJK7								
	MFH9H1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJK8								
	MFH9J1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJK9								
	MFH9K1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJL0								
	MFH9L1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJL1								
	MFH9NAA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJL2								
	MFH9R1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJL3								
	MFH9T1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FJL4								
	MFH9V1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FJL5								
	MFH9W1AA	HEXCHROME	1.07E+00 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	

No. of Results: 208

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.

QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 29-Mar-11

Report No. : 46023

SDG No.: JP0118

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
GAMMA_GS								
1070186 BLANK QC,								
MFJG51AA	AG-108M	6.18E-04 +- 9.4E-03	U	pCi/g				1.65E-02
	AMERICIUM 241	-3.43E-02 +- 4.5E-02	U	pCi/g				7.31E-02
	CO-60	-5.08E-03 +- 9.2E-03	U	pCi/g				1.58E-02
	CS-137	-4.51E-03 +- 1.1E-02	U	pCi/g				1.87E-02
	EU-152	1.30E-03 +- 3.5E-02	U	pCi/g				5.68E-02
	EU-154	4.80E-03 +- 2.9E-02	U	pCi/g				5.51E-02
	EU-155	-1.18E-03 +- 3.1E-02	U	pCi/g				5.30E-02
1070186 LCS,								
MFJG51AC	CS-137	1.13E+00 +- 1.6E-01		pCi/g		104%	0.0	4.08E-02
	RA-226	9.84E-01 +- 1.7E-01		pCi/g		86%	-0.1	6.61E-02
	RA-228	1.02E+00 +- 2.1E-01		pCi/g		108%	0.1	1.17E-01
	U-238	1.14E+00 +- 1.7E-01		pCi/g		95%	-0.1	7.72E-02
SRTOT_SEP_PRECIP_GPC								
1070185 BLANK QC,								
MFJGW1AA	STRONTIUM	2.35E-02 +- 6.2E-02	U	pCi/g	93%			1.41E-01
1070185 LCS,								
MFJGW1AC	STRONTIUM	1.07E+00 +- 3.1E-01		pCi/g	88%	95%	-0.1	1.37E-01
NI63_LSC								
1070188 BLANK QC,								
MFJG91AA	NI-63	-1.22E+00 +- 1.2E+01	U	pCi/g	54%			2.60E+01
1070188 LCS,								
MFJG91AC	NI-63	5.61E+02 +- 5.7E+01		pCi/g	93%	88%	-0.1	1.50E+01
TC99_ETVDSK_LSC								
1070190 BLANK QC,								
MFJHL1AA	TC-99	-2.40E-01 +- 3.4E-01	U	pCi/g	100%			6.47E-01
1070190 LCS,								
MFJHL1AC	TC-99	2.16E+02 +- 1.2E+01		pCi/g	100%	94%	-0.1	6.52E-01
1070190 MATRIX SPIKE, J1FJK4								
MFH731AJ	TC-99	3.78E+01 +- 2.5E+00		pCi/g	100%	56%	-0.4	6.85E-01
C14_CHEM_LSC								
1070192 BLANK QC,								
MFJH31AA	C-14	-4.97E-04 +- 5.1E-03	U	pCi/g	100%			1.15E-02
1070192 LCS,								
MFJH31AC	C-14	7.68E+00 +- 5.4E-01		pCi/g	100%	102%	0.0	4.62E-01
906.0_H3_LSC								
1070195 BLANK QC,								
MFJJA1AA	H-3	-9.44E-03 +- 1.5E-02	U	pCi/g	100%			3.57E-02
1070195 LCS,								
MFJJA1AC	H-3	3.68E-01 +- 3.4E-02		pCi/g	100%	97%	0.0	4.73E-02
7196_CR6								
1075395 MATRIX SPIKE, J1FJK1								

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

rptSTLRchQcSummary 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.

QC Results Summary

Date: 29-Mar-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46023

SDG No.: JP0118

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
MFH641AK	HEXCHROME	9.92E+00 +- 0.0E+00		mg/kg	N/A	86%	-0.1	1.54E-01
1075395 LCS,								
MFQM1AC	HEXCHROME	1.78E+01 +- 0.0E+00	U	mg/kg	N/A	89%	-0.1	1.55E-01
1075395 BLANK QC,								
MFQM1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 25

TestAmerica

rptSTLRchQcSummary V5.2.12 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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:00:00 AM
Lot-Sample No.:	J1C100626-1	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK1	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH641AC			**Report DB ID:** 9MFH6410					
STRONTIUM	***2.75E-01***		1.2E-01	1.4E-01	2.14E-01	pCi/g	56%	*(1.3)*	3/21/11 03:25 p		6.0	GPC26A
						1.00E-01		*(4.)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH641AF			**Report DB ID:** 9MFH6410					
AG-108M	***-4.61E-03***	U	1.5E-02	1.5E-02	2.46E-02	pCi/g		*-0.19*	3/14/11 11:52 p		338.1	GER10$1
								-0.64			g	
AMERICIUM 241	***-7.92E-02***	U	7.9E-02	7.9E-02	1.28E-01	pCi/g		*-0.62*	3/14/11 11:52 p		338.1	GER10$1
								-(2.)			g	
CO-60	***1.93E-02***	U	2.0E-02	2.0E-02	3.63E-02	pCi/g		*0.53*	3/14/11 11:52 p		338.1	GER10$1
							5.00E-02	*(2.)*			g	
CS-137	***7.96E-03***	U	1.7E-02	1.7E-02	3.05E-02	pCi/g		*0.26*	3/14/11 11:52 p		338.1	GER10$1
							1.00E-01	*0.92*			g	
EU-152	***-9.62E-02***	U	5.5E-02	5.5E-02	8.06E-02	pCi/g		*-(1.2)*	3/14/11 11:52 p		338.1	GER10$1
							1.00E-01	*-(3.5)*			g	
EU-154	***-3.04E-02***	U	6.0E-02	6.0E-02	1.01E-01	pCi/g		*-0.3*	3/14/11 11:52 p		338.1	GER10$1
							1.00E-01	*-(1.)*			g	
EU-155	***-3.61E-02***	U	5.6E-02	5.6E-02	9.13E-02	pCi/g		*-0.4*	3/14/11 11:52 p		338.1	GER10$1
							1.00E-01	*-(1.3)*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH641AD			**Report DB ID:** 9MFH6410					
NI-63	***1.30E+00***	U	6.6E+00	7.7E+00	1.62E+01	pCi/g	83%	*0.08*	3/18/11 09:40 p		0.25	LSC3
						7.61E+00	3.00E+01	*0.34*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH641AH			**Report DB ID:** 9MFH6410					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:00:00 AM
Lot-Sample No.:	J1C100626-1	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK1	**COC No. :**	RC-110-045	**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
TC-99	***-1.98E-01***	U	2.6E-01	3.4E-01	6.43E-01	pCi/g	100%	*-0.31*	3/19/11 03:48 p		2.0	LSC3
						3.09E-01	1.50E+01	*-(1.2)*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH641AG		**Report DB ID:**	9MFH6410				
C-14	***-4.95E-02***	U	1.8E-01	2.0E-01	4.60E-01	pCi/g	100%	*-0.11*	3/16/11 06:37 a		5.014	LSC3
						2.17E-01	5.00E+01	*-0.49*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH641AE		**Report DB ID:**	9MFH6410				
H-3	***8.69E-02***		1.9E-02	2.0E-02	3.76E-02	pCi/g	100%	*(2.3)*	3/18/11 12:16 p		99.9	LSC4
						1.79E-02	4.00E+02	*(8.8)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH641AA		**Report DB ID:**	9MFH6410				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	SDG:	JP0118	Collection Date:	3/10/2011 9:05:00 AM
Lot-Sample No.:	J1C100626-2	Report No. :	46023	Received Date:	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK2	COC No. :	RC-110-045	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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH7X1AC			**Report DB ID:** 9MFH7X10					
STRONTIUM	***3.06E-01***		1.2E-01	1.4E-01	2.01E-01	pCi/g	52%	*(1.5)*	3/21/11 03:25 p		5.99	GPC26C
						9.31E-02		*(4.3)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH7X1AF			**Report DB ID:** 9MFH7X10					
AG-108M	***1.17E-02***	U	3.8E-02	3.8E-02	6.76E-02	pCi/g		*0.17*	3/14/11 11:53 p		65.2	GER14$1
								0.62			g	
AMERICIUM 241	***-3.49E-03***	U	5.3E-02	5.3E-02	8.91E-02	pCi/g		*-0.04*	3/14/11 11:53 p		65.2	GER14$1
								-0.13			g	
CO-60	***1.00E-02***	U	5.3E-02	5.3E-02	9.77E-02	pCi/g		*0.1*	3/14/11 11:53 p		65.2	GER14$1
							5.00E-02	*0.38*			g	
CS-137	***4.82E-02***	U	5.2E-02	5.2E-02	9.67E-02	pCi/g		*0.5*	3/14/11 11:53 p		65.2	GER14$1
							1.00E-01	*(1.8)*			g	
EU-152	***6.74E-02***	U	1.3E-01	1.3E-01	2.17E-01	pCi/g		*0.31*	3/14/11 11:53 p		65.2	GER14$1
							1.00E-01	*(1.)*			g	
EU-154	***-2.30E-02***	U	1.7E-01	1.7E-01	3.06E-01	pCi/g		*-0.08*	3/14/11 11:53 p		65.2	GER14$1
							1.00E-01	*-0.27*			g	
EU-155	***-1.61E-02***	U	8.5E-02	8.5E-02	1.45E-01	pCi/g		*-0.11*	3/14/11 11:53 p		65.2	GER14$1
							1.00E-01	*-0.38*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH7X1AD			**Report DB ID:** 9MFH7X10					
NI-63	***-4.30E-01***	U	7.6E+00	8.9E+00	1.89E+01	pCi/g	71%	*-0.02*	3/18/11 10:03 p		0.25	LSC3
						8.86E+00	3.00E+01	*-0.1*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH7X1AH			**Report DB ID:** 9MFH7X10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:05:00 AM
Lot-Sample No.:	J1C100626-2	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK2	**COC No. :**	RC-110-045	**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
TC-99	***2.75E-02***	U	2.7E-01	3.5E-01	6.51E-01	pCi/g	100%	*0.04*	3/19/11 04:51 p		2.01	LSC3
						3.13E-01	1.50E+01	*0.16*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH7X1AG		**Report DB ID:**	9MFH7X10				
C-14	***-4.90E-03***	U	1.9E-01	2.0E-01	4.58E-01	pCi/g	100%	*-0.01*	3/16/11 07:00 a		5.036	LSC3
						2.16E-01	5.00E+01	*-0.05*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH7X1AE		**Report DB ID:**	9MFH7X10				
H-3	***5.81E-02***		2.1E-02	2.2E-02	4.49E-02	pCi/g	100%	*(1.3)*	3/18/11 01:39 p		119.8	LSC4
						2.14E-02	4.00E+02	*(5.3)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH7X1AA		**Report DB ID:**	9MFH7X10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:25:00 AM
Lot-Sample No.:	J1C100626-3	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK3	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH721AC		**Report DB ID:** 9MFH7210						
STRONTIUM	***1.46E-01***	U	1.1E-01	1.1E-01	2.14E-01	pCi/g	49%	*0.68*	3/21/11 03:25 p		6.0	GPC26D
						9.94E-02		*(2.6)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH721AF		**Report DB ID:** 9MFH7210						
AG-108M	***-3.91E-03***	U	1.3E-02	1.3E-02	2.26E-02	pCi/g		*-0.17*	3/15/11 03:56 a		367.6	GER10$1
								-0.58			g	
AMERICIUM 241	***-1.74E-03***	U	7.7E-02	7.7E-02	1.28E-01	pCi/g		*-0.01*	3/15/11 03:56 a		367.6	GER10$1
								-0.04			g	
CO-60	***-1.41E-03***	U	1.6E-02	1.6E-02	2.87E-02	pCi/g		*-0.05*	3/15/11 03:56 a		367.6	GER10$1
							5.00E-02	*-0.17*			g	
CS-137	***9.56E-03***	U	1.7E-02	1.7E-02	2.97E-02	pCi/g		*0.32*	3/15/11 03:56 a		367.6	GER10$1
							1.00E-01	*(1.1)*			g	
EU-152	***-1.06E-01***	U	1.1E-01	1.1E-01	7.55E-02	pCi/g		*-(1.4)*	3/15/11 03:56 a		367.6	GER10$1
							1.00E-01	*-(1.9)*			g	
EU-154	***1.41E-02***	U	5.1E-02	5.1E-02	9.14E-02	pCi/g		*0.15*	3/15/11 03:56 a		367.6	GER10$1
							1.00E-01	*0.55*			g	
EU-155	***-8.14E-03***	U	5.4E-02	5.4E-02	9.03E-02	pCi/g		*-0.09*	3/15/11 03:56 a		367.6	GER10$1
							1.00E-01	*-0.3*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH721AD		**Report DB ID:** 9MFH7210						
NI-63	***-5.21E+00***	U	5.8E+00	6.8E+00	1.51E+01	pCi/g	88%	*-0.34*	3/18/11 10:26 p		0.25	LSC3
						7.09E+00	3.00E+01	*-(1.5)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH721AH		**Report DB ID:** 9MFH7210						

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:25:00 AM
Lot-Sample No.:	J1C100626-3	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK3	**COC No. :**	RC-110-045	**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
TC-99	***1.63E+00***		3.7E-01	4.8E-01	8.57E-01	pCi/g	100%	*(1.9)*	3/19/11 05:55 p		2.01	LSC3
						4.12E-01	1.50E+01	*(6.8)*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH721AG		**Report DB ID:**	9MFH7210				
C-14	***-2.30E-01***	U	1.7E-01	1.9E-01	4.57E-01	pCi/g	100%	*-0.5*	3/16/11 07:23 a		5.044	LSC3
						2.15E-01	5.00E+01	*-(2.4)*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH721AE		**Report DB ID:**	9MFH7210				
H-3	***-9.61E-04***	U	6.6E-03	7.0E-03	1.62E-02	pCi/g	100%	*-0.06*	3/18/11 03:02 p		101.9	LSC4
						7.71E-03	4.00E+02	*-0.27*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH721AA		**Report DB ID:**	9MFH7210				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:10:00 AM
Lot-Sample No.:	J1C100626-4	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK4	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH731AC			**Report DB ID:** 9MFH7310					
STRONTIUM	***3.35E+00***		2.8E-01	9.1E-01	2.02E-01	pCi/g	51%	*(16.6)*	3/21/11 03:25 p		5.99	GPC27A
						9.39E-02		*(7.3)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH731AF			**Report DB ID:** 9MFH7310					
AG-108M	***-3.57E-03***	U	1.3E-02	1.3E-02	2.18E-02	pCi/g		*-0.16*	3/15/11 07:34 a		366.3	GER10$1
								-0.55			g	
AMERICIUM 241	***-2.07E-02***	U	7.7E-02	7.7E-02	1.26E-01	pCi/g		*-0.16*	3/15/11 07:34 a		366.3	GER10$1
								-0.54			g	
CO-60	***5.45E-03***	U	1.7E-02	1.7E-02	3.01E-02	pCi/g		*0.18*	3/15/11 07:34 a		366.3	GER10$1
							5.00E-02	*0.65*			g	
CS-137	***1.36E-02***	U	1.6E-02	1.6E-02	2.91E-02	pCi/g		*0.47*	3/15/11 07:34 a		366.3	GER10$1
							1.00E-01	*(1.7)*			g	
EU-152	***2.90E-02***	U	7.0E-02	7.0E-02	7.94E-02	pCi/g		*0.37*	3/15/11 07:34 a		366.3	GER10$1
							1.00E-01	*0.83*			g	
EU-154	***-1.01E-02***	U	5.3E-02	5.3E-02	9.15E-02	pCi/g		*-0.11*	3/15/11 07:34 a		366.3	GER10$1
							1.00E-01	*-0.38*			g	
EU-155	***-2.71E-02***	U	5.4E-02	5.4E-02	9.01E-02	pCi/g		*-0.3*	3/15/11 07:34 a		366.3	GER10$1
							1.00E-01	*-(1.)*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH731AD			**Report DB ID:** 9MFH7310					
NI-63	***-2.14E+00***	U	5.7E+00	6.6E+00	1.43E+01	pCi/g	90%	*-0.15*	3/18/11 10:49 p		0.26	LSC3
						6.73E+00	3.00E+01	*-0.65*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH731AH			**Report DB ID:** 9MFH7310					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:10:00 AM
Lot-Sample No.:	J1C100626-4	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK4	**COC No. :**	RC-110-045	**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
TC-99	***1.04E-01***	U	2.7E-01	3.6E-01	6.48E-01	pCi/g	100%	*0.16*	3/19/11 06:58 p		2.01	LSC3
						3.11E-01	1.50E+01	*0.58*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH731AG		**Report DB ID:** 9MFH7310					
C-14	***9.80E-03***	U	1.9E-01	2.1E-01	4.60E-01	pCi/g	100%	*0.02*	3/16/11 08:08 a		5.016	LSC3
						2.17E-01	5.00E+01	*0.1*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH731AE		**Report DB ID:** 9MFH7310					
H-3	***8.00E-03***	U	6.7E-03	7.1E-03	1.56E-02	pCi/g	100%	*0.51*	3/18/11 05:48 p		111.9	LSC4
						7.46E-03	4.00E+02	*(2.2)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH731AA		**Report DB ID:** 9MFH7310					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:15:00 AM
Lot-Sample No.:	J1C100626-5	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK5	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH751AC			**Report DB ID:** 9MFH7510					
STRONTIUM	***1.26E+01***		5.2E-01	3.3E+00	2.09E-01	pCi/g	52%	*(60.5)*	3/21/11 03:25 p		6.01	GPC27B
						9.73E-02		*(7.6)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH751AF			**Report DB ID:** 9MFH7510					
AG-108M	***-1.29E-02***	U	1.7E-02	1.7E-02	2.78E-02	pCi/g		*-0.47*	3/15/11 11:01 a		382.0	GER10$1
								-(1.5)			g	
AMERICIUM 241	***-2.30E-02***	U	9.5E-02	9.5E-02	1.57E-01	pCi/g		*-0.15*	3/15/11 11:01 a		382.0	GER10$1
								-0.48			g	
CO-60	***1.23E-01***		3.1E-02	3.1E-02	3.16E-02	pCi/g		*(3.9)*	3/15/11 11:01 a		382.0	GER10$1
							5.00E-02	*(8.)*			g	
CS-137	***6.65E-02***		3.1E-02	3.1E-02	3.66E-02	pCi/g		*(1.8)*	3/15/11 11:01 a		382.0	GER10$1
							1.00E-01	*(4.2)*			g	
EU-152	***2.07E+00***		2.8E-01	2.8E-01	1.14E-01	pCi/g		*(18.2)*	3/15/11 11:01 a		382.0	GER10$1
							1.00E-01	*(14.9)*			g	
EU-154	***1.73E-01***	U	7.2E-02	7.2E-02	1.33E-01	pCi/g		*(1.3)*	3/15/11 11:01 a		382.0	GER10$1
							1.00E-01	*(4.8)*			g	
EU-155	***-2.76E-03***	U	7.8E-02	7.8E-02	1.30E-01	pCi/g		*-0.02*	3/15/11 11:01 a		382.0	GER10$1
							1.00E-01	*-0.07*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH751AD			**Report DB ID:** 9MFH7510					
NI-63	***3.66E+01***		8.3E+00	1.0E+01	1.62E+01	pCi/g	86%	*(2.3)*	3/18/11 11:12 p		0.24	LSC3
						7.58E+00	3.00E+01	*(7.1)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH751AH			**Report DB ID:** 9MFH7510					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:15:00 AM
Lot-Sample No.:	J1C100626-5	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK5	**COC No. :**	RC-110-045	**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
TC-99	***-2.60E-01***	U	2.6E-01	3.4E-01	6.60E-01	pCi/g	100%	*-0.39*	3/19/11 10:07 p		2.02	LSC3
						3.17E-01	1.50E+01	*-(1.5)*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH751AG		**Report DB ID:** 9MFH7510					
C-14	***1.99E-01***	U	2.0E-01	2.1E-01	4.59E-01	pCi/g	100%	*0.43*	3/16/11 08:31 a		5.022	LSC3
						2.16E-01	5.00E+01	*(1.9)*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH751AE		**Report DB ID:** 9MFH7510					
H-3	***1.11E-02***	U	6.5E-03	6.9E-03	1.49E-02	pCi/g	100%	*0.75*	3/18/11 07:10 p		130.5	LSC4
						7.11E-03	4.00E+02	*(3.2)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH751AA		**Report DB ID:** 9MFH7510					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **Comments:**

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:08:00 AM
Lot-Sample No.:	J1C100626-6	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK6	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9G1AC			**Report DB ID:** 9MFH9G10					
STRONTIUM	***1.07E+00***		1.8E-01	3.3E-01	2.20E-01	pCi/g	51%	*(4.9)*	3/21/11 03:25 p		6.0	GPC27C
						1.03E-01		*(6.5)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9G1AF			**Report DB ID:** 9MFH9G10					
AG-108M	***-1.80E-02***	U	1.4E-02	1.4E-02	2.29E-02	pCi/g		*-0.79*	3/15/11 02:29 p		338.2	GER10$1
								-(2.5)			g	
AMERICIUM 241	***-4.29E-02***	U	7.9E-02	7.9E-02	1.29E-01	pCi/g		*-0.33*	3/15/11 02:29 p		338.2	GER10$1
								-(1.1)			g	
CO-60	***1.26E-02***	U	1.9E-02	1.9E-02	3.46E-02	pCi/g		*0.36*	3/15/11 02:29 p		338.2	GER10$1
							5.00E-02	*(1.3)*			g	
CS-137	***3.36E-02***	U	1.9E-02	1.9E-02	3.50E-02	pCi/g		*0.96*	3/15/11 02:29 p		338.2	GER10$1
							1.00E-01	*(3.5)*			g	
EU-152	***-2.82E-02***	U	9.5E-02	9.5E-02	8.40E-02	pCi/g		*-0.34*	3/15/11 02:29 p		338.2	GER10$1
							1.00E-01	*-0.59*			g	
EU-154	***-2.37E-02***	U	5.8E-02	5.8E-02	9.91E-02	pCi/g		*-0.24*	3/15/11 02:29 p		338.2	GER10$1
							1.00E-01	*-0.81*			g	
EU-155	***-3.41E-02***	U	5.7E-02	5.7E-02	9.44E-02	pCi/g		*-0.36*	3/15/11 02:29 p		338.2	GER10$1
							1.00E-01	*-(1.2)*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9G1AD			**Report DB ID:** 9MFH9G10					
NI-63	***-2.07E+00***	U	5.8E+00	6.8E+00	1.47E+01	pCi/g	87%	*-0.14*	3/18/11 11:57 p		0.26	LSC3
						6.92E+00	3.00E+01	*-0.61*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9G1AH			**Report DB ID:** 9MFH9G10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:08:00 AM
Lot-Sample No.:	J1C100626-6	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK6	**COC No. :**	RC-110-045	**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
TC-99	***-3.38E-01***	U	2.6E-01	3.4E-01	6.60E-01	pCi/g	100%	*-0.51*	3/19/11 11:10 p		2.0	LSC3
						3.17E-01	1.50E+01	*-(2.)*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9G1AG		**Report DB ID:**	9MFH9G10				
C-14	***-1.29E-01***	U	1.8E-01	2.0E-01	4.56E-01	pCi/g	100%	*-0.28*	3/16/11 08:54 a		5.045	LSC3
						2.15E-01	5.00E+01	*-(1.3)*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9G1AE		**Report DB ID:**	9MFH9G10				
H-3	***6.54E-02***		8.9E-03	9.8E-03	1.63E-02	pCi/g	100%	*(4.)*	3/18/11 08:34 p		108.6	LSC4
						7.75E-03	4.00E+02	*(13.4)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9G1AA		**Report DB ID:**	9MFH9G10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:20:00 AM
Lot-Sample No.:	J1C100626-7	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK7	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9H1AC			**Report DB ID:** 9MFH9H10					
STRONTIUM	***5.98E+00***		3.7E-01	1.6E+00	2.12E-01	pCi/g	52%	*(28.2)*	3/21/11 03:25 p		5.99	GPC28B
						9.88E-02		*(7.5)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9H1AF			**Report DB ID:** 9MFH9H10					
AG-108M	***-1.99E-02***	U	1.5E-02	1.5E-02	2.36E-02	pCi/g		*-0.84*	3/15/11 11:41 p		352.2	GER10$1
								-(2.7)			g	
AMERICIUM 241	***-3.58E-04***	U	8.3E-02	8.3E-02	1.37E-01	pCi/g		*0.*	3/15/11 11:41 p		352.2	GER10$1
								-0.01			g	
CO-60	***1.14E-02***	U	1.8E-02	1.8E-02	3.31E-02	pCi/g		*0.34*	3/15/11 11:41 p		352.2	GER10$1
							5.00E-02	*(1.3)*			g	
CS-137	***2.02E-02***	U	1.7E-02	1.7E-02	3.10E-02	pCi/g		*0.65*	3/15/11 11:41 p		352.2	GER10$1
							1.00E-01	*(2.4)*			g	
EU-152	***1.48E-02***	U	7.1E-02	7.1E-02	8.36E-02	pCi/g		*0.18*	3/15/11 11:41 p		352.2	GER10$1
							1.00E-01	*0.41*			g	
EU-154	***-1.56E-02***	U	5.5E-02	5.5E-02	9.44E-02	pCi/g		*-0.16*	3/15/11 11:41 p		352.2	GER10$1
							1.00E-01	*-0.56*			g	
EU-155	***4.94E-02***	U	5.8E-02	5.8E-02	1.00E-01	pCi/g		*0.49*	3/15/11 11:41 p		352.2	GER10$1
							1.00E-01	*(1.7)*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9H1AD			**Report DB ID:** 9MFH9H10					
NI-63	***-3.06E+00***	U	5.6E+00	6.5E+00	1.42E+01	pCi/g	91%	*-0.22*	3/19/11 12:20 a		0.26	LSC3
						6.66E+00	3.00E+01	*-0.95*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9H1AH			**Report DB ID:** 9MFH9H10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:20:00 AM
Lot-Sample No.:	J1C100626-7	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK7	**COC No. :**	RC-110-045	**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
TC-99	***-4.34E-02***	U	2.6E-01	3.5E-01	6.41E-01	pCi/g	100%	*-0.07*	3/20/11 12:13 a		2.02	LSC3
						3.08E-01	1.50E+01	*-0.25*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9H1AG		**Report DB ID:**	9MFH9H10				
C-14	***1.37E-02***	U	1.9E-01	2.1E-01	4.60E-01	pCi/g	100%	*0.03*	3/16/11 09:16 a		5.01	LSC3
						2.17E-01	5.00E+01	*0.13*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9H1AE		**Report DB ID:**	9MFH9H10				
H-3	***6.62E-03***	U	6.1E-03	6.5E-03	1.43E-02	pCi/g	100%	*0.46*	3/18/11 09:56 p		115.7	LSC4
						6.82E-03	4.00E+02	*(2.)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9H1AA		**Report DB ID:**	9MFH9H10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:30:00 AM
Lot-Sample No.:	J1C100626-8	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK8	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9J1AC			**Report DB ID:** 9MFH9J10					
STRONTIUM	***1.61E+00***		2.0E-01	4.6E-01	1.94E-01	pCi/g	56%	*(8.3)*	3/21/11 03:25 p		6.0	GPC28C
						9.01E-02		*(7.)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9J1AF			**Report DB ID:** 9MFH9J10					
AG-108M	***6.24E-04***	U	1.7E-02	1.7E-02	2.88E-02	pCi/g		*0.02*	3/15/11 11:41 p		335.3	GER7$1
								0.08			g	
AMERICIUM 241	***1.50E-02***	U	7.4E-02	7.4E-02	1.24E-01	pCi/g		*0.12*	3/15/11 11:41 p		335.3	GER7$1
								0.4			g	
CO-60	***2.32E-02***	U	2.4E-02	2.4E-02	4.55E-02	pCi/g		*0.51*	3/15/11 11:41 p		335.3	GER7$1
							5.00E-02	*(2.)*			g	
CS-137	***4.97E-02***		4.1E-02	4.1E-02	3.76E-02	pCi/g		*(1.3)*	3/15/11 11:41 p		335.3	GER7$1
							1.00E-01	*(2.4)*			g	
EU-152	***1.18E-01***	U	6.4E-02	6.4E-02	1.14E-01	pCi/g		*(1.)*	3/15/11 11:41 p		335.3	GER7$1
							1.00E-01	*(3.7)*			g	
EU-154	***3.05E-02***	U	7.0E-02	7.0E-02	1.29E-01	pCi/g		*0.24*	3/15/11 11:41 p		335.3	GER7$1
							1.00E-01	*0.87*			g	
EU-155	***1.21E-02***	U	5.5E-02	5.5E-02	9.49E-02	pCi/g		*0.13*	3/15/11 11:41 p		335.3	GER7$1
							1.00E-01	*0.44*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9J1AD			**Report DB ID:** 9MFH9J10					
NI-63	***1.01E+01***	U	6.6E+00	7.8E+00	1.50E+01	pCi/g	86%	*0.67*	3/19/11 12:43 a		0.26	LSC3
						7.05E+00	3.00E+01	*(2.6)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9J1AH			**Report DB ID:** 9MFH9J10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:30:00 AM
Lot-Sample No.:	J1C100626-8	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK8	**COC No. :**	RC-110-045	**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
TC-99	***-6.41E-02***	U	2.6E-01	3.5E-01	6.47E-01	pCi/g	100%	*-0.1*	3/20/11 01:16 a		2.0	LSC3
						3.11E-01	1.50E+01	*-0.37*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9J1AG		**Report DB ID:**	9MFH9J10				
C-14	***-2.61E-02***	U	1.8E-01	2.0E-01	4.58E-01	pCi/g	100%	*-0.06*	3/16/11 09:39 a		5.029	LSC3
						2.16E-01	5.00E+01	*-0.26*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9J1AE		**Report DB ID:**	9MFH9J10				
H-3	***2.41E-03***	U	6.6E-03	7.0E-03	1.60E-02	pCi/g	100%	*0.15*	3/18/11 11:19 p		104.5	LSC4
						7.62E-03	4.00E+02	*0.69*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9J1AA		**Report DB ID:**	9MFH9J10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **Comments:**

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:35:00 AM
Lot-Sample No.:	J1C100626-9	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK9	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9K1AC			**Report DB ID:** 9MFH9K10					
STRONTIUM	***7.59E+00***		4.2E-01	2.0E+00	2.09E-01	pCi/g	53%	*(36.3)*	3/21/11 03:25 p		6.01	GPC28D
						9.73E-02		*(7.5)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9K1AF			**Report DB ID:** 9MFH9K10					
AG-108M	***4.75E-03***	U	1.8E-02	1.8E-02	3.08E-02	pCi/g		*0.15*	3/15/11 11:42 p		327.3	GER11$1
								0.53			g	
AMERICIUM 241	***-4.94E-02***	U	1.4E-01	1.4E-01	2.34E-01	pCi/g		*-0.21*	3/15/11 11:42 p		327.3	GER11$1
								-0.69			g	
CO-60	***1.87E-01***		4.1E-02	4.1E-02	3.04E-02	pCi/g		*(6.1)*	3/15/11 11:42 p		327.3	GER11$1
							5.00E-02	*(9.2)*			g	
CS-137	***1.24E+00***		1.7E-01	1.7E-01	3.77E-02	pCi/g		*(32.8)*	3/15/11 11:42 p		327.3	GER11$1
							1.00E-01	*(14.7)*			g	
EU-152	***4.43E+00***		5.7E-01	5.7E-01	9.57E-02	pCi/g		*(46.3)*	3/15/11 11:42 p		327.3	GER11$1
							1.00E-01	*(15.6)*			g	
EU-154	***4.60E-01***		1.3E-01	1.3E-01	1.03E-01	pCi/g		*(4.4)*	3/15/11 11:42 p		327.3	GER11$1
							1.00E-01	*(7.)*			g	
EU-155	***-9.16E-03***	U	6.9E-02	6.9E-02	1.17E-01	pCi/g		*-0.08*	3/15/11 11:42 p		327.3	GER11$1
							1.00E-01	*-0.26*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9K1AD			**Report DB ID:** 9MFH9K10					
NI-63	***3.61E+01***		7.9E+00	9.8E+00	1.52E+01	pCi/g	88%	*(2.4)*	3/19/11 01:06 a		0.25	LSC3
						7.12E+00	3.00E+01	*(7.4)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9K1AH			**Report DB ID:** 9MFH9K10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:35:00 AM
Lot-Sample No.:	J1C100626-9	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK9	**COC No. :**	RC-110-045	**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
TC-99	***-2.69E-01***	U	2.6E-01	3.3E-01	6.43E-01	pCi/g	100%	*-0.42*	3/20/11 02:19 a		2.02	LSC3
						3.09E-01	1.50E+01	*-(1.6)*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9K1AG		**Report DB ID:**	9MFH9K10				
C-14	***1.16E-01***	U	1.9E-01	2.1E-01	4.60E-01	pCi/g	100%	*0.25*	3/16/11 10:02 a		5.008	LSC3
						2.17E-01	5.00E+01	*(1.1)*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9K1AE		**Report DB ID:**	9MFH9K10				
H-3	***8.73E-03***	U	8.1E-03	8.6E-03	1.92E-02	pCi/g	100%	*0.45*	3/19/11 12:42 a		99.8	LSC4
						9.15E-03	4.00E+02	*(2.)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9K1AA		**Report DB ID:**	9MFH9K10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:40:00 AM
Lot-Sample No.:	J1C100626-10	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL0	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9L1AC			**Report DB ID:** 9MFH9L10					
STRONTIUM	***1.72E-01***	U	1.1E-01	1.1E-01	2.06E-01	pCi/g	54%	*0.84*	3/21/11 03:25 p		6.01	GPC32A
						9.59E-02		*(3.)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9L1AF			**Report DB ID:** 9MFH9L10					
AG-108M	***-6.38E-03***	U	1.8E-02	1.8E-02	3.08E-02	pCi/g		*-0.21*	3/16/11 03:42 a		67.0	GER11$1
								-0.71			g	
AMERICIUM 241	***2.57E-02***	U	1.3E-01	1.3E-01	2.17E-01	pCi/g		*0.12*	3/16/11 03:42 a		67.0	GER11$1
								0.41			g	
CO-60	***3.26E-02***	U	2.9E-02	2.9E-02	5.99E-02	pCi/g		*0.54*	3/16/11 03:42 a		67.0	GER11$1
							5.00E-02	*(2.2)*			g	
CS-137	***3.28E-02***	U	2.6E-02	2.6E-02	4.96E-02	pCi/g		*0.66*	3/16/11 03:42 a		67.0	GER11$1
							1.00E-01	*(2.5)*			g	
EU-152	***3.40E-02***	U	5.3E-02	5.3E-02	9.68E-02	pCi/g		*0.35*	3/16/11 03:42 a		67.0	GER11$1
							1.00E-01	*(1.3)*			g	
EU-154	***3.83E-02***	U	9.7E-02	9.7E-02	1.82E-01	pCi/g		*0.21*	3/16/11 03:42 a		67.0	GER11$1
							1.00E-01	*0.79*			g	
EU-155	***-1.64E-02***	U	5.2E-02	5.2E-02	8.81E-02	pCi/g		*-0.19*	3/16/11 03:42 a		67.0	GER11$1
							1.00E-01	*-0.63*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9L1AD			**Report DB ID:** 9MFH9L10					
NI-63	***-7.04E+00***	U	5.7E+00	6.7E+00	1.52E+01	pCi/g	88%	*-0.46*	3/19/11 01:29 a		0.25	LSC3
						7.14E+00	3.00E+01	*-(2.1)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9L1AH			**Report DB ID:** 9MFH9L10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:40:00 AM
Lot-Sample No.:	J1C100626-10	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL0	**COC No. :**	RC-110-045	**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
TC-99	***-1.08E-01***	U	2.6E-01	3.4E-01	6.48E-01	pCi/g	100%	*-0.17*	3/20/11 04:25 a		2.01	LSC3
						3.11E-01	1.50E+01	*-0.63*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9L1AG		**Report DB ID:**	9MFH9L10				
C-14	***-2.35E-02***	U	1.8E-01	2.0E-01	4.57E-01	pCi/g	100%	*-0.05*	3/16/11 10:25 a		5.048	LSC3
						2.15E-01	5.00E+01	*-0.23*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9L1AE		**Report DB ID:**	9MFH9L10				
H-3	***-1.34E-02***	U	1.6E-02	1.7E-02	4.05E-02	pCi/g	100%	*-0.33*	3/19/11 02:05 a		115.0	LSC4
						1.93E-02	4.00E+02	*-(1.6)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9L1AA		**Report DB ID:**	9MFH9L10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **Comments:**

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:45:00 AM
Lot-Sample No.:	J1C100626-11	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL1	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9N1AC			**Report DB ID:** 9MFH9N10					
STRONTIUM	***3.02E+00***		2.7E-01	8.3E-01	2.03E-01	pCi/g	53%	*(14.8)*	3/21/11 03:25 p		6.0	GPC32B
						9.47E-02		*(7.3)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9N1AF			**Report DB ID:** 9MFH9N10					
AG-108M	***-2.04E-02***	U	2.5E-02	2.5E-02	4.02E-02	pCi/g		*-0.51*	3/16/11 03:42 a		364.4	GER14$1
								-(1.7)			g	
AMERICIUM 241	***-1.63E-02***	U	5.0E-02	5.0E-02	8.33E-02	pCi/g		*-0.2*	3/16/11 03:42 a		364.4	GER14$1
								-0.65			g	
CO-60	***1.01E-01***	U	3.4E-02	3.4E-02	6.58E-02	pCi/g		*(1.5)*	3/16/11 03:42 a		364.4	GER14$1
							5.00E-02	*(5.9)*			g	
CS-137	***1.06E+00***		1.7E-01	1.7E-01	5.22E-02	pCi/g		*(20.4)*	3/16/11 03:42 a		364.4	GER14$1
							1.00E-01	*(12.7)*			g	
EU-152	***2.90E+00***		4.0E-01	4.0E-01	1.36E-01	pCi/g		*(21.4)*	3/16/11 03:42 a		364.4	GER14$1
							1.00E-01	*(14.5)*			g	
EU-154	***2.87E-01***	U	1.5E-01	1.5E-01	1.92E-01	pCi/g		*(1.5)*	3/16/11 03:42 a		364.4	GER14$1
							1.00E-01	*(3.9)*			g	
EU-155	***7.48E-03***	U	8.5E-02	8.5E-02	1.41E-01	pCi/g		*0.05*	3/16/11 03:42 a		364.4	GER14$1
							1.00E-01	*0.18*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9N1AD			**Report DB ID:** 9MFH9N10					
NI-63	***3.34E+01***		8.3E+00	1.0E+01	1.65E+01	pCi/g	78%	*(2.)*	3/19/11 02:15 a		0.26	LSC3
						7.73E+00	3.00E+01	*(6.6)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9N1AH			**Report DB ID:** 9MFH9N10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:45:00 AM
Lot-Sample No.:	J1C100626-11	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL1	**COC No. :**	RC-110-045	**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
TC-99	***-2.45E-01***	U	2.6E-01	3.4E-01	6.49E-01	pCi/g	100%	*-0.38*	3/20/11 05:28 a		2.0	LSC3
						3.12E-01	1.50E+01	*-(1.4)*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9N1AG		**Report DB ID:** 9MFH9N10					
C-14	***3.40E-02***	U	1.9E-01	2.1E-01	4.58E-01	pCi/g	100%	*0.07*	3/16/11 11:11 a		5.037	LSC3
						2.16E-01	5.00E+01	*0.33*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9N1AE		**Report DB ID:** 9MFH9N10					
H-3	***6.00E-03***	U	6.1E-03	6.5E-03	1.42E-02	pCi/g	100%	*0.42*	3/19/11 04:51 a		115.5	LSC4
						6.78E-03	4.00E+02	*(1.9)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9NAA		**Report DB ID:** 9MFH9N10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:55:00 AM
Lot-Sample No.:	J1C100626-12	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL2	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9R1AC			**Report DB ID:** 9MFH9R10					
STRONTIUM	***6.76E-02***	U	9.5E-02	9.7E-02	2.08E-01	pCi/g	54%	*0.33*	3/21/11 03:25 p		6.01	GPC32C
						9.69E-02		*(1.4)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9R1AF			**Report DB ID:** 9MFH9R10					
AG-108M	***5.31E-03***	U	1.5E-02	1.5E-02	2.74E-02	pCi/g		*0.19*	3/16/11 03:43 a		352.3	GER7$1
								0.69			g	
AMERICIUM 241	***4.27E-02***	U	6.1E-02	6.1E-02	1.08E-01	pCi/g		*0.39*	3/16/11 03:43 a		352.3	GER7$1
								(1.4)			g	
CO-60	***4.16E-03***	U	1.9E-02	1.9E-02	3.60E-02	pCi/g		*0.12*	3/16/11 03:43 a		352.3	GER7$1
							5.00E-02	*0.43*			g	
CS-137	***-9.90E-03***	U	2.1E-02	2.1E-02	3.48E-02	pCi/g		*-0.28*	3/16/11 03:43 a		352.3	GER7$1
							1.00E-01	*-0.96*			g	
EU-152	***4.42E-02***	U	5.0E-02	5.0E-02	8.86E-02	pCi/g		*0.5*	3/16/11 03:43 a		352.3	GER7$1
							1.00E-01	*(1.8)*			g	
EU-154	***2.16E-02***	U	6.7E-02	6.7E-02	1.24E-01	pCi/g		*0.17*	3/16/11 03:43 a		352.3	GER7$1
							1.00E-01	*0.64*			g	
EU-155	***3.49E-02***	U	4.7E-02	4.7E-02	8.11E-02	pCi/g		*0.43*	3/16/11 03:43 a		352.3	GER7$1
							1.00E-01	*(1.5)*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9R1AD			**Report DB ID:** 9MFH9R10					
NI-63	***6.16E+00***	U	6.7E+00	7.8E+00	1.57E+01	pCi/g	89%	*0.39*	3/19/11 02:38 a		0.24	LSC3
						7.35E+00	3.00E+01	*(1.6)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9R1AH			**Report DB ID:** 9MFH9R10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:55:00 AM
Lot-Sample No.:	J1C100626-12	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL2	**COC No. :**	RC-110-045	**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
TC-99	***3.62E-02***	U	2.7E-01	3.5E-01	6.51E-01	pCi/g	100%	*0.06*	3/20/11 06:31 a		2.01	LSC3
						3.13E-01	1.50E+01	*0.2*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9R1AG		**Report DB ID:**	9MFH9R10				
C-14	***2.30E-02***	U	1.9E-01	2.1E-01	4.60E-01	pCi/g	100%	*0.05*	3/16/11 11:33 a		5.007	LSC3
						2.17E-01	5.00E+01	*0.22*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9R1AE		**Report DB ID:**	9MFH9R10				
H-3	***2.46E-03***	U	6.3E-03	6.7E-03	1.52E-02	pCi/g	100%	*0.16*	3/19/11 06:14 a		112.5	LSC4
						7.25E-03	4.00E+02	*0.73*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9R1AA		**Report DB ID:**	9MFH9R10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:50:00 AM
Lot-Sample No.:	J1C100626-13	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL3	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9T1AC			**Report DB ID:** 9MFH9T10					
STRONTIUM	***4.28E-01***		1.3E-01	1.7E-01	2.25E-01	pCi/g	53%	*(1.9)*	3/21/11 03:25 p		6.01	GPC32D
						1.05E-01		*(4.9)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9T1AF			**Report DB ID:** 9MFH9T10					
AG-108M	***3.32E-03***	U	1.4E-02	1.4E-02	2.44E-02	pCi/g		*0.14*	3/16/11 03:43 a		354.1	GER10$1
								0.47			g	
AMERICIUM 241	***-3.26E-02***	U	7.7E-02	7.7E-02	1.27E-01	pCi/g		*-0.26*	3/16/11 03:43 a		354.1	GER10$1
								-0.84			g	
CO-60	***-6.09E-03***	U	1.7E-02	1.7E-02	2.92E-02	pCi/g		*-0.21*	3/16/11 03:43 a		354.1	GER10$1
							5.00E-02	*-0.72*			g	
CS-137	***-3.87E-04***	U	1.7E-02	1.7E-02	2.83E-02	pCi/g		*-0.01*	3/16/11 03:43 a		354.1	GER10$1
							1.00E-01	*-0.05*			g	
EU-152	***-1.70E-02***	U	1.2E-01	1.2E-01	7.62E-02	pCi/g		*-0.22*	3/16/11 03:43 a		354.1	GER10$1
							1.00E-01	*-0.29*			g	
EU-154	***-1.36E-02***	U	5.2E-02	5.2E-02	8.93E-02	pCi/g		*-0.15*	3/16/11 03:43 a		354.1	GER10$1
							1.00E-01	*-0.53*			g	
EU-155	***-4.66E-03***	U	5.5E-02	5.5E-02	9.28E-02	pCi/g		*-0.05*	3/16/11 03:43 a		354.1	GER10$1
							1.00E-01	*-0.17*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9T1AD			**Report DB ID:** 9MFH9T10					
NI-63	***-8.78E+00***	U	5.9E+00	6.9E+00	1.59E+01	pCi/g	88%	*-0.55*	3/19/11 03:01 a		0.24	LSC3
						7.46E+00	3.00E+01	*-(2.5)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9T1AH			**Report DB ID:** 9MFH9T10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:50:00 AM
Lot-Sample No.:	J1C100626-13	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL3	**COC No. :**	RC-110-045	**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
TC-99	***3.04E-02***	U	2.7E-01	3.6E-01	6.56E-01	pCi/g	100%	*0.05*	3/20/11 07:34 a		1.99	LSC3
						3.15E-01	1.50E+01	*0.17*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9T1AG		**Report DB ID:**	9MFH9T10				
C-14	***6.63E-02***	U	1.9E-01	2.1E-01	4.58E-01	pCi/g	100%	*0.14*	3/16/11 11:56 a		5.032	LSC3
						2.16E-01	5.00E+01	*0.64*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9T1AE		**Report DB ID:**	9MFH9T10				
H-3	***-1.76E-03***	U	6.4E-03	6.9E-03	1.66E-02	pCi/g	100%	*-0.11*	3/19/11 07:36 a		107.5	LSC4
						7.91E-03	4.00E+02	*-0.51*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9T1AA		**Report DB ID:**	9MFH9T10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	**TestAmerica**	**SDG:**	JP0118	**Collection Date:**	3/10/2011 10:00:00 AM
Lot-Sample No.:	**J1C100626-14**	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	**J1FJL4**	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9V1AC			**Report DB ID:** 9MFH9V10					
STRONTIUM	***1.09E-02***	U	8.8E-02	8.8E-02	2.06E-01	pCi/g	53%	*0.05*	3/21/11 05:04 p		5.99	GPC32A
						9.62E-02		*0.25*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9V1AF			**Report DB ID:** 9MFH9V10					
AG-108M	***-3.27E-04***	U	9.4E-03	9.4E-03	1.64E-02	pCi/g		*-0.02*	3/16/11 07:06 a		339.8	GER11$1
								-0.07			g	
AMERICIUM 241	***1.67E-03***	U	9.0E-02	9.0E-02	1.49E-01	pCi/g		*0.01*	3/16/11 07:06 a		339.8	GER11$1
								0.04			g	
CO-60	***-2.29E-03***	U	1.4E-02	1.4E-02	2.56E-02	pCi/g		*-0.09*	3/16/11 07:06 a		339.8	GER11$1
							5.00E-02	*-0.32*			g	
CS-137	***3.54E-03***	U	1.3E-02	1.3E-02	2.35E-02	pCi/g		*0.15*	3/16/11 07:06 a		339.8	GER11$1
							1.00E-01	*0.53*			g	
EU-152	***1.05E-02***	U	3.3E-02	3.3E-02	5.76E-02	pCi/g		*0.18*	3/16/11 07:06 a		339.8	GER11$1
							1.00E-01	*0.63*			g	
EU-154	***1.14E-02***	U	4.5E-02	4.5E-02	8.18E-02	pCi/g		*0.14*	3/16/11 07:06 a		339.8	GER11$1
							1.00E-01	*0.5*			g	
EU-155	***4.87E-02***	U	3.7E-02	3.7E-02	6.65E-02	pCi/g		*0.73*	3/16/11 07:06 a		339.8	GER11$1
							1.00E-01	*(2.6)*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9V1AD			**Report DB ID:** 9MFH9V10					
NI-63	***-7.09E+00***	U	5.3E+00	6.3E+00	1.43E+01	pCi/g	94%	*-0.5*	3/19/11 03:24 a		0.25	LSC3
						6.70E+00	3.00E+01	*-(2.3)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9V1AH			**Report DB ID:** 9MFH9V10					

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
rptSTLRchSample
V5.2.12 A2002

FORM I

SAMPLE RESULTS

Date: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 10:00:00 AM
Lot-Sample No.:	J1C100626-14	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL4	**COC No. :**	RC-110-045	**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
TC-99	***-1.90E-01***	U	2.6E-01	3.4E-01	6.46E-01	pCi/g	100%	*-0.29*	3/20/11 08:38 a		2.01	LSC3
						3.11E-01	1.50E+01	*-(1.1)*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9V1AG		**Report DB ID:** 9MFH9V10					
C-14	***1.35E-01***	U	1.9E-01	2.1E-01	4.60E-01	pCi/g	100%	*0.29*	3/16/11 12:19 p		5.004	LSC3
						2.17E-01	5.00E+01	*(1.3)*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9V1AE		**Report DB ID:** 9MFH9V10					
H-3	***5.11E-03***	U	7.4E-03	7.8E-03	1.76E-02	pCi/g	100%	*0.29*	3/19/11 08:59 a		94.7	LSC4
						8.39E-03	4.00E+02	*(1.3)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9V1AA		**Report DB ID:** 9MFH9V10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 10:05:00 AM
Lot-Sample No.:	J1C100626-15	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL5	**COC No. :**	RC-110-045	**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: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFH9W1AC			**Report DB ID:** 9MFH9W10					
STRONTIUM	***4.23E+00***		3.0E-01	1.1E+00	1.87E-01	pCi/g	57%	*(22.7)*	3/21/11 05:04 p		6.01	GPC32B
						8.68E-02		*(7.4)*			g	
Batch: 1070186	GAMMA_GS			**Work Order:** MFH9W1AF			**Report DB ID:** 9MFH9W10					
AG-108M	***1.90E-02***	U	9.3E-02	9.3E-02	1.55E-01	pCi/g		*0.12*	3/16/11 07:06 a		359.9	GER14$1
								0.41			g	
AMERICIUM 241	***2.59E-01***	U	1.2E-01	1.2E-01	1.99E-01	pCi/g		*(1.3)*	3/16/11 07:06 a		359.9	GER14$1
								(4.3)			g	
CO-60	***2.87E-01***		6.6E-02	6.6E-02	5.03E-02	pCi/g		*(5.7)*	3/16/11 07:06 a		359.9	GER14$1
							5.00E-02	*(8.7)*			g	
CS-137	***7.35E+01***		9.9E+00	9.9E+00	1.07E-01	pCi/g		*(685.5)*	3/16/11 07:06 a		359.9	GER14$1
							1.00E-01	*(14.9)*			g	
EU-152	***9.85E+00***		1.3E+00	1.3E+00	4.17E-01	pCi/g		*(23.6)*	3/16/11 07:06 a		359.9	GER14$1
							1.00E-01	*(15.)*			g	
EU-154	***8.63E-01***		1.9E-01	1.9E-01	1.70E-01	pCi/g		*(5.1)*	3/16/11 07:06 a		359.9	GER14$1
							1.00E-01	*(9.)*			g	
EU-155	***-6.97E-03***	U	2.1E-01	2.1E-01	3.38E-01	pCi/g		*-0.02*	3/16/11 07:06 a		359.9	GER14$1
							1.00E-01	*-0.07*			g	
Batch: 1070188	NI63_LSC			**Work Order:** MFH9W1AD			**Report DB ID:** 9MFH9W10					
NI-63	***2.83E+02***		1.4E+01	3.1E+01	1.39E+01	pCi/g	96%	*(20.3)*	3/19/11 03:47 a		0.25	LSC3
						6.55E+00	3.00E+01	*(18.5)*			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH9W1AH			**Report DB ID:** 9MFH9W10					

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: 29-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 10:05:00 AM
Lot-Sample No.:	J1C100626-15	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJL5	**COC No. :**	RC-110-045	**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
TC-99	***1.77E-01***	U	2.7E-01	3.6E-01	6.48E-01	pCi/g	100%	*0.27*	3/20/11 09:41 a		2.03	LSC3
						3.12E-01	1.50E+01	*0.99*			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFH9W1AG		**Report DB ID:**	9MFH9W10				
C-14	***4.62E-01***		2.1E-01	2.3E-01	4.58E-01	pCi/g	100%	*(1.)*	3/16/11 12:42 p		5.032	LSC3
						2.16E-01	5.00E+01	*(4.)*			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFH9W1AE		**Report DB ID:**	9MFH9W10				
H-3	***2.14E-02***		8.1E-03	8.6E-03	1.79E-02	pCi/g	100%	*(1.2)*	3/19/11 10:22 a		115.3	LSC4
						8.55E-03	4.00E+02	*(5.)*			g	
Batch: 1075395	7196_CR6			**Work Order:**	MFH9W1AA		**Report DB ID:**	9MFH9W10				
HEXCHROME	***1.07E+00***			0.0E+00	1.54E-01	mg/kg	N/A	*(7.)*	3/16/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 13 **Comments:**

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: 29-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:00:00 AM
Lot-Sample No.:	J1C100626-1	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK1	**COC No. :**	RC-110-045	**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: 1075395	7196_CR6			**Work Order:** MFH641AL		**Report DB ID:** MFH641ER			**Orig Sa DB ID:** 9MFH6410			
HEXCHROME	1.54E-01	U		0.0E+00	1.54E-01	mg/kg	N/A	(1.)	3/16/11		2.5	
	1.55E-01	U	**RPD**	**0.6**		3.50E-01		N/A			g	

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

TestAmerica rptSTLRchDupV5.2 .12 A2002

RPD - Relative Percent Difference.

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

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

FORM II

Date: 29-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0118	Collection Date:	3/10/2011 9:00:00 AM
Lot-Sample No.:	J1C100626-1	Report No. :	46023	Received Date:	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK1 DUP	COC No. :	RC-110-045	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: 1070185	SRTOT_SEP_PRECIP_GPC			Work Order: MFH641AJ		Report DB ID: MFH641JR			Orig Sa DB ID: 9MFH6410			
STRONTIUM	1.45E-01	U	1.0E-01	1.1E-01	2.12E-01	pCi/g	54%	0.69	3/21/11 03:25 p		6.01	GPC26B
	2.75E-01		RPD 61.8					(2.6)			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

FORM II

Date: 29-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:05:00 AM
Lot-Sample No.:	J1C100626-2	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK2 DUP	**COC No. :**	RC-110-045	**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: 1070186	GAMMA_GS			**Work Order:** MFH7X1AJ		**Report DB ID:** MFH7X1JR			**Orig Sa DB ID:** 9MFH7X10			
AG-108M	-1.22E-02	U	1.8E-02	1.8E-02	3.07E-02	pCi/g		-0.4	3/14/11 11:54 p		66.9	GER11$1
	1.17E-02	U	**RPD**	**-11233.1**				-(1.3)			g	
AMERICIUM 241	3.65E-02	U	1.4E-01	1.4E-01	2.35E-01	pCi/g		0.16	3/14/11 11:54 p		66.9	GER11$1
	-3.49E-03	U	**RPD**	**242.2**				0.53			g	
CO-60	-1.66E-03	U	2.8E-02	2.8E-02	5.20E-02	pCi/g		-0.03	3/14/11 11:54 p		66.9	GER11$1
	1.00E-02	U	**RPD**	**279.5**		5.00E-02		-0.12			g	
CS-137	1.61E-02	U	2.9E-02	2.9E-02	5.30E-02	pCi/g		0.3	3/14/11 11:54 p		66.9	GER11$1
	4.82E-02	U	**RPD**	**99.7**		1.00E-01		(1.1)			g	
EU-152	1.20E-02	U	5.6E-02	5.6E-02	9.95E-02	pCi/g		0.12	3/14/11 11:54 p		66.9	GER11$1
	6.74E-02	U	**RPD**	**139.7**		1.00E-01		0.42			g	
EU-154	-1.30E-02	U	9.6E-02	9.6E-02	1.71E-01	pCi/g		-0.08	3/14/11 11:54 p		66.9	GER11$1
	-2.30E-02	U	**RPD**	**-55.6**		1.00E-01		-0.27			g	
EU-155	-3.14E-02	U	5.4E-02	5.4E-02	8.96E-02	pCi/g		-0.35	3/14/11 11:54 p		66.9	GER11$1
	-1.61E-02	U	**RPD**	**-64.1**		1.00E-01		-(1.2)			g	

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

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

TestAmerica Laboratories, Inc.

FORM II

Date: 29-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:25:00 AM
Lot-Sample No.:	J1C100626-3	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK3 DUP	**COC No. :**	RC-110-045	**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: 1070192	C14_CHEM_LSC			**Work Order:** MFH721AJ		**Report DB ID:** MFH721JR			**Orig Sa DB ID:** 9MFH7210			
C-14	1.30E-02	U	1.9E-01	2.1E-01	4.60E-01	pCi/g	100%	0.03	3/16/11 07:45 a		5.008	LSC3
	-2.30E-01	U	**RPD**	**-223.9**		5.00E+01		0.13			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:** MFH721AK		**Report DB ID:** MFH721KR			**Orig Sa DB ID:** 9MFH7210			
H-3	6.45E-03	U	7.4E-03	7.8E-03	1.73E-02	pCi/g	100%	0.37	3/18/11 04:25 p		94.4	LSC4
	-9.61E-04	U	**RPD**	**270.0**		4.00E+02		(1.6)			g	

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

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

FORM II

Date: 29-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:10:00 AM
Lot-Sample No.:	J1C100626-4	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	J1FJK4 DUP	**COC No. :**	RC-110-045	**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: 1070190	TC99_ETVDSK_LSC			**Work Order:** MFH731AK		**Report DB ID:** MFH731KR			**Orig Sa DB ID:** 9MFH7310			
TC-99	-1.04E-01	U	2.6E-01	3.4E-01	6.41E-01	pCi/g	100%	-0.16	3/19/11 09:04 p		2.01	LSC3
	1.04E-01	U	**RPD**	**-78400.7**		1.50E+01		-0.61			g	

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

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

FORM II

Date: 29-Mar-11

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	JP0118	**Collection Date:**	3/10/2011 9:15:00 AM
Lot-Sample No.:	**J1C100626-5**	**Report No. :**	46023	**Received Date:**	3/10/2011 3:15:00 PM
Client Sample ID:	**J1FJK5 DUP**	**COC No. :**	RC-110-045	**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: 1070188	NI63_LSC			**Work Order:** MFH751AJ		**Report DB ID:** MFH751JR			**Orig Sa DB ID:** 9MFH7510			
NI-63	4.60E+01		8.3E+00	1.1E+01	1.51E+01	pCi/g	85%	(3.)	3/18/11 11:35 p		0.26	LSC3
	3.66E+01		**RPD**	**22.6**		3.00E+01		(8.7)			g	

No. of Results: 1 **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.**

FORM II

BLANK RESULTS

Date: 29-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0118

Report No. : 46023

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: 1075395	7196_CR6			**Work Order:**	MFQM1AA		**Report DB ID:**	MFQXM1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/16/11		2.5	
								N/A			g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFJH31AA		**Report DB ID:**	MFJH31AB				
C-14	-4.97E-04	U	4.6E-03	5.1E-03	1.15E-02	pCi/g	100%	-0.04	3/16/11 01:05 p		200.0	LSC3
					5.43E-03	5.00E+01		-0.19			g	
Batch: 1070188	NI63_LSC			**Work Order:**	MFJG91AA		**Report DB ID:**	MFJG91AB				
NI-63	-1.22E+00	U	1.0E+01	1.2E+01	2.60E+01	pCi/g	54%	-0.05	3/19/11 04:09 a		0.24	LSC3
					1.22E+01	3.00E+01		-0.2			g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:**	MFJHL1AA		**Report DB ID:**	MFJHL1AB				
TC-99	-2.40E-01	U	2.6E-01	3.4E-01	6.47E-01	pCi/g	100%	-0.37	3/20/11 10:44 a		2.02	LSC3
					3.11E-01	1.50E+01		-(1.4)			g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFJJA1AA		**Report DB ID:**	MFJJA1AB				
H-3	-9.44E-03	U	1.4E-02	1.5E-02	3.57E-02	pCi/g	100%	-0.26	3/19/11 11:45 a		93.3	LSC4
					1.70E-02	4.00E+02		-(1.2)			g	
Batch: 1070186	GAMMA_GS			**Work Order:**	MFJG51AA		**Report DB ID:**	MFJG51AB				
AG-108M	6.18E-04	U	9.4E-03	9.4E-03	1.65E-02	pCi/g		0.04	3/16/11 07:06 a		348.0	GER10$1
								0.13			g	
AMERICIUM 241	-3.43E-02	U	4.5E-02	4.5E-02	7.31E-02	pCi/g		-0.47	3/16/11 07:06 a		348.0	GER10$1
								-(1.5)			g	
CO-60	-5.08E-03	U	9.2E-03	9.2E-03	1.58E-02	pCi/g		-0.32	3/16/11 07:06 a		348.0	GER10$1
						5.00E-02		-(1.1)			g	

TestAmerica
rptSTLRchBlank
V5.2.12 A2002

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

FORM II

BLANK RESULTS

Date: 29-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0118

Report No. : 46023

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
CS-137	-4.51E-03	U	1.1E-02	1.1E-02	1.87E-02	pCi/g		-0.24	3/16/11 07:06 a		348.0	GER10$1
						1.00E-01		-0.81			g	
EU-152	1.30E-03	U	3.5E-02	3.5E-02	5.68E-02	pCi/g		0.02	3/16/11 07:06 a		348.0	GER10$1
						1.00E-01		0.08			g	
EU-154	4.80E-03	U	2.9E-02	2.9E-02	5.51E-02	pCi/g		0.09	3/16/11 07:06 a		348.0	GER10$1
						1.00E-01		0.33			g	
EU-155	-1.18E-03	U	3.1E-02	3.1E-02	5.30E-02	pCi/g		-0.02	3/16/11 07:06 a		348.0	GER10$1
						1.00E-01		-0.08			g	
Batch: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MFJGW1AA		**Report DB ID:**	MFJGW1AB				
STRONTIUM	2.35E-02	U	6.2E-02	6.2E-02	1.41E-01	pCi/g	93%	0.17	3/21/11 05:04 p		5.99	GPC32D
					6.61E-02			0.75			g	

No. of Results: 13 **Comments:**

TestAmerica
rptSTLRchBlank
V5.2.12 A2002

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

FORM II

LCS RESULTS

Date: 29-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0118

Report No. : 46023

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: 1075395	7196_CR6			**Work Order:**	MFQM1AC		**Report DB ID:**	MFQXM1AC					
HEXCHROME	1.78E+01	U		0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		89%	3/16/11	2.5	
							Rec Limits:			-0.1		g	
Batch: 1070192	C14_CHEM_LSC			**Work Order:**	MFJH31AC		**Report DB ID:**	MFJH31CS					
C-14	7.68E+00		4.3E-01	5.4E-01	4.62E-01	pCi/g	100%	7.54E+00	1.3E-01	102%	3/16/11 01:27 p	5.0	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1070188	NI63_LSC			**Work Order:**	MFJG91AC		**Report DB ID:**	MFJG91CS					
NI-63	5.61E+02		2.0E+01	5.7E+01	1.50E+01	pCi/g	93%	6.36E+02	1.1E+01	88%	3/19/11 04:32 a	0.24	LSC3
							Rec Limits:	70	130	-0.1		g	
Batch: 1070190	TC99_ETVDSK_LSC			**Work Order:**	MFJHL1AC		**Report DB ID:**	MFJHL1CS					
TC-99	2.16E+02		2.0E+00	1.2E+01	6.52E-01	pCi/g	100%	2.29E+02	9.3E-01	94%	3/20/11 11:47 a	1.99	LSC3
							Rec Limits:	70	130	-0.1		g	
Batch: 1070195	906.0_H3_LSC			**Work Order:**	MFJJA1AC		**Report DB ID:**	MFJJA1CS					
H-3	3.68E-01		3.1E-02	3.4E-02	4.73E-02	pCi/g	100%	3.79E-01	1.1E-02	97%	3/19/11 01:08 p	71.8	LSC4
							Rec Limits:	70	130	0.0		g	
Batch: 1070186	GAMMA_GS			**Work Order:**	MFJG51AC		**Report DB ID:**	MFJG51CS					
CS-137	1.13E+00		1.6E-01	1.6E-01	4.08E-02	pCi/g		1.09E+00	1.1E-02	104%	3/16/11 07:07 a	350.1	GER7$1
							Rec Limits:	70	130	0.0		g	
RA-226	9.84E-01		1.7E-01	1.7E-01	6.61E-02	pCi/g		1.14E+00	1.2E-02	86%	3/16/11 07:07 a	350.1	GER7$1
							Rec Limits:	70	130	-0.1		g	
RA-228	1.02E+00		2.1E-01	2.1E-01	1.17E-01	pCi/g		9.46E-01	9.8E-03	108%	3/16/11 07:07 a	350.1	GER7$1
							Rec Limits:	70	130	0.1		g	

TestAmerica
rptSTLRchLcs
V5.2.12 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 II

LCS RESULTS

Date: 29-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0118

Report No. : 46023

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
U-238	1.14E+00		1.7E-01	1.7E-01	7.72E-02	pCi/g		1.20E+00	1.2E-02	95%	3/16/11 07:07 a	350.1	GER7$1
							Rec Limits:	70	130	-0.1		g	
Batch: 1070185	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MFJGW1AC		**Report DB ID:**	MFJGW1CS					
STRONTIUM	1.07E+00		1.3E-01	3.1E-01	1.37E-01	pCi/g	88%	1.13E+00	3.1E-02	95%	3/21/11 05:04 p	6.02	GPC32C
							Rec Limits:	70	130	-0.1		g	

No. of Results: 10 **Comments:**

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

rptSTLRchLcs
V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 29-Mar-11

Lab Name: TestAmerica **SDG:** JP0118

Lot-Sample No.: J1C100626-1, J1FJK1 **Report No. :** 46023 **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: 1075395	Work Order: MFH641AK			Report DB ID: MFH641CW			Orig Sa DB ID: 9MFH6410					
HEXCHROME	9.92E+00			0.0E+00	1.54E-01	mg/kg	N/A	86.39%	1.15E+01	3/16/11	2.5	7196_CR6
	1.55E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 A2002

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

FORM II

MATRIX SPIKE RESULTS

Date: 29-Mar-11

Lab Name: TestAmerica **SDG:** JP0118

Lot-Sample No.: J1C100626-4, J1FJK4 **Report No. :** 46023 **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: 1070190	**Work Order:** MFH731AJ			**Report DB ID:** MFH731JW			**Orig Sa DB ID:** 9MFH7310					
TC-99	3.78E+01		9.0E-01	2.5E+00	6.85E-01	pCi/g	100%	55.62%	6.80E+01	3/19/11 08:01 p	1.99	TC99_ETVDSK_LSC
	1.04E-01								3.0E-01		g	LSC3

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 A2002

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/22/2011 9:09:21 AM

Lot No., Due Date: J1C100626; 03/17/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1070185; RSRTOT SrTot by GPC
SDG, Matrix: JP0118; SOIL

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

6.0 Comments on any No response:

First Level Lisa Anderson **Date** 3/22/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1070185

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

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

Second Level Review: [signature] Date: 3/22/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/29/2011 10:27:43 AM

Lot No., Due Date: J1C100626; 03/17/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1070190; RTC99 Tc-99 by LSC
SDG, Matrix: JP0118; 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 Lisa Anderson **Date** 3/29/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1070190

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 = 15.0pCi/g

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/17/2011 10:40:17 AM

Lot No., Due Date: J1C100626; 03/17/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1070186; RGAMMA Gamma by GER
SDG, Matrix: JP0118; 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:
NCM 10-17746

First Level Lisa Christenson Date 3/17/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1070186

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?	✓ 3/17/11		
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 #: 10-17746

Second Level Review: [signature] Date: 3/17/11

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17746**
NCM Initiated By: Lisa Antonson
Date Opened: 03/17/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: Gamma by GER
Lot #'s (Sample #'s): J1C100626 (1,10,11,12,13,14,15,2,3,4,5, 6,7,8,9),
QC Batches: 1070186,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	03/17/2011	CRDL not met for all analytes due to reduced count time for priority processing and smaller volumes received.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	03/17/2011	None

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note

Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 3/28/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/21/2011 3:56:00 PM

Lot No., Due Date: J1C100626; 03/17/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1070195; RTRITIUM H-3 by LSC
SDG, Matrix: JP0118; SOIL

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Lisa Anderson **Date** 3/21/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1070195

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 = 10.0pci/g

Second Level Review: [signature] Date: 3/21/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/17/2011 9:08:26 AM

Lot No., Due Date: J1C100626; 03/17/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1070192; RC14 C-14 by LSC
SDG, Matrix: JP0118; SOIL

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Lisa Anderson Date 3/17/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 107092

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

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

Second Level Review: [signature] Date: 5/17/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/24/2011 10:37:20 AM

Lot No., Due Date: J1C100626; 03/17/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1070188; RNI63 NI-63 by LSC
SDG, Matrix: JP0118; SOIL

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

6.0 Comments on any No response:
NCM 10-17824

First Level Lisa Quiterson Date 3/24/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1070188

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 = 30 pCi/g
See NCM #: 10-17824

Second Level Review: [signature] Date: 3/24/1[illegible]

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17824**
NCM Initiated By: Lisa Antonson
Date Opened: 03/24/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: Ni-63 by LSC
Lot #'s (Sample #'s): J1C100626 (1,10,11,12,13,14,15,2,3,4,5, 6,7,8,9),
QC Batches: 1070188,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	03/24/2011	For samples MFH9V, MFH9W and MEJG9 (blank and LCS) the CCV was out on the original count. It was recounted, and there was no CCV,CCB to close the run. They were recounted on 03/23/11 with good results and the yields corrected and recalculated.
Lisa Antonson	03/24/2011	

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	03/24/2011	The samples were rerun.
Lisa Antonson	03/24/2011	Correction: The samples were recounted, not rerun.

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: 3/24/2011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **1075395**

Lab Sample Numbers or SDG: **JP0118**

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: _____ Date: 3-17-11

Second-Level Review: _____ Date: 3/18/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-045	Page 1 of 3

Collector: S. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-H Burial Grounds Remaining Sites - Soil In-Process	Sampling Location: 132-H-3		SAF No.: RC-110
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: 0132H32600	Method of Shipment: Gov. Vehicle — Hand Deliver
Shipped To: EBERLINE SERVICES / LIONVILLE — TestAmerica Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Possible~~ RAD <DOT
TRE 3-10-11

SDG# JP0118
Lot# J1C100626
Due: 3-17-11

Special Handling and/or Storage
Cool at 4 deg C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None	
Type of Container	G/P	G/P	G/P	aG	aG	G/P	G/P	G/P	G/P	TRE 3-10-11
No. of Container(s)	1	1	0	1	0	1	0	0	0	
Volume	60mL	60mL	60mL	60mL	60mL	500mL	60mL	60mL	500mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions. JKG 3-10-11	Chromium Hex - 7196	See item (2) in Special Instructions.	PCBs - 8082 JKG 3-10-11	PAHs - 8310	See item (3) in Special Instructions.	Carbon-14; Tritium - H3 Low Level Soil	Nickel-63; Strontium-89,90 -- Total Sr	Tc-99	

Sample No.	Matrix *	Sample Date	Sample Time									
J1FJK1	SOIL	3-10-11	0900		X			MFH64	X	X	X	X
J1FJK2	SOIL	3-10-11	0905		X			MFH7X	X	X	X	X
J1FJK3	SOIL	3-10-11	0925		X			MFH72	X	X	X	X
J1FJK4	SOIL	3-10-11	0910		X			MFH73	X	X	X	X
J1FJK5	SOIL	3-10-11	0915		X			MFH75	X	X	X	X

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3/10/11 1330	J.R. Eberlson	3-10-11 1330
J.R. Eberlson	3-10-11 1430	A Freier	3-10-11 1430
A. Freier	3-10-11 1515	TAIR	3/10/11 1515

J1C100626

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) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}; pH (Soil) - 9045 {pH Measurement}
(3) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable} and all RAD analysis

JP0118

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

REVIEWED BY
DATE 3-10-11

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-045	Page 2 of 3

Collector: J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B TRE 3-10-11	Data Turnaround: ~~21~~ 7 Days TRE 3-10-11		
Project Designation: 100-H Burial Grounds Remaining Sites - Soil In-Process	Sampling Location: 132-H-3		SAF No.: RC-110
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: 0132H32600	Method of Shipment: Gov. Vehicle — Hand Deliver
Shipped To: EBERLINE SERVICES / LIONVILLE (Test America Richland)	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Possible~~ RAD <DOT
TRE 3-10-11

SDG#JP0118
Lot # J1C100626
Due 3.17.11

Special Handling and/or Storage

Cool at 4 deg C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None		
Type of Container	G/P	G/P	G/P	aG	aG	G/P	G/P	G/P	G/P		
No. of Container(s)	1	1	0	1	0	1	0	0	0		TRE 3-10-11
Volume	60mL	60mL	60mL	60mL	60mL	500mL	60mL	60mL	500mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions. JZ 3/10/11	Chromium Hex - 7196	See item (2) in Special Instructions.	PCBs - 8082 JZ 3/10/11	PAHs - 8310	See item (3) in Special Instructions.	Carbon-14; Tritium - H3 Low Level Soil	Nickel-63; Strontium-89,90 – Total Sr	Tc-99		
Sample No. / Matrix * / Sample Date / Sample Time											
J1FJK6 / SOIL / 3-10-11 / 0908		X			MFH9G	X	X	X	X		
J1FJK7 / SOIL / 3-10-11 / 0920		X			MFH9H	X	X	X	X		
J1FJK8 / SOIL / 3-10-11 / 0930		X			MFH9J	X	X	X	X		
J1FJK9 / SOIL / 3-10-11 / 0935		X			MFH9K	X	X	X	X		
J1FJL0 / SOIL / 3-10-11 / 0940		X			MFH9L	X	X	X	X		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J. Kuepfer	3/10/11 1330	TR Edmondson	3-10-11 1330
TR Edmondson	3-10-11 1430	A. Freier	3-10-11 1430
A. Freier	3-10-11 1515	Lucas W. Vazquez TALR	2/10/11 1515

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) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}; pH (Soil) - 9045 {pH Measurement}
(3) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable} and all RAD analysis. QVO 3-10-11

JP0118

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

REVIEWED BY EB DATE 3-18-11

WCH-EE-011

TestAmerica Laboratories, Inc.

80

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-045	Page 3 of 3

Collector: J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B TRE 3-10-11	Data Turnaround: ~~21~~ Days 7 TRE 3-10-11		
Project Designation: 100-H Burial Grounds Remaining Sites - Soil In-Process	Sampling Location: 132-H-3		SAF No.: RC-110
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: 0132H32600	Method of Shipment: Gov. Vehicle — Hand Deliver
Shipped To: EBERLINE SERVICES / LIONVILLE — Test America Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Possible~~ RAD <DOT
TRE 3-10-11

SDG # JP0118
Lot # J1C100626
Due 3-17-11

Special Handling and/or Storage

Cool at 4 deg C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None	None		
Type of Container	G/P	G/P	G/P	aG	aG	G/P	G/P	G/P	G/P	TRE 3-10-11	
No. of Container(s)	1	1	0	1	0	1	0	0	0		
Volume	60mL	60mL	60mL	60mL	60mL	500mL	60mL	60mL	500mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions. JRE 3-10-11	Chromium Hex - 7196	See item (2) in Special Instructions.	PCBs - 8082 JRE 3-10-11	PAHs - 8310	See item (3) in Special Instructions.	Carbon-14; Tritium - H3 Low Level Soil	Nickel-63; Strontium-89,90 – Total Sr	Tc-99		
Sample No.	Matrix *	Sample Date	Sample Time				CK 3-11-11				
J1FJL1	SOIL	3-10-11	0945		X		MFH9M ~~MFH76~~	X	X	X	X	
J1FJL2	SOIL	3-10-11	0955		X		MFH9R ~~MFH78~~	X	X	X	X	
J1FJL3	SOIL	3-10-11	0950		X		MFH9T ~~MFH8A~~	X	X	X	X	
J1FJL4	SOIL	3-10-11	1000		X		MFH9V ~~MFH8E~~	X	X	X	X	
J1FJL5	SOIL	3-10-11	1005		X		MFH9W	X	X	X	X	

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: J. Kuepfer / J.R. Edmondson	3/10/11 1330	J.R. Edmondson / J.R. Edmondson	3-10-11 1330
Relinquished By/Removed From: J.R. Edmondson / J.R. Edmondson	3-10-11 1430	Received By/Stored In: A. Freier / A. Freier	1430 3-10-11
Relinquished By/Removed From: WCH A. Freier / A. Freier	3-10-11 1515	Received By/Stored In: [illegible] TAL	1515 3/10/11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

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) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}; pH (Soil) - 9045 {pH Measurement}
(3) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable} and all RAD analysis

JPO 3-10-11

JP0118

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

REVIEWED BY JRE DATE 3-10-11

WCH-EE-011

Apex™

Analysis Report for RCF26688

J1D586 SAF:RC-110 100H/132-H-3

Non-Reg

Samples J1FJK1 — J1FJK7

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF26688
Sample Description	: J1D586 SAF:RC-110 100H/132-H-3
Sample Type	: 80g pillbox
Sample Size	: 7.000E+01 grams
Facility	: Default
Sample Taken On	: 1/11/2011 10:22:00AM
Acquisition Started	: 1/11/2011 3:36:21PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTWHITE
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.5 seconds
Dead Time	: 0.01 %
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	: 3/10/2010
Efficiency Calibration Used Done On	: 3/12/2010
Efficiency Calibration Description	: PGTWHITE 80g PB 031210 EffCal SN80399A-238
Sample Number	: 10386

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.999	1.67E+01	2.92E+00	
PB-212		0.707	7.06E-01	1.37E-01	
RA-226d	@	0.619	5.23E-01	1.38E-01	
TH-232d		0.428	3.72E-01	1.46E-01	

Apex™

Analysis Report for RCF26965

J1DXP6 SAF-RC-110 100H/132H-3 SIP

Non-Reg J1FJK8 – J1FJLS

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF26965
Sample Description	: J1DXP6 SAF-RC-110 100H/132H-3 SIP
Sample Type	: 50g pillbox
Sample Size	: 4.900E+01 grams
Facility	: Default
Sample Taken On	: 2/7/2011 3:00:00PM
Acquisition Started	: 2/8/2011 8:36:46AM
Procedure	: 50 Gram Pill Box
Operator	: RCT
Detector Name	: GEA2703
Geometry	: 50 ml Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3601.7 seconds
Dead Time	: 0.05 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 2/2/2011
Efficiency Calibration Used Done On	: 2/2/2011
Efficiency Calibration Description	: GEA2703 50gPB EC 020211 SN82751A-23/8
Sample Number	: 11327

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.994	1.41E+01	3.06E+00	
CS-137	1.000	1.89E+00	3.00E-01	
EU-152	0.808	4.31E+00	3.18E-01	

Analysis Report for RCF26965

J1DXP6 SAF-RC-110 100H/132H-3 SIP

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

UNIDENTIFIED PEAKS

Peak Locate Performed on : 2/8/2011 9:36:51AM
Peak Locate From Channel : 40
Peak Locate To Channel : 4096

	Peak No.	Energy (keV)	Peak Size (CPS)	Peak CPS (%) Uncertainty	Peak Type	Tolerance Nuclide
m	3	76.91 Pb-212/214	2.04797E-02	18.27		
m	5	122.93 Eu-154	3.77276E-02	20.60		
	6	238.38 Pb-212	1.78543E-02 (Th-232d)	41.67		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet
Errors quoted at 2.000 sigma

NUCLIDE MDA REPORT

Nuclide Library Used : \\WC98582\ApexRoot\Default\Library\RCF UNKNOWN.NLB

	Nuclide Name	Energy (keV)		Yield(%)	Activity (pCi/grams)	Nuclide MDA (pCi/grams)	Line MDA (pCi/grams)
+	K-40	1460.83	*	10.67	1.41E+01	2.43E+00	2.43E+00
	CO-60	1173.24		99.90	2.75E-01	3.62E-01	3.92E-01
		1332.50		99.98	2.14E-01		3.62E-01
	NB-94	702.63		99.81	4.76E-02	2.98E-01	2.98E-01
		871.10		99.89	1.56E-01		3.34E-01
	AG-108m	433.94		90.50	-1.00E-01	2.25E-01	2.25E-01
		614.28		89.80	-1.20E-02		3.00E-01
		722.94		90.80	2.18E-01		3.41E-01
+	CS-137	661.66	*	85.21	1.89E+00	2.74E-01	2.74E-01
+	EU-152	40.12	*	38.40	4.61E+00	3.17E-01	9.23E-01
		45.38	*	11.10	3.64E+00		2.00E+00
		121.78	*	28.40	4.31E+00		3.17E-01
		244.69	*	7.51	2.24E+00		1.99E+00
		344.29	*	26.60	4.62E+00		5.63E-01
		411.12		2.23	8.55E+00		1.02E+01
		443.89		2.80	1.63E+00		8.06E+00
		778.92	*	12.98	5.38E+00		1.83E+00
		867.38		4.21	4.24E+00		8.46E+00
		964.11	*	14.50	3.48E+00		1.98E+00

J1C100626

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 3-10-11 1515 GM Screen Result (out) _____ (in) _____ Initials[ ]

Client: WCH SDG #: JP0118 NA [ ] SAF #: RC-110 NA [CK]

Work Order Number: J1C100626 Chain of Custody # RC-110-045 CK

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

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): 15 samples @ 1 60ML + 1 500ML P per
7. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
8. Samples have:
   CK custody seals (soil) tape
   CK appropriate sample labels hazard labels
9. Samples:
   CK are in good condition are leaking
   ____ are broken ____ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [ ] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

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

(See other side for additional comments)

Sample Custodian: Carmen J. Ryan Date: 3-10-11 1515

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 3/11/11

LS-023, Rev. 12, 10/10

3/14/2011 3:01:44 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

PRIORITY

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech: 10:00 3/21/11 APA

Batch: 1070185 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:
1 MFH64-1-AC J1C100626-1-SAMP 03/10/2011 09:00		6.00g,in AmtRec: 1X60MLG,500MLP #Containers: 2	SRTA20687 02/25/11	1.5	1.4590g -1.4030g 56.0mg	50 min	26A Scr:	1550 Alpha:	3/21/11 m Beta:	
2 MFH64-1-AJ-X J1C100626-1-DUP 03/10/2011 09:00		6.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2	SRTA20688 02/25/11		1.4510g -1.3973g 53.7mg		26B Scr:	Alpha:	Beta:	
3 MFH7X-1-AC J1C100626-2-SAMP 03/10/2011 09:05		5.99g,in AmtRec: 1X60MLG,500MLP #Containers: 2	SRTA20689 02/25/11		1.4318g -1.3800g 51.8mg		26C Scr:	Alpha:	Beta:	
4 MFH72-1-AC J1C100626-3-SAMP 03/10/2011 09:25		6.00g,in AmtRec: 1X60MLG,500MLP #Containers: 2	SRTA20690 02/25/11		1.4627g -1.4140g 48.7mg		26D Scr:	Alpha:	Beta:	
5 MFH73-1-AC J1C100626-4-SAMP 03/10/2011 09:10		5.99g,in AmtRec: 1X60MLG,500MLP #Containers: 2	SRTA20691 02/25/11		1.4692g -1.4178g 51.4mg		27A Scr:	Alpha:	Beta:	
6 MFH75-1-AC J1C100626-5-SAMP 03/10/2011 09:15		6.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2	SRTA20692 02/25/11		1.4349g -1.3830g 51.9mg		27B Scr:	Alpha:	Beta:	
7 MFH9G-1-AC J1C100626-6-SAMP 03/10/2011 09:08		6.00g,in AmtRec: 1X60MLG,500MLP #Containers: 2	SRTA20693 02/25/11		1.4281g -1.3768g 51.3mg		27C Scr:	Alpha:	Beta:	

TestAmerica Laboratories, Inc.

86

TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.49

3/14/2011 3:01:45 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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070185 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:
8 MFH9H-1-AC J1C100626-7-SAMP 03/10/2011 09:20		5.99g,in AmtRec: 1X60MLG,500MLP	SRTA20694 02/25/11 #Containers: 2	1.5	1.4571g -1.4056g 51.5mg	50min	28B	1550	3/21/11 m	
9 MFH9J-1-AC J1C100626-8-SAMP 03/10/2011 09:30		6.00g,in AmtRec: 1X60MLG,500MLP	SRTA20695 02/25/11 #Containers: 2		1.4412g -1.3850g 56.2mg		28C			
10 MFH9K-1-AC J1C100626-9-SAMP 03/10/2011 09:35		6.01g,in AmtRec: 1X60MLG,500MLP	SRTA20696 02/25/11 #Containers: 2		1.4396g -1.3866g 53.0mg		28D			
11 MFH9L-1-AC J1C100626-10-SAMP 03/10/2011 09:40		6.01g,in AmtRec: 1X60MLG,500MLP	SRTA20697 02/25/11 #Containers: 2		1.4558g -1.4014g 54.4mg		~~28D~~ 32A			
12 MFH9N-1-AC J1C100626-11-SAMP 03/10/2011 09:45		6.00g,in AmtRec: 1X60MLG,500MLP	SRTA20716 02/25/11 #Containers: 2		1.4465g -1.3935g 53.0mg		32B			
13 MFH9R-1-AC J1C100626-12-SAMP 03/10/2011 09:55		6.01g,in AmtRec: 1X60MLG,500MLP	SRTA20717 02/25/11 #Containers: 2		1.4390g -1.3855g 53.5mg		32C			
14 MFH9T-1-AC J1C100626-13-SAMP 03/10/2011 09:50		6.01g,in AmtRec: 1X60MLG,500MLP	SRTA20718 02/25/11 #Containers: 2		1.4417g -1.3885g 53.2mg		32D			

Scr: Alpha: Beta:

3/14/2011 3:01:45 PM

Sample Preparation/Analysis

PRIORITY

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: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070185 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:
15 MFH9V-1-AC J1C100626-14-SAMP 03/10/2011 10:00		5.99g,in AmtRec: 1X60MLG,500MLP	SRTA20719 02/25/11 #Containers: 2	1.5	1.4545g -1.4013g 53.2mg	50min	~~32D~~ 32A Scr:	1729 Alpha:	~~7/21/11~~ 3/21/11 OD Beta:	
16 MFH9W-1-AC J1C100626-15-SAMP 03/10/2011 10:05		6.01g,in AmtRec: 1X60MLG,500MLP	SRTA20720 02/25/11 #Containers: 2		1.4641g -1.4067g 57.4mg		32B Scr:	Alpha:	Beta:	
17 MFJGW-1-AA-B J1C110000-185-BLK 03/11/2011 09:54 pd		5.99g,in AmtRec:	SRTA20721 02/25/11 #Containers: 1		1.4707g -1.3773g 93.4mg		32D Scr:	Alpha:	Beta:	
18 MFJGW-1-AC-C J1C110000-185-LCS 03/11/2011 09:54 pd		6.02g,in AmtRec:	STSB1572 03/10/11 #Containers: 1		1.4633g -1.3752g 88.1mg		32C Scr:	Alpha:	Beta:	

Comments:

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

MFH641AC-SAMP Constituent List:

Sr-90	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35

MFJGW1AA-BLK:

Sr-90	RDL:1	pCi/g	LCL:	UCL:	RPD:

MFJGW1AC-LCS:

Sr-90	RDL:1	pCi/g	LCL:70	UCL:130	RPD:35

MFH641AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/14/2011 3:01:46 PM

Sample Preparation/Analysis

PRIORITY

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070185 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:

MFJGW1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MFJGW1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/22/2011 9:08:46 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/22/2010, 3/27/2011, Batch: '1070185', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1070185						
AC		**Rev1C**	**BouslaughP**	3/14/2011 1:56:34 PM		
SC			MauclerlS	IsBatched	3/11/2011 10:00:04 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/14/2011 1:56:34 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/15/2011 3:19:24 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/15/2011 8:41:04 AM	RL-PRP-003 REVISION 1
SC			AshworthA	Sep2C	3/21/2011 12:34:39 PM	RL-GPC-003 REVISION 1
SC			ClarkR	InCnt1	3/21/2011 12:39:19 PM	RL-CI-006 REVISION 1
SC			antonsonl	Rev1C	3/22/2011 9:08:37 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/15/2011 3:19:24		
AC			**BouslaughP**	3/15/2011 8:41:04		
AC			**AshworthA**	3/21/2011 12:34:39		
AC			**ClarkR**	3/21/2011 12:39:19		
AC			**antonsonl**	3/22/2011 9:08:37		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt:6

ICOCFractions v4.8.44

WCH SOIL (LIBR TRLSP.) NLB

3/14/2011 5:32:26 PM

Sample Preparation/Analysis

Balance Id:n/a,1120421763

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070186 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BouslaughP,SannohS

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 MFH64-1-AF J1C100626-1-SAMP 03/10/2011 09:00	AmtRec: 1X60MLG,500MLP	#Containers: 2	338.10g,in	338.10g		S200	200min	G10	0312	3/14/11 OD	Scr: Alpha: Beta:
2 MFH7X-1-AF J1C100626-2-SAMP 03/10/2011 09:05	AmtRec: 1X60MLG,500MLP	#Containers: 2	65.20g,in	65.20g		S25		G14	0313		Scr: Alpha: Beta:
3 MFH7X-1-AJ-X J1C100626-2-DUP 03/10/2011 09:05	AmtRec: 1X60MLG,500MLP	#Containers: 2	66.90g,in	66.90g				G14 3/14/11 OD	0314		Scr: Alpha: Beta:
4 MFH72-1-AF J1C100626-3-SAMP 03/10/2011 09:25	AmtRec: 1X60MLG,500MLP	#Containers: 2	367.60g,in	367.60g		S200		G10	0716	3/15/11 S	Scr: Alpha: Beta:
5 MFH73-1-AF J1C100626-4-SAMP 03/10/2011 09:10	AmtRec: 1X60MLG,500MLP	#Containers: 2	366.30g,in	366.30g				G10	1054		Scr: Alpha: Beta:
6 MFH75-1-AF J1C100626-5-SAMP 03/10/2011 09:15	AmtRec: 1X60MLG,500MLP	#Containers: 2	382.00g,in	382.00g				G10	1421	3/15/11 S	Scr: Alpha: Beta:
7 MFH9G-1-AF J1C100626-6-SAMP 03/10/2011 09:08	AmtRec: 1X60MLG,500MLP	#Containers: 2	338.20g,in	338.20g				G10	1749	3/15/11 S	Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

WHC Soil (LIBR TRLSP, NLB

3/14/2011 5:32:27 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

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070186 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

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 MFH9H-1-AF J1C100626-7-SAMP 03/10/2011 09:20			352.20g,in AmtRec: 1X60MLG,500MLP	352.20g #Containers: 2		S 200	200 min	G10 Scr:	0301 Alpha:	3/15/11 GAD Beta:	
9 MFH9J-1-AF J1C100626-8-SAMP 03/10/2011 09:30			335.30g,in AmtRec: 1X60MLG,500MLP	335.30g #Containers: 2				G7 Scr:	0301 Alpha:	Beta:	
10 MFH9K-1-AF J1C100626-9-SAMP 03/10/2011 09:35			327.30g,in AmtRec: 1X60MLG,500MLP	327.30g #Containers: 2				G11 Scr:	0302 Alpha:	Beta:	
11 MFH9L-1-AF J1C100626-10-SAMP 03/10/2011 09:40			67.00g,in AmtRec: 1X60MLG,500MLP	67.00g #Containers: 2		S 25		G11 Scr:	0302 Alpha:	3/16/11 GAD Beta:	
12 MFH9N-1-AF J1C100626-11-SAMP 03/10/2011 09:45			364.40g,in AmtRec: 1X60MLG,500MLP	364.40g #Containers: 2		S 200		G14 Scr:	0302 Alpha:	Beta:	
13 MFH9R-1-AF J1C100626-12-SAMP 03/10/2011 09:55			352.30g,in AmtRec: 1X60MLG,500MLP	352.30g #Containers: 2				G7 Scr:	0302 Alpha:	Beta:	
14 MFH9T-1-AF J1C100626-13-SAMP 03/10/2011 09:50			354.10g,in AmtRec: 1X60MLG,500MLP	354.10g #Containers: 2				G10 Scr:	0303 Alpha:	Beta:	

TestAmerica Laboratories, Inc.

WCH SOIL LIBR TRLSP.NLB

3/14/2011 5:32:27 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

Pipet #: _____

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070186 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,SannohS

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 MFH9V-1-AF J1C100626-14-SAMP 03/10/2011 10:00			339.80g,in AmtRec: 1X60MLG,500MLP	339.80g #Containers: 2		S200	200 min	G1 Scr:	1030 Alpha:		Beta:
16 MFH9W-1-AF J1C100626-15-SAMP 03/10/2011 10:05			359.90g,in AmtRec: 1X60MLG,500MLP	359.90g #Containers: 2				G14 Scr:	1030 Alpha:		Beta:
17 MFJG5-1-AA-B J1C110000-186-BLK 03/11/2011 09:56 pd			348.00g,in AmtRec:	348.00g #Containers: 1		X1		G10 Scr:	1030 Alpha:		Beta:
18 MFJG5-1-AC-C J1C110000-186-LCS 03/11/2011 09:56 pd			350.10g,in AmtRec:	350.10g #Containers: 1	QC20009 08/04/09,pd 09/01/09,r			G7 Scr:	1037 Alpha:		Beta:

Comments:

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

MFH641AF-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:

MFJG51AA-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:

TestAmerica Laboratories, Inc.

93

3/14/2011 5:32:27 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/17/2011

Batch: 1070186 pCi/g
SEQ Batch, Test: None

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

```
 Eu-154      RDL:1.00E-01   pCi/g   LCL:      UCL:      RPD:      Eu-155      RDL:1.00E-01   pCi/g   LCL:      UCL:      RPD:

MFJG51AC-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

MFH641AF-SAMP Calc Info:
    Uncert Level (#s).: 2   Decay to SaDt: Y   Blk Subt.: N   Sci.Not.: Y   ODRs: B
MFJG51AA-BLK:
    Uncert Level (#s).: 2   Decay to SaDt: Y   Blk Subt.: N   Sci.Not.: Y   ODRs: B
MFJG51AC-LCS:
    Uncert Level (#s).: 2   Decay to SaDt: Y   Blk Subt.: N   Sci.Not.: Y   ODRs: B
```

3/17/2011 10:36:51 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/17/2010, 3/22/2011, Batch: '1070186', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
1070186						
AC		**Rev1C**	**SannohS**	3/14/2011 9:51:54		
SC			MauclerlS	IsBatched	3/11/2011 10:00:19 AM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	3/14/2011 9:51:54 AM	RL-GAM-001 REVISION 1
SC			DawkinsO	InCnt1	3/14/2011 6:51:22 PM	RL-CI-007 REVISION 1
SC			BlackCL	CalcC	3/16/2011 11:36:53 AM	RL-CI-007 REVISION 1
SC			antonsonl	Rev1C	3/17/2011 10:36:11 AM	RL-DR-001 Rev 2
AC			**DawkinsO**	3/14/2011 6:51:22 PM		
AC			**BlackCL**	3/16/2011 11:36:53		
AC			**antonsonl**	3/17/2011 10:36:11		

AC: Accepting Entry; SC: Status Change

3/14/2011 3:36:38 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Pipet #: _____

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070190 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MFH64-1-AH J1C100626-1-SAMP 03/10/2011 09:00		2.00g,in AmtRec: 1X60MLG,500MLP #Containers: 2		60		Scr:	Alpha:	Beta:
2 MFH7X-1-AH J1C100626-2-SAMP 03/10/2011 09:05		2.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
3 MFH72-1-AH J1C100626-3-SAMP 03/10/2011 09:25		2.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
4 MFH73-1-AH J1C100626-4-SAMP 03/10/2011 09:10		2.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
5 MFH73-1-AJ-S J1C100626-4-MS 03/10/2011 09:10		1.99g,in AmtRec: 1X60MLG,500MLP #Containers: 2	TCSF2083 03/04/11,pd 01/01/87,r			Scr:	Alpha:	Beta:
6 MFH73-1-AK-X J1C100626-4-DUP 03/10/2011 09:10		2.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
7 MFH75-1-AH J1C100626-5-SAMP 03/10/2011 09:15		2.02g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:

3/14/2011 3:36:39 PM

Sample Preparation/Analysis

PRIORITY

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070190 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFH9G-1-AH J1C100626-6-SAMP 03/10/2011 09:08		2.00g,in AmtRec: 1X60MLG,500MLP #Containers: 2		60		Scr:	Alpha:	Beta:
9 MFH9H-1-AH J1C100626-7-SAMP 03/10/2011 09:20		2.02g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
10 MFH9J-1-AH J1C100626-8-SAMP 03/10/2011 09:30		2.00g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
11 MFH9K-1-AH J1C100626-9-SAMP 03/10/2011 09:35		2.02g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
12 MFH9L-1-AH J1C100626-10-SAMP 03/10/2011 09:40		2.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
13 MFH9N-1-AH J1C100626-11-SAMP 03/10/2011 09:45		2.00g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
14 MFH9R-1-AH J1C100626-12-SAMP 03/10/2011 09:55		2.01g,in AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/14/2011 3:36:39 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Pipet #: _____

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070190 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFH9T-1-AH J1C100626-13-SAMP 03/10/2011 09:50		1.99g,in AmtRec: 1X60MLG,500MLP	#Containers: 2	60		Scr:	Alpha:	Beta:
16 MFH9V-1-AH J1C100626-14-SAMP 03/10/2011 10:00		2.01g,in AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
17 MFH9W-1-AH J1C100626-15-SAMP 03/10/2011 10:05		2.03g,in AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
18 MFJHL-1-AA-B J1C110000-190-BLK 03/11/2011 09:54 pd		2.02g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
19 MFJHL-1-AC-C J1C110000-190-LCS 03/11/2011 09:54 pd		1.99g,in AmtRec:	TCSG3066 12/21/10,pd 01/01/97 r #Containers: 1			Scr:	Alpha:	Beta:
20 MFJHL-1-AD-BN J1C110000-190-IBLK 03/11/2011 09:54 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
21 MFJHL-1-AE-BN J1C110000-190-IBLK 03/11/2011 09:54 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

98

3/14/2011 3:36:40 PM

Sample Preparation/Analysis

AN Tc-99 Prp/Sep PRP003/LSC013
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

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

AnalyDueDate: 03/17/2011

Batch: 1070190 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:

Comments:

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

MFH641AH-SAMP Constituent List:
Tc-99 RDL:15 pCi/g LCL:70 UCL:130 RPD:35
MFH731AJ-MS:

MFJHL1AA-BLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:
MFJHL1AC-LCS:
Tc-99 RDL:15 pCi/g LCL:70 UCL:130 RPD:35
MFJHL1AD-IBLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:
MFJHL1AE-IBLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:

MFH641AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFH731AJ-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJHL1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJHL1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJHL1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJHL1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/29/2011 10:27:02 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/29/2010, 4/3/2011, Batch: '1070190', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1070190						
AC		Rev1C	**BouslaughP**	3/14/2011 3:06:14 PM		
SC			MaucleriS	IsBatched	3/11/2011 10:00:34 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/14/2011 3:06:14 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/15/2011 2:34:42 AM	RL-PRP-003 REVISION 1
SC			DawkinsO	InCnt1	3/17/2011 3:50:47 PM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	3/21/2011 6:52:04 AM	RL-CI-005 REVISION 1
SC			ClarkR	CalcC	3/29/2011 9:55:20 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/29/2011 10:26:51 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/15/2011 2:34:42		
AC			**DawkinsO**	3/17/2011 3:50:47 PM		
AC			**BlackCL**	3/21/2011 6:52:04		
AC			**ClarkR**	3/29/2011 9:55:20		
AC			**antonsonl**	3/29/2011 10:26:51		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.44

9,13

3/11/2011 12:47:56 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

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

PRIORITY

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070195 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 MFH64-1-AE J1C100626-1-SAMP 03/10/2011 09:00	AmtRec: 1X60MLG,500MLP	#Containers: 2				Scr:	Alpha:	Beta:
2 MFH7X-1-AE J1C100626-2-SAMP 03/10/2011 09:05	AmtRec: 1X60MLG,500MLP	#Containers: 2				Scr:	Alpha:	Beta:
3 MFH72-1-AE J1C100626-3-SAMP 03/10/2011 09:25	AmtRec: 1X60MLG,500MLP	#Containers: 2				Scr:	Alpha:	Beta:
4 MFH72-1-AK-X J1C100626-3-DUP 03/10/2011 09:25	AmtRec: 1X60MLG,500MLP	#Containers: 2				Scr:	Alpha:	Beta:
5 MFH73-1-AE J1C100626-4-SAMP 03/10/2011 09:10	AmtRec: 1X60MLG,500MLP	#Containers: 2				Scr:	Alpha:	Beta:
6 MFH75-1-AE J1C100626-5-SAMP 03/10/2011 09:15	AmtRec: 1X60MLG,500MLP	#Containers: 2				Scr:	Alpha:	Beta:
7 MFH9G-1-AE J1C100626-6-SAMP 03/10/2011 09:08	AmtRec: 1X60MLG,500MLP	#Containers: 2				Scr:	Alpha:	Beta:

Test America Laboratories, Inc.

3/11/2011 12:47:57 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

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

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070195 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:
8 MFH9H-1-AE J1C100626-7-SAMP 03/10/2011 09:20		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MFH9J-1-AE J1C100626-8-SAMP 03/10/2011 09:30		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MFH9K-1-AE J1C100626-9-SAMP 03/10/2011 09:35		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MFH9L-1-AE J1C100626-10-SAMP 03/10/2011 09:40		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MFH9N-1-AE J1C100626-11-SAMP 03/10/2011 09:45		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MFH9R-1-AE J1C100626-12-SAMP 03/10/2011 09:55		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MFH9T-1-AE J1C100626-13-SAMP 03/10/2011 09:50		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:

Test America Laboratories, Inc.

3/11/2011 12:47:57 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC , AT H-3 Prp/Sep LSC002
Bechtel Hanford, Inc. S6 Tritium by Liquid Scint

AnalyDueDate: 03/17/2011 5I CLIENT: HANFORD

Batch: 1070195 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
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:
15 MFH9V-1-AE J1C100626-14-SAMP 03/10/2011 10:00		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
16 MFH9W-1-AE J1C100626-15-SAMP 03/10/2011 10:05		AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
17 MFJJA-1-AA-B J1C110000-195-BLK 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MFJJA-1-AC-C J1C110000-195-LCS 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
19 MFJJA-1-AD-BN J1C110000-195-IBLK 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
20 MFJJA-1-AE-BN J1C110000-195-IBLK 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

3/11/2011 12:47:58 PM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070195 pCi/g

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:

Comments:

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

MFH641AE-SAMP Constituent List:

MFJJA1AA-BLK:

MFJJA1AC-LCS:

MFJJA1AD-IBLK:

MFJJA1AE-IBLK:

MFH641AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJJA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJJA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJJA1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJJA1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/21/2011 3:55:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/21/2010, 3/26/2011, Batch: '1070195', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1070195						
AC		Rev1C	WagnerF	3/16/2011 7:28:50		
SC			MaucieriS	IsBatched	3/11/2011 10:00:46 AM	ICOC_RADCALC v4.8.49
SC			WagnerF	Sep1C	3/16/2011 7:28:50 AM	RL-LSC-002 REVISION 1
SC			BlackCL	InCnt1	3/17/2011 10:11:39 AM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	3/20/2011 6:06:56 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/21/2011 3:54:31 PM	RL-DR-001 Rev 2
AC			BlackCL	3/17/2011 10:11:39		
AC			BlackCL	3/20/2011 6:06:56		
AC			antonsonl	3/21/2011 3:54:31 PM		

AC: Accepting Entry; SC: Status Change

5,1

3/11/2011 12:47:55 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070192 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 MFH64-1-AG J1C100626-1-SAMP 03/10/2011 09:00		5.014g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MFH7X-1-AG J1C100626-2-SAMP 03/10/2011 09:05		5.036g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MFH72-1-AG J1C100626-3-SAMP 03/10/2011 09:25		5.044g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MFH72-1-AJ-X J1C100626-3-DUP 03/10/2011 09:25		5.008g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MFH73-1-AG J1C100626-4-SAMP 03/10/2011 09:10		5.016g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MFH75-1-AG J1C100626-5-SAMP 03/10/2011 09:15		5.022g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MFH9G-1-AG J1C100626-6-SAMP 03/10/2011 09:08		5.045g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:

3/11/2011 12:47:55 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 03/17/2011

Batch: 1070192 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFH9H-1-AG J1C100626-7-SAMP 03/10/2011 09:20		5.010g AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
9 MFH9J-1-AG J1C100626-8-SAMP 03/10/2011 09:30		5.029g AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
10 MFH9K-1-AG J1C100626-9-SAMP 03/10/2011 09:35		5.008g AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
11 MFH9L-1-AG J1C100626-10-SAMP 03/10/2011 09:40		5.048g AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
12 MFH9N-1-AG J1C100626-11-SAMP 03/10/2011 09:45		5.037g AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
13 MFH9R-1-AG J1C100626-12-SAMP 03/10/2011 09:55		5.007g AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:
14 MFH9T-1-AG J1C100626-13-SAMP 03/10/2011 09:50		5.032g AmtRec: 1X60MLG,500MLP #Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/11/2011 12:47:56 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 03/17/2011

Batch: 1070192 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
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:
15 MFH9V-1-AG J1C100626-14-SAMP 03/10/2011 10:00		5.004g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
16 MFH9W-1-AG J1C100626-15-SAMP 03/10/2011 10:05		5.032g AmtRec: 1X60MLG,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
17 MFJH3-1-AA-B J1C110000-192-BLK 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MFJH3-1-AC-C J1C110000-192-LCS 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
19 MFJH3-1-AD-BN J1C110000-192-IBLK 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
20 MFJH3-1-AE-BN J1C110000-192-IBLK 03/11/2011 09:56 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/11/2011 12:47:56 PM

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: 03/17/2011

Batch: 1070192 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:

Comments:

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

MFH641AG-SAMP Constituent List:

MFJH31AA-BLK:

MFJH31AC-LCS:

MFJH31AD-IBLK:

MFJH31AE-IBLK:

MFH641AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJH31AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJH31AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJH31AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJH31AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/22/2011 11:02:33 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/22/2010, 3/27/2011, Batch: '1070192', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1070192						
AC		Rev1C	WagnerF	3/11/2011 3:37:18 PM		
SC			MauclerlS	IsBatched	3/11/2011 10:00:41 AM	ICOC_RADCALC v4.8.49
SC			WagnerF	Sep1C	3/11/2011 3:37:18 PM	RL-LSC-008 REVISION 1
SC			DawkinsO	InCnt1	3/15/2011 4:41:42 PM	RL-CI-005 REVISION 1
SC			DawkinsO	CalcC	3/16/2011 11:13:27 PM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/17/2011 9:07:47 AM	RL-DR-001 Rev 2
AC			DawkinsO	3/15/2011 4:41:42 PM		
AC			DawkinsO	3/16/2011 11:13:27		
AC			antonsonl	3/17/2011 9:07:47		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 4

ICOCFractions v4.8.44

3/15/2011 10:38:19 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: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070188 SOIL pCi/g PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: DWEA, 1070185 CHTH, 1070186 AXTA, 1070188 AFS4, 1070190 ANS5, 1070192 5SS3, 1070195 ATS6,

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 MFH64-1-AD J1C100626-1-SAMP 03/10/2011 09:00		AmtRec: 1X60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3816 01/11/11	2min		Scr:	Alpha:	Beta:
2 MFH7X-1-AD J1C100626-2-SAMP 03/10/2011 09:05		AmtRec: 1X60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3817 01/11/11			Scr:	Alpha:	Beta:
3 MFH72-1-AD J1C100626-3-SAMP 03/10/2011 09:25		AmtRec: 1X60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3818 01/11/11			Scr:	Alpha:	Beta:
4 MFH73-1-AD J1C100626-4-SAMP 03/10/2011 09:10		AmtRec: 1X60MLG,500MLP	0.26g,in	0.26g #Containers: 2	NITA3819 01/11/11			Scr:	Alpha:	Beta:
5 MFH75-1-AD J1C100626-5-SAMP 03/10/2011 09:15		AmtRec: 1X60MLG,500MLP	0.24g,in	0.24g #Containers: 2	NITA3820 01/11/11			Scr:	Alpha:	Beta:
6 MFH75-1-AJ-X J1C100626-5-DUP 03/10/2011 09:15		AmtRec: 1X60MLG,500MLP	0.26g,in	0.26g #Containers: 2	NITA3821 01/11/11			Scr:	Alpha:	Beta:
7 MFH9G-1-AD J1C100626-6-SAMP 03/10/2011 09:08		AmtRec: 1X60MLG,500MLP	0.26g,in	0.26g #Containers: 2	NITA3822 01/11/11			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/15/2011 10:38:20 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: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070188 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFH9H-1-AD J1C100626-7-SAMP 03/10/2011 09:20		AmtRec: 1X60MLG,500MLP	0.26g,in	0.26g #Containers: 2	NITA3823 01/11/11	20 min		Scr:	Alpha:	Beta:
9 MFH9J-1-AD J1C100626-8-SAMP 03/10/2011 09:30		AmtRec: 1X60MLG,500MLP	0.26g,in	0.26g #Containers: 2	NITA3824 01/11/11			Scr:	Alpha:	Beta:
10 MFH9K-1-AD J1C100626-9-SAMP 03/10/2011 09:35		AmtRec: 1X60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3825 01/11/11			Scr:	Alpha:	Beta:
11 MFH9L-1-AD J1C100626-10-SAMP 03/10/2011 09:40		AmtRec: 1X60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3826 01/11/11			Scr:	Alpha:	Beta:
12 MFH9N-1-AD J1C100626-11-SAMP 03/10/2011 09:45		AmtRec: 1X60MLG,500MLP	0.26g,in	0.26g #Containers: 2	NITA3827 01/11/11			Scr:	Alpha:	Beta:
13 MFH9R-1-AD J1C100626-12-SAMP 03/10/2011 09:55		AmtRec: 1X60MLG,500MLP	0.24g,in	0.24g #Containers: 2	NITA3828 01/11/11			Scr:	Alpha:	Beta:
14 MFH9T-1-AD J1C100626-13-SAMP 03/10/2011 09:50		AmtRec: 1X60MLG,500MLP	0.24g,in	0.24g #Containers: 2	NITA3829 01/11/11			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

112

3/15/2011 10:38:20 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: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1070188 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:
15 MFH9V-1-AD J1C100626-14-SAMP 03/10/2011 10:00		AmtRec: 1X60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3830 01/11/11	20min		Scr:	Alpha:	Beta:
16 MFH9W-1-AD J1C100626-15-SAMP 03/10/2011 10:05		AmtRec: 1X60MLG,500MLP	0.25g,in	0.25g #Containers: 2	NITA3831 01/11/11			Scr:	Alpha:	Beta:
17 MFJG9-1-AA-B J1C110000-188-BLK 03/11/2011 09:56 pd		AmtRec:	0.24g,in	0.24g #Containers: 1	NITA3832 01/11/11			Scr:	Alpha:	Beta:
18 MFJG9-1-AC-C J1C110000-188-LCS 03/11/2011 09:56 pd		AmtRec:	0.24g,in	0.24g #Containers: 1	NISA1385 01/27/11			Scr:	Alpha:	Beta:
19 MFJG9-1-AD-BN J1C110000-188-IBLK 03/11/2011 09:56 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
20 MFJG9-1-AE-BN J1C110000-188-IBLK 03/11/2011 09:56 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

113

3/15/2011 10:38:21 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 #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 03/17/2011

Batch: 1070188 pCi/g
SEQ Batch, Test: None

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

Comments:

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

MFH641AD-SAMP Constituent List:
Ni-63 RDL:30 pCi/g LCL:70 UCL:130 RPD:35
MFJG91AA-BLK:
Ni-63 RDL:30 pCi/g LCL: UCL: RPD:
MFJG91AC-LCS:
Ni-63 RDL:30 pCi/g LCL:70 UCL:130 RPD:35
MFJG91AD-IBLK:
Ni-63 RDL:30 pCi/g LCL: UCL: RPD:
MFJG91AE-IBLK:
Ni-63 RDL:30 pCi/g LCL: UCL: RPD:

MFH641AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJG91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJG91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJG91AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFJG91AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

114

3/24/2011 10:31:17 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/24/2010, 3/29/2011, Batch: '1070188', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1070188						
AC		**Rev1C**	**BouslaughP**	3/15/2011 8:44:06		
SC			MaucieriS	IsBatched	3/11/2011 10:00:28 AM	ICOC_RADCALC v4.8.49
SC			BouslaughP	InPrep	3/15/2011 8:44:06 AM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/16/2011 1:53:12 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/16/2011 7:32:15 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep2C	3/17/2011 5:55:19 PM	RL-LSC-017 REVISION 1
SC			DawkinsO	InCnt1	3/17/2011 7:43:36 PM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	3/19/2011 8:58:58 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/24/2011 10:31:07 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/16/2011 1:53:12		
AC			**BouslaughP**	3/16/2011 7:32:15		
AC			**JorgensonD**	3/17/2011 5:55:19 PM		
AC			**DawkinsO**	3/17/2011 7:43:36 PM		
AC			**BlackCL**	3/19/2011 8:58:58		
AC			**antonsonl**	3/24/2011 10:31:07		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

3/16/2011 8:50:54 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

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

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1075395 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MFH64-1-AA J1C100626-1-SAMP 03/10/2011 09:00		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
2 MFH64-1-AK-S J1C100626-1-MS 03/10/2011 09:00		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
3 MFH64-1-AL-X J1C100626-1-DUP 03/10/2011 09:00		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
4 MFH7X-1-AA J1C100626-2-SAMP 03/10/2011 09:05		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
5 MFH72-1-AA J1C100626-3-SAMP 03/10/2011 09:25		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
6 MFH73-1-AA J1C100626-4-SAMP 03/10/2011 09:10		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
7 MFH75-1-AA J1C100626-5-SAMP 03/10/2011 09:15		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/16/2011 8:50:55 PM

Sample Preparation/Analysis

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 03/17/2011

Batch: 1075395 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 MFH9G-1-AA J1C100626-6-SAMP 03/10/2011 09:08		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
9 MFH9H-1-AA J1C100626-7-SAMP 03/10/2011 09:20		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
10 MFH9J-1-AA J1C100626-8-SAMP 03/10/2011 09:30		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
11 MFH9K-1-AA J1C100626-9-SAMP 03/10/2011 09:35		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
12 MFH9L-1-AA J1C100626-10-SAMP 03/10/2011 09:40		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
13 MFH9N-1-AA J1C100626-11-SAMP 03/10/2011 09:45		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
14 MFH9R-1-AA J1C100626-12-SAMP 03/10/2011 09:55		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/16/2011 8:50:55 PM

Sample Preparation/Analysis

Balance Id:

127642, Washington Closure Hanford LLC , Bechtel Hanford, Inc.

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

Pipet #:

AnalyDueDate: 03/17/2011

Sep1 DT/Tm Tech:

Batch: 1075395 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFH9T-1-AA J1C100626-13-SAMP 03/10/2011 09:50		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
16 MFH9V-1-AA J1C100626-14-SAMP 03/10/2011 10:00		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
17 MFH9W-1-AA J1C100626-15-SAMP 03/10/2011 10:05		AmtRec: 1X60MLG,500MLP	#Containers: 2					Scr:	Alpha:	Beta:
18 MFQXM-1-AA-B J1C160000-395-BLK 03/16/2011 20:50 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
19 MFQXM-1-AC-C J1C160000-395-LCS 03/16/2011 20:50 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

MFH641AA-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/17/2011

Batch: 1075395 mg/kg
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:

```
MFH641AK-MS Constituent List:

MFQXM1AA-BLK:

MFQXM1AC-LCS:

MFH641AA-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFH641AK-MS Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFQXM1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFQXM1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

TestAmerica Laboratories, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-13431-1

SDG Number: JP0118

Job Description: SAF# RC-110

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

Attention: Joan H Kessner

RECEIVED
MAR 2011

Approved for release.
Kae E Yoder
Project Manager II
3/25/2011 12:04 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
03/25/2011

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

Table of Contents

Cover Title Page 1

Report Narrative 3

Data Qualifiers 5

Method Summary 6

Method / Analyst Summary 7

Sample Summary 8

Sample Results 9

Sample Datasheets 10

QC Results 70

Qc Association Summary 71

Qc Reports 81

Client Chain of Custody 102

Sample Receipt Checklist 105

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-13431-1

SDG #: JP0118
SAF#: RC-110

Date SDG Closed: March 11, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FJK1	280-13431-1	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK2	280-13431-2	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK3	280-13431-3	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK4	280-13431-4	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK5	280-13431-5	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK6	280-13431-6	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK7	280-13431-7	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK8	280-13431-8	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJK9	280-13431-9	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJL0	280-13431-10	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJL1	280-13431-11	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJL2	280-13431-12	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJL3	280-13431-13	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJL4	280-13431-14	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310
J1FJL5	280-13431-15	6010/7471/300.0/353.2/9045/8082/8310	6010B/7471A/9056M/353.2/9045C/8082/8310

The Anions method substitution noted above, as agreed to by all parties, has no technical impact on the data.

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 3/11/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.8 C.

GC SEMIVOLATILES - SW846 8082 - PCBs
No anomalies were encountered.

HPLC - SW846 8310 - PAHs

The initial calibration is performed using surrogate p-terphenyl-d14. For the samples, method blank, LCS, and MS/MSD presented in this report, the surrogate added was p-terphenyl (non-deuterated). When the surrogate peaks in the samples, method blank, LCS, and MS/MSD were compared to the surrogate peaks in the initial calibration, the retention times did not match due to the difference between the deuterated and the non-deuterated surrogate. Therefore the retention time of the surrogate p-terphenyl in the samples, LCS, and MS/MSD were compared to the retention time of the same surrogate p-terphenyl in the associated method blank instead of the retention time of the deuterated surrogate in the initial calibration.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-57257 indicates that physical and chemical interferences are present for Zinc. Results have been flagged with an "X".

Low levels of Barium and Zinc are present in the method blank associated with batch 280-57257. Because the concentrations in the method blank are not present at levels greater than the reporting limits, 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 J1FJK1; therefore, control limits are not applicable.

No other anomalies were encountered.

GENERAL CHEMISTRY - MCAWW 353.2 - NITRATE+NITRITE as N

No anomalies were encountered.

GENERAL CHEMISTRY - SW846 9056M - ANIONS

No anomalies were encountered.

GENERAL CHEMISTRY - SW846 9045C - PH

No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Analyzed for but not detected.
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.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
General Chemistry		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
HPLC/IC		
	U	Analyzed for but not detected.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
pH	TAL DEN	SW846 9045C	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
Anions, Ion Chromatography	TAL DEN	SW846 9056M	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: 280-13431-1
Sdg Number: JP0118

Method	Analyst	Analyst ID
SW846 8082	Pavlakovich, Adam M	AMP
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Stoltz, Katie	KS
MCAWW 353.2	Stosak, Lara E	LES
SW846 9045C	Taylor, Juli M	JMT
SW846 9056M	Kudla, Ewa	EK
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13431-1	J1FJK1	Solid	03/10/2011 0900	03/11/2011 0900
280-13431-2	J1FJK2	Solid	03/10/2011 0905	03/11/2011 0900
280-13431-3	J1FJK3	Solid	03/10/2011 0925	03/11/2011 0900
280-13431-4	J1FJK4	Solid	03/10/2011 0910	03/11/2011 0900
280-13431-5	J1FJK5	Solid	03/10/2011 0915	03/11/2011 0900
280-13431-6	J1FJK6	Solid	03/10/2011 0908	03/11/2011 0900
280-13431-7	J1FJK7	Solid	03/10/2011 0920	03/11/2011 0900
280-13431-8	J1FJK8	Solid	03/10/2011 0930	03/11/2011 0900
280-13431-9	J1FJK9	Solid	03/10/2011 0935	03/11/2011 0900
280-13431-10	J1FJL0	Solid	03/10/2011 0940	03/11/2011 0900
280-13431-11	J1FJL1	Solid	03/10/2011 0945	03/11/2011 0900
280-13431-12	J1FJL2	Solid	03/10/2011 0955	03/11/2011 0900
280-13431-13	J1FJL3	Solid	03/10/2011 0950	03/11/2011 0900
280-13431-14	J1FJL4	Solid	03/10/2011 1000	03/11/2011 0900
280-13431-15	J1FJL5	Solid	03/10/2011 1005	03/11/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK1**

Lab Sample ID: 280-13431-1
Client Matrix: Solid
% Moisture: 12.6

Date Sampled: 03/10/2011 0900
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 0538			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.1	U	3.1	11
Aroclor 1221		9.0	U	9.0	19
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.2	U	5.2	11
Aroclor 1248		5.2	U	5.2	11
Aroclor 1254		2.9	U	2.9	11
Aroclor 1260		2.9	U	2.9	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	80		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK2**

Lab Sample ID: 280-13431-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/10/2011 0905
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 0713			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.3	U	3.3	12
Aroclor 1221		9.5	U	9.5	19
Aroclor 1232		2.4	U	2.4	12
Aroclor 1242		5.5	U	5.5	12
Aroclor 1248		5.5	U	5.5	12
Aroclor 1254		3.1	U	3.1	12
Aroclor 1260		3.1	U	3.1	12

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	78		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK3**

Lab Sample ID: 280-13431-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0925
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 0745			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.4	U	8.4	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.9	U	4.9	10
Aroclor 1248		4.9	U	4.9	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	73		59 - 130
Tetrachloro-m-xylene	77		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK4**

Lab Sample ID: 280-13431-4
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0910
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 0817			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	79		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK5**

Lab Sample ID: 280-13431-5
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/10/2011 0915
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 0849			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK6**

Lab Sample ID: 280-13431-6
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0908
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 0921			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.4	U	8.4	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.9	U	4.9	10
Aroclor 1248		4.9	U	4.9	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	81		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK7**

Lab Sample ID: 280-13431-7
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/10/2011 0920
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1024			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	79		59 - 130
Tetrachloro-m-xylene	80		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK8**

Lab Sample ID: 280-13431-8
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 03/10/2011 0930
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1056			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK9**

Lab Sample ID: 280-13431-9
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 03/10/2011 0935
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1128			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	81		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL0**

Lab Sample ID: 280-13431-10
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0940
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1232			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	80		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL1**

Lab Sample ID: 280-13431-11
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/10/2011 0945
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1304			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	78		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL2**

Lab Sample ID: 280-13431-12
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 03/10/2011 0955
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1336			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	78		59 - 130
Tetrachloro-m-xylene	79		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL3**

Lab Sample ID: 280-13431-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/10/2011 0950
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1408			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	82		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL4**

Lab Sample ID: 280-13431-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 03/10/2011 1000
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1440			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		2.7	U	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	81		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL5**

Lab Sample ID: 280-13431-15
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/10/2011 1005
Date Received: 03/11/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58142		Instrument ID:	GCS_W
Preparation:	3550C	Prep Batch: 280-57232		Initial Weight/Volume:	32.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/17/2011 1512			Injection Volume:	1 uL
Date Prepared:	03/13/2011 1510			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.5	U	4.5	9.8
Aroclor 1248		4.5	U	4.5	9.8
Aroclor 1254		2.5	U	2.5	9.8
Aroclor 1260		2.5	U	2.5	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK1**

Lab Sample ID: 280-13431-1
Client Matrix: Solid
% Moisture: 12.6

Date Sampled: 03/10/2011 0900
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	32.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1222			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.0	U	5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		14	U	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		13	U	13	31
Naphthalene		13	U	13	100
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	102		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK2**

Lab Sample ID: 280-13431-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/10/2011 0905
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1252			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	120
Acenaphthylene		11	U	11	120
Anthracene		3.6	U	3.6	24
Benzo[a]anthracene		3.8	U	3.8	18
Benzo[a]pyrene		7.7	U	7.7	18
Benzo[b]fluoranthene		5.0	U	5.0	18
Benzo[g,h,i]perylene		8.6	U	8.6	36
Benzo[k]fluoranthene		4.7	U	4.7	18
Chrysene		5.8	U	5.8	48
Dibenzo(a,h)anthracene		13	U	13	36
Fluoranthene		16	U	16	48
Fluorene		6.3	U	6.3	36
Indeno[1,2,3-cd]pyrene		14	U	14	36
Naphthalene		14	U	14	120
Phenanthrene		14	U	14	48
Pyrene		14	U	14	48

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	103		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK3**

Lab Sample ID: 280-13431-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0925
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1323			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.0	U	5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	42
Pyrene		12	U	12	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	103		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK4**

Lab Sample ID: 280-13431-4
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0910
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1353			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	98		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK5**

Lab Sample ID: 280-13431-5
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/10/2011 0915
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1424			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.0	U	5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		14	U	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	42
Pyrene		12	U	12	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	99		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK6**

Lab Sample ID: 280-13431-6
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0908
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1454			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	101		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK7**

Lab Sample ID: 280-13431-7
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/10/2011 0920
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1525			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.6	U	6.6	16
Benzo[b]fluoranthene		4.3	U	4.3	16
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	101		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK8**

Lab Sample ID: 280-13431-8
Client Matrix: Solid

% Moisture: 2.7

Date Sampled: 03/10/2011 0930
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1556			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	101		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK9**

Lab Sample ID: 280-13431-9
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 03/10/2011 0935
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1758			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.6	U	6.6	16
Benzo[b]fluoranthene		4.3	U	4.3	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	98		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL0**

Lab Sample ID: 280-13431-10
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0940
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1828			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	101		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL1**

Lab Sample ID: 280-13431-11
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/10/2011 0945
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1859			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	102		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL2**

Lab Sample ID: 280-13431-12
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 03/10/2011 0955
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 1929			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	103		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL3**

Lab Sample ID: 280-13431-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/10/2011 0950
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 2000			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.5	U	9.5	110
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.4	U	3.4	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.6	U	7.6	32
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.1	U	5.1	42
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	42
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	99		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL4**

Lab Sample ID: 280-13431-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 03/10/2011 1000
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 2030			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	98		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL5**

Lab Sample ID: 280-13431-15
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/10/2011 1005
Date Received: 03/11/2011 0900

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58054		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-57242		Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/17/2011 2101			Injection Volume:	20 uL
Date Prepared:	03/13/2011 1545			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.6	U	6.6	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	101		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK1**

Lab Sample ID: 280-13431-1
Client Matrix: Solid
% Moisture: 12.6

Date Sampled: 03/10/2011 0900
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Date Analyzed:	03/15/2011 1553			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6720		1.6	5.3
Antimony		0.40	U	0.40	0.64
Arsenic		2.0		0.70	1.1
Barium		36.8		0.080	0.53
Beryllium		0.035	U	0.035	0.21
Boron		1.0	B	1.0	2.1
Cadmium		0.044	B	0.043	0.21
Calcium		5430		14.9	53.0
Chromium		9.8		0.061	0.21
Cobalt		5.0		0.11	1.1
Copper		16.9		0.23	1.1
Iron		13100		4.0	5.3
Lead		2.4		0.29	0.53
Magnesium		4790		3.9	21.2
Manganese		292		0.11	1.1
Molybdenum		0.44	B	0.28	2.1
Nickel		9.5		0.13	4.2
Potassium		731		43.4	318
Silicon		136		6.0	10.6
Silver		0.17	U	0.17	0.21
Sodium		303		62.5	127
Vanadium		35.4		0.10	2.1
Zinc		29.5	X	0.42	1.1

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Date Analyzed:	03/16/2011 1231			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		1.1		0.91	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Date Analyzed:	03/15/2011 1804			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.014	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK2**

Lab Sample ID: 280-13431-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/10/2011 0905
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Date Analyzed:	03/15/2011 1602			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7250		1.7	5.6
Antimony		0.43	U	0.43	0.67
Arsenic		1.5		0.74	1.1
Barium		41.7		0.085	0.56
Beryllium		0.037	U	0.037	0.22
Boron		1.1	U	1.1	2.2
Cadmium		0.046	U	0.046	0.22
Calcium		4340		15.8	56.0
Chromium		10.1		0.065	0.22
Cobalt		5.3		0.11	1.1
Copper		16.2		0.24	1.1
Iron		14100		4.3	5.6
Lead		2.6		0.30	0.56
Magnesium		5210		4.1	22.4
Manganese		307		0.11	1.1
Molybdenum		0.29	U	0.29	2.2
Nickel		11.5		0.14	4.5
Potassium		813		45.9	336
Silicon		113		6.3	11.2
Silver		0.18	U	0.18	0.22
Sodium		265		66.1	134
Vanadium		37.2		0.11	2.2
Zinc		31.0	X	0.45	1.1

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Date Analyzed:	03/16/2011 1240			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.96	U	0.96	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Date Analyzed:	03/15/2011 1806			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0098	B	0.0059	0.018

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK3**

Lab Sample ID: 280-13431-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0925
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Date Analyzed:	03/15/2011 1604			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5320		1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		1.4		0.66	1.0
Barium		34.9		0.076	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.98	U	0.98	2.0
Cadmium		0.046	B	0.041	0.20
Calcium		4370		14.1	49.9
Chromium		7.1		0.058	0.20
Cobalt		4.7		0.10	1.0
Copper		13.2		0.22	1.0
Iron		12300		3.8	5.0
Lead		2.3		0.27	0.50
Magnesium		3890		3.7	20.0
Manganese		246		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		7.8		0.12	4.0
Potassium		504		40.9	300
Silicon		117		5.7	10
Silver		0.16	U	0.16	0.20
Sodium		184		58.9	120
Vanadium		33.3		0.094	2.0
Zinc		25.8	X	0.40	1.0

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Date Analyzed:	03/16/2011 1242			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.86	U	0.86	1.0

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Date Analyzed:	03/15/2011 1808			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0080	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK4**

Lab Sample ID: 280-13431-4
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0910
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/15/2011 1607			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6010		1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		1.5		0.60	0.91
Barium		30.2		0.069	0.46
Beryllium		0.030	U	0.030	0.18
Boron		0.89	U	0.89	1.8
Cadmium		0.044	B	0.037	0.18
Calcium		3530		12.8	45.5
Chromium		10.2		0.053	0.18
Cobalt		4.9		0.091	0.91
Copper		15.9		0.20	0.91
Iron		12800		3.5	4.6
Lead		2.2		0.25	0.46
Magnesium		4350		3.4	18.2
Manganese		286		0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		9.9		0.11	3.6
Potassium		475		37.3	273
Silicon		98.0		5.2	9.1
Silver		0.15	U	0.15	0.18
Sodium		212		53.7	109
Vanadium		36.3		0.086	1.8
Zinc		28.0	X	0.36	0.91

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/16/2011 1245			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.78	U	0.78	0.91

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Date Analyzed:	03/15/2011 1811			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.012	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK5**

Lab Sample ID: 280-13431-5
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/10/2011 0915
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	03/15/2011 1609			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6360		1.4	4.7
Antimony		0.35	U	0.35	0.56
Arsenic		1.6		0.61	0.93
Barium		36.0		0.071	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.91	U	0.91	1.9
Cadmium		0.11	B	0.038	0.19
Calcium		3360		13.1	46.6
Chromium		17.4		0.054	0.19
Cobalt		5.3		0.093	0.93
Copper		15.6		0.20	0.93
Iron		13200		3.5	4.7
Lead		2.4		0.25	0.47
Magnesium		4510		3.4	18.6
Manganese		243		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		10.6		0.11	3.7
Potassium		556		38.2	279
Silicon		139		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		208		55.0	112
Vanadium		35.2		0.088	1.9
Zinc		36.1	X	0.37	0.93

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	03/16/2011 1247			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.80	U	0.80	0.93

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	03/15/2011 1813			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK6**

Lab Sample ID: 280-13431-6
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0908
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/15/2011 1620			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5530		1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		1.5		0.67	1.0
Barium		49.5		0.077	0.51
Beryllium		0.034	U	0.034	0.20
Boron		1.0	U	1.0	2.0
Cadmium		0.064	B	0.042	0.20
Calcium		4570		14.4	50.9
Chromium		9.1		0.059	0.20
Cobalt		5.4		0.10	1.0
Copper		11.9		0.22	1.0
Iron		15100		3.9	5.1
Lead		2.3		0.27	0.51
Magnesium		4230		3.8	20.4
Manganese		276		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.5		0.13	4.1
Potassium		540		41.7	305
Silicon		97.6		5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		239		60.0	122
Vanadium		41.2		0.096	2.0
Zinc		31.0	X	0.41	1.0

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/16/2011 1259			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.88	U	0.88	1.0

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	03/15/2011 1815			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0081	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK7**

Lab Sample ID: 280-13431-7
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/10/2011 0920
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Date Analyzed:	03/15/2011 1623			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5160		1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		1.0		0.60	0.91
Barium		45.7		0.069	0.46
Beryllium		0.030	U	0.030	0.18
Boron		0.89	U	0.89	1.8
Cadmium		0.065	B	0.037	0.18
Calcium		3440		12.9	45.6
Chromium		10.0		0.053	0.18
Cobalt		5.1		0.091	0.91
Copper		11.9		0.20	0.91
Iron		14800		3.5	4.6
Lead		2.2		0.25	0.46
Magnesium		3970		3.4	18.3
Manganese		258		0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		8.4		0.11	3.7
Potassium		472		37.4	274
Silicon		85.1		5.2	9.1
Silver		0.15	U	0.15	0.18
Sodium		169		53.8	110
Vanadium		44.2		0.086	1.8
Zinc		31.5	X	0.36	0.91

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Date Analyzed:	03/16/2011 1301			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.78	U	0.78	0.91

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	03/15/2011 1818			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.014	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK8**

Lab Sample ID: 280-13431-8
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 03/10/2011 0930
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Date Analyzed:	03/15/2011 1625			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5830		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		1.7		0.60	0.90
Barium		42.4		0.069	0.45
Beryllium		0.030	U	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.092	B	0.037	0.18
Calcium		4000		12.7	45.1
Chromium		16.1		0.052	0.18
Cobalt		5.5		0.090	0.90
Copper		12.2		0.20	0.90
Iron		15700		3.4	4.5
Lead		4.0		0.24	0.45
Magnesium		4010		3.3	18.0
Manganese		233		0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		8.9		0.11	3.6
Potassium		573		37.0	271
Silicon		113		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		231		53.2	108
Vanadium		46.8		0.085	1.8
Zinc		34.4	X	0.36	0.90

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Date Analyzed:	03/16/2011 1303			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.78	U	0.78	0.90

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	03/15/2011 1825			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.019		0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJK9**

Lab Sample ID: 280-13431-9
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 03/10/2011 0935
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Date Analyzed:	03/15/2011 1628			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5950		1.6	5.3
Antimony		0.40	U	0.40	0.64
Arsenic		1.6		0.70	1.1
Barium		52.1		0.080	0.53
Beryllium		0.035	U	0.035	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.15	B	0.043	0.21
Calcium		3640		14.9	53.0
Chromium		27.4		0.061	0.21
Cobalt		5.0		0.11	1.1
Copper		13.3		0.23	1.1
Iron		16300		4.0	5.3
Lead		2.8		0.29	0.53
Magnesium		3940		3.9	21.2
Manganese		212		0.11	1.1
Molybdenum		0.28	U	0.28	2.1
Nickel		8.0		0.13	4.2
Potassium		534		43.4	318
Silicon		113		6.0	10.6
Silver		0.17	U	0.17	0.21
Sodium		210		62.5	127
Vanadium		45.8		0.10	2.1
Zinc		41.9	X	0.42	1.1

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Date Analyzed:	03/16/2011 1306			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.91	U	0.91	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Date Analyzed:	03/15/2011 1827			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.056		0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL0**

Lab Sample ID: 280-13431-10
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0940
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/15/2011 1630			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4800		1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		2.7		0.67	1.0
Barium		51.8		0.077	0.51
Beryllium		0.034	U	0.034	0.20
Boron		1.0	U	1.0	2.0
Cadmium		0.042	U	0.042	0.20
Calcium		5180		14.3	50.8
Chromium		7.8		0.059	0.20
Cobalt		5.8		0.10	1.0
Copper		15.7		0.22	1.0
Iron		15600		3.9	5.1
Lead		2.2		0.27	0.51
Magnesium		3830		3.8	20.3
Manganese		245		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		8.5		0.13	4.1
Potassium		565		41.7	305
Silicon		136		5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		231		60.0	122
Vanadium		44.6		0.096	2.0
Zinc		33.1	X	0.40	1.0

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/16/2011 1308			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.87	U	0.87	1.0

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	03/15/2011 1829			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0059	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL1**

Lab Sample ID: 280-13431-11
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/10/2011 0945
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Date Analyzed:	03/15/2011 1632			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5220		1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		1.3		0.63	0.95
Barium		41.6		0.072	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.93	U	0.93	1.9
Cadmium		0.15	B	0.039	0.19
Calcium		3460		13.4	47.4
Chromium		28.7		0.055	0.19
Cobalt		4.9		0.095	0.95
Copper		12.0		0.21	0.95
Iron		15200		3.6	4.7
Lead		2.4		0.26	0.47
Magnesium		3640		3.5	19.0
Manganese		199		0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		10		0.12	3.8
Potassium		479		38.9	285
Silicon		105		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		203		56.0	114
Vanadium		43.7		0.089	1.9
Zinc		37.9	X	0.38	0.95

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Date Analyzed:	03/16/2011 1310			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.82	U	0.82	0.95

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	03/15/2011 1831			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.061		0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL2**

Lab Sample ID: 280-13431-12
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 03/10/2011 0955
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Date Analyzed:	03/15/2011 1635			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4760		1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		1.4		0.63	0.95
Barium		34.1		0.073	0.48
Beryllium		0.031	U	0.031	0.19
Boron		0.94	U	0.94	1.9
Cadmium		0.056	B	0.039	0.19
Calcium		4490		13.5	47.7
Chromium		9.2		0.055	0.19
Cobalt		4.8		0.095	0.95
Copper		11.2		0.21	0.95
Iron		13300		3.6	4.8
Lead		2.4		0.26	0.48
Magnesium		4020		3.5	19.1
Manganese		298		0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		10.4		0.12	3.8
Potassium		573		39.1	286
Silicon		125		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		227		56.3	115
Vanadium		39.4		0.090	1.9
Zinc		28.0	X	0.38	0.95

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Date Analyzed:	03/16/2011 1313			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.82	U	0.82	0.95

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58024		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110316AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	03/16/2011 1513			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.016

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL3**

Lab Sample ID: 280-13431-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/10/2011 0950
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/15/2011 1637			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5200		1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		1.4		0.61	0.92
Barium		32.5		0.070	0.46
Beryllium		0.030	U	0.030	0.18
Boron		0.90	U	0.90	1.8
Cadmium		0.050	B	0.038	0.18
Calcium		5140		13.0	45.9
Chromium		9.3		0.053	0.18
Cobalt		4.9		0.092	0.92
Copper		17.0		0.20	0.92
Iron		14000		3.5	4.6
Lead		2.1		0.25	0.46
Magnesium		3700		3.4	18.4
Manganese		207		0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		9.9		0.11	3.7
Potassium		527		37.7	276
Silicon		78.4		5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		225		54.2	110
Vanadium		42.8		0.086	1.8
Zinc		29.9	X	0.37	0.92

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Date Analyzed:	03/16/2011 1315			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.79	U	0.79	0.92

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Date Analyzed:	03/15/2011 1838			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0056	B	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL4**

Lab Sample ID: 280-13431-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 03/10/2011 1000
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Date Analyzed:	03/15/2011 1639			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5100		1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		0.88		0.58	0.88
Barium		40.3		0.067	0.44
Beryllium		0.029	U	0.029	0.18
Boron		0.86	U	0.86	1.8
Cadmium		0.056	B	0.036	0.18
Calcium		4570		12.4	44.1
Chromium		9.5		0.051	0.18
Cobalt		5.0		0.088	0.88
Copper		10.9		0.19	0.88
Iron		15200		3.4	4.4
Lead		2.3		0.24	0.44
Magnesium		3780		3.3	17.7
Manganese		227		0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		8.5		0.11	3.5
Potassium		509		36.2	265
Silicon		91.6		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		193		52.1	106
Vanadium		47.1		0.083	1.8
Zinc		30.9	X	0.35	0.88

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Date Analyzed:	03/16/2011 1317			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.76	U	0.76	0.88

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Date Analyzed:	03/15/2011 1841			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0064	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Client Sample ID: **J1FJL5**

Lab Sample ID: 280-13431-15
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/10/2011 1005
Date Received: 03/11/2011 0900

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-57719		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031511.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	03/15/2011 1642			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5350		1.4	4.7
Antimony		0.35	U	0.35	0.56
Arsenic		2.4		0.62	0.93
Barium		40.6		0.071	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.91	U	0.91	1.9
Cadmium		0.13	B	0.038	0.19
Calcium		3500		13.1	46.6
Chromium		33.9		0.054	0.19
Cobalt		4.9		0.093	0.93
Copper		13.5		0.20	0.93
Iron		15400		3.5	4.7
Lead		8.8		0.25	0.47
Magnesium		3910		3.4	18.6
Manganese		203		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		8.9		0.11	3.7
Potassium		502		38.2	280
Silicon		129		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		216		55.0	112
Vanadium		45.1		0.088	1.9
Zinc		45.4	X	0.37	0.93

Method:	6010B	Analysis Batch: 280-58015		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-57257		Lab File ID:	26a031611.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	03/16/2011 1320			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.80	U	0.80	0.93

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-57714		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-57372		Lab File ID:	110315AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	03/15/2011 1843			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.50		0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

General Chemistry

Client Sample ID: **J1FJK1**

Lab Sample ID: 280-13431-1
Client Matrix: Solid
% Moisture: 12.6

Date Sampled: 03/10/2011 0900
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.96		mg/Kg	0.39	0.82	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1412						DryWt Corrected: Y
Chloride-Soluble	2.2	U	mg/Kg	2.2	5.6	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2231						DryWt Corrected: Y
Nitrate as N-Soluble	0.99	B	mg/Kg	0.35	2.8	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2231						DryWt Corrected: Y
Bromide-Soluble	0.44	U	mg/Kg	0.44	2.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2231						DryWt Corrected: Y
Nitrite as N-Soluble	0.38	U	mg/Kg	0.38	2.8	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2231						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.4	U	mg/Kg	1.4	5.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2231						DryWt Corrected: Y
Sulfate-Soluble	5.7		mg/Kg	1.9	5.6	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2231						DryWt Corrected: Y
Fluoride-Soluble	0.92	U	mg/Kg	0.92	5.6	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2231						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.30		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0850						DryWt Corrected: N
Percent Moisture	12.6		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK2**

Lab Sample ID: 280-13431-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/10/2011 0905
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.45	B	mg/Kg	0.40	0.84	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1425						DryWt Corrected: Y
Chloride-Soluble	2.2	U	mg/Kg	2.2	5.5	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2248						DryWt Corrected: Y
Nitrate as N-Soluble	0.47	B	mg/Kg	0.35	2.7	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2248						DryWt Corrected: Y
Bromide-Soluble	0.43	U	mg/Kg	0.43	2.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2248						DryWt Corrected: Y
Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	2.7	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2248						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.4	U	mg/Kg	1.4	5.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2248						DryWt Corrected: Y
Sulfate-Soluble	5.3	B	mg/Kg	1.9	5.5	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2248						DryWt Corrected: Y
Fluoride-Soluble	0.90	U	mg/Kg	0.90	5.5	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2248						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.00		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0854						DryWt Corrected: N
Percent Moisture	16.5		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK3**

Lab Sample ID: 280-13431-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0925
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	0.78	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1427						DryWt Corrected: Y
Chloride-Soluble	2.4	B	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2305						DryWt Corrected: Y
Nitrate as N-Soluble	0.32	U	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2305						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2305						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2305						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2305						DryWt Corrected: Y
Sulfate-Soluble	3.4	B	mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2305						DryWt Corrected: Y
Fluoride-Soluble	0.84	U	mg/Kg	0.84	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2305						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.94		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0857						DryWt Corrected: N
Percent Moisture	4.6		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK4**

Lab Sample ID: 280-13431-4
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0910
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	0.77	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1428						DryWt Corrected: Y
Chloride-Soluble	2.1	U	mg/Kg	2.1	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2321						DryWt Corrected: Y
Nitrate as N-Soluble	0.42	B	mg/Kg	0.33	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2321						DryWt Corrected: Y
Bromide-Soluble	0.41	U	mg/Kg	0.41	2.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2321						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2321						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2321						DryWt Corrected: Y
Sulfate-Soluble	2.8	B	mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2321						DryWt Corrected: Y
Fluoride-Soluble	0.86	U	mg/Kg	0.86	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2321						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	7.55		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0901						DryWt Corrected: N
Percent Moisture	4.5		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK5**

Lab Sample ID: 280-13431-5
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 03/10/2011 0915
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	0.78	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1430						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2338						DryWt Corrected: Y
Nitrate as N-Soluble	0.34	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2338						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2338						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2338						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2338						DryWt Corrected: Y
Sulfate-Soluble	2.1	B	mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2338						DryWt Corrected: Y
Fluoride-Soluble	0.85	U	mg/Kg	0.85	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2338						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.15		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0904						DryWt Corrected: N
Percent Moisture	5.0		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK6**

Lab Sample ID: 280-13431-6
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/10/2011 0908
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.38	U	mg/Kg	0.38	0.79	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1431						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2355						DryWt Corrected: Y
Nitrate as N-Soluble	0.37	B	mg/Kg	0.31	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2355						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2355						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2355						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.2	U	mg/Kg	1.2	5.0	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/14/2011 2355						DryWt Corrected: Y
Sulfate-Soluble	2.1	B	mg/Kg	1.7	5.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2355						DryWt Corrected: Y
Fluoride-Soluble	0.82	U	mg/Kg	0.82	5.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/14/2011 2355						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.74		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0906						DryWt Corrected: N
Percent Moisture	4.6		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK7**

Lab Sample ID: 280-13431-7
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/10/2011 0920
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.74	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1433						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0045						DryWt Corrected: Y
Nitrate as N-Soluble	0.42	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0045						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0045						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0045						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0045						DryWt Corrected: Y
Sulfate-Soluble	2.3	B	mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0045						DryWt Corrected: Y
Fluoride-Soluble	0.84	U	mg/Kg	0.84	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0045						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	7.76		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0911						DryWt Corrected: N
Percent Moisture	3.9		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK8**

Lab Sample ID: 280-13431-8
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 03/10/2011 0930
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	0.76	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1434						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0102						DryWt Corrected: Y
Nitrate as N-Soluble	0.37	B	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0102						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0102						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0102						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.2	U	mg/Kg	1.2	5.0	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0102						DryWt Corrected: Y
Sulfate-Soluble	3.5	B	mg/Kg	1.7	5.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0102						DryWt Corrected: Y
Fluoride-Soluble	0.83	U	mg/Kg	0.83	5.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0102						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.11		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0916						DryWt Corrected: N
Percent Moisture	2.7		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJK9**

Lab Sample ID: 280-13431-9
Client Matrix: Solid
% Moisture: 5.6

Date Sampled: 03/10/2011 0935
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	0.75	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1448						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0153						DryWt Corrected: Y
Nitrate as N-Soluble	0.39	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0153						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0153						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0153						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0153						DryWt Corrected: Y
Sulfate-Soluble	5.5		mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0153						DryWt Corrected: Y
Fluoride-Soluble	0.85	U	mg/Kg	0.85	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0153						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.50		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0918						DryWt Corrected: N
Percent Moisture	5.6		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJL0**

Lab Sample ID: 280-13431-10
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/10/2011 0940
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	0.79	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1449						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0209						DryWt Corrected: Y
Nitrate as N-Soluble	0.37	B	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0209						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0209						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0209						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0209						DryWt Corrected: Y
Sulfate-Soluble	2.6	B	mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0209						DryWt Corrected: Y
Fluoride-Soluble	0.84	U	mg/Kg	0.84	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0209						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.13		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0924						DryWt Corrected: N
Percent Moisture	4.5		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJL1**

Lab Sample ID: 280-13431-11
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 03/10/2011 0945
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.73	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1451						DryWt Corrected: Y
Chloride-Soluble	1.9	U	mg/Kg	1.9	4.9	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0226						DryWt Corrected: Y
Nitrate as N-Soluble	0.39	B	mg/Kg	0.31	2.4	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0226						DryWt Corrected: Y
Bromide-Soluble	0.38	U	mg/Kg	0.38	2.0	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0226						DryWt Corrected: Y
Nitrite as N-Soluble	0.33	U	mg/Kg	0.33	2.4	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0226						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.2	U	mg/Kg	1.2	4.9	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0226						DryWt Corrected: Y
Sulfate-Soluble	7.3		mg/Kg	1.7	4.9	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0226						DryWt Corrected: Y
Fluoride-Soluble	0.80	U	mg/Kg	0.80	4.9	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0226						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.70		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0929						DryWt Corrected: N
Percent Moisture	3.3		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJL2**

Lab Sample ID: 280-13431-12
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 03/10/2011 0955
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.74	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1452						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0243						DryWt Corrected: Y
Nitrate as N-Soluble	0.36	B	mg/Kg	0.33	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0243						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0243						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0243						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0243						DryWt Corrected: Y
Sulfate-Soluble	3.5	B	mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0243						DryWt Corrected: Y
Fluoride-Soluble	0.85	U	mg/Kg	0.85	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0243						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.30		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0931						DryWt Corrected: N
Percent Moisture	4.8		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJL3**

Lab Sample ID: 280-13431-13
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/10/2011 0950
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.38	U	mg/Kg	0.38	0.79	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1454						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0300						DryWt Corrected: Y
Nitrate as N-Soluble	0.42	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0300						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0300						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0300						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0300						DryWt Corrected: Y
Sulfate-Soluble	2.8	B	mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0300						DryWt Corrected: Y
Fluoride-Soluble	0.84	U	mg/Kg	0.84	5.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0300						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.02		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0934						DryWt Corrected: N
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

General Chemistry

Client Sample ID: **J1FJL4**

Lab Sample ID: 280-13431-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 03/10/2011 1000
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	0.72	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1455						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0317						DryWt Corrected: Y
Nitrate as N-Soluble	0.35	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0317						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0317						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0317						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0317						DryWt Corrected: Y
Sulfate-Soluble	2.4	B	mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0317						DryWt Corrected: Y
Fluoride-Soluble	0.85	U	mg/Kg	0.85	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0317						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.04		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0938						DryWt Corrected: N
Percent Moisture	3.2		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FJL5**

Lab Sample ID: 280-13431-15
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/10/2011 1005
Date Received: 03/11/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	0.77	1.0	353.2
Analysis Batch: 280-57731	Date Analyzed: 03/15/2011 1457						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0407						DryWt Corrected: Y
Nitrate as N-Soluble	0.33	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0407						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0407						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0407						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-57575	Date Analyzed: 03/15/2011 0407						DryWt Corrected: Y
Sulfate-Soluble	2.9	B	mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0407						DryWt Corrected: Y
Fluoride-Soluble	0.85	U	mg/Kg	0.85	5.2	1.0	9056M
Analysis Batch: 280-57577	Date Analyzed: 03/15/2011 0407						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.82		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-57365	Date Analyzed: 03/12/2011 0942						DryWt Corrected: N
Percent Moisture	5.1		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-57159	Date Analyzed: 03/12/2011 0800						DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-57232					
LCS 280-57232/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-57232/1-A	Method Blank	T	Solid	3550C	
280-13431-1	J1FJK1	T	Solid	3550C	
280-13431-1MS	Matrix Spike	T	Solid	3550C	
280-13431-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13431-2	J1FJK2	T	Solid	3550C	
280-13431-3	J1FJK3	T	Solid	3550C	
280-13431-4	J1FJK4	T	Solid	3550C	
280-13431-5	J1FJK5	T	Solid	3550C	
280-13431-6	J1FJK6	T	Solid	3550C	
280-13431-7	J1FJK7	T	Solid	3550C	
280-13431-8	J1FJK8	T	Solid	3550C	
280-13431-9	J1FJK9	T	Solid	3550C	
280-13431-10	J1FJL0	T	Solid	3550C	
280-13431-11	J1FJL1	T	Solid	3550C	
280-13431-12	J1FJL2	T	Solid	3550C	
280-13431-13	J1FJL3	T	Solid	3550C	
280-13431-14	J1FJL4	T	Solid	3550C	
280-13431-15	J1FJL5	T	Solid	3550C	
Analysis Batch:280-58142					
LCS 280-57232/2-A	Lab Control Sample	T	Solid	8082	280-57232
MB 280-57232/1-A	Method Blank	T	Solid	8082	280-57232
280-13431-1	J1FJK1	T	Solid	8082	280-57232
280-13431-1MS	Matrix Spike	T	Solid	8082	280-57232
280-13431-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-57232
280-13431-2	J1FJK2	T	Solid	8082	280-57232
280-13431-3	J1FJK3	T	Solid	8082	280-57232
280-13431-4	J1FJK4	T	Solid	8082	280-57232
280-13431-5	J1FJK5	T	Solid	8082	280-57232
280-13431-6	J1FJK6	T	Solid	8082	280-57232
280-13431-7	J1FJK7	T	Solid	8082	280-57232
280-13431-8	J1FJK8	T	Solid	8082	280-57232
280-13431-9	J1FJK9	T	Solid	8082	280-57232
280-13431-10	J1FJL0	T	Solid	8082	280-57232
280-13431-11	J1FJL1	T	Solid	8082	280-57232
280-13431-12	J1FJL2	T	Solid	8082	280-57232
280-13431-13	J1FJL3	T	Solid	8082	280-57232
280-13431-14	J1FJL4	T	Solid	8082	280-57232
280-13431-15	J1FJL5	T	Solid	8082	280-57232

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-57257					
LCS 280-57257/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-57257/1-A	Method Blank	T	Solid	3050B	
280-13431-1	J1FJK1	T	Solid	3050B	
280-13431-1DU	Duplicate	T	Solid	3050B	
280-13431-1MS	Matrix Spike	T	Solid	3050B	
280-13431-2	J1FJK2	T	Solid	3050B	
280-13431-3	J1FJK3	T	Solid	3050B	
280-13431-4	J1FJK4	T	Solid	3050B	
280-13431-5	J1FJK5	T	Solid	3050B	
280-13431-6	J1FJK6	T	Solid	3050B	
280-13431-7	J1FJK7	T	Solid	3050B	
280-13431-8	J1FJK8	T	Solid	3050B	
280-13431-9	J1FJK9	T	Solid	3050B	
280-13431-10	J1FJL0	T	Solid	3050B	
280-13431-11	J1FJL1	T	Solid	3050B	
280-13431-12	J1FJL2	T	Solid	3050B	
280-13431-13	J1FJL3	T	Solid	3050B	
280-13431-14	J1FJL4	T	Solid	3050B	
280-13431-15	J1FJL5	T	Solid	3050B	
Prep Batch: 280-57372					
LCS 280-57372/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-57372/1-A	Method Blank	T	Solid	7471A	
280-13431-1	J1FJK1	T	Solid	7471A	
280-13431-2	J1FJK2	T	Solid	7471A	
280-13431-3	J1FJK3	T	Solid	7471A	
280-13431-4	J1FJK4	T	Solid	7471A	
280-13431-5	J1FJK5	T	Solid	7471A	
280-13431-6	J1FJK6	T	Solid	7471A	
280-13431-7	J1FJK7	T	Solid	7471A	
280-13431-8	J1FJK8	T	Solid	7471A	
280-13431-9	J1FJK9	T	Solid	7471A	
280-13431-10	J1FJL0	T	Solid	7471A	
280-13431-11	J1FJL1	T	Solid	7471A	
280-13431-11DU	Duplicate	T	Solid	7471A	
280-13431-11MS	Matrix Spike	T	Solid	7471A	
280-13431-12	J1FJL2	T	Solid	7471A	
280-13431-13	J1FJL3	T	Solid	7471A	
280-13431-14	J1FJL4	T	Solid	7471A	
280-13431-15	J1FJL5	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-57714					
LCS 280-57372/2-A	Lab Control Sample	T	Solid	7471A	280-57372
MB 280-57372/1-A	Method Blank	T	Solid	7471A	280-57372
280-13431-1	J1FJK1	T	Solid	7471A	280-57372
280-13431-2	J1FJK2	T	Solid	7471A	280-57372
280-13431-3	J1FJK3	T	Solid	7471A	280-57372
280-13431-4	J1FJK4	T	Solid	7471A	280-57372
280-13431-5	J1FJK5	T	Solid	7471A	280-57372
280-13431-6	J1FJK6	T	Solid	7471A	280-57372
280-13431-7	J1FJK7	T	Solid	7471A	280-57372
280-13431-8	J1FJK8	T	Solid	7471A	280-57372
280-13431-9	J1FJK9	T	Solid	7471A	280-57372
280-13431-10	J1FJL0	T	Solid	7471A	280-57372
280-13431-11	J1FJL1	T	Solid	7471A	280-57372
280-13431-11DU	Duplicate	T	Solid	7471A	280-57372
280-13431-11MS	Matrix Spike	T	Solid	7471A	280-57372
280-13431-13	J1FJL3	T	Solid	7471A	280-57372
280-13431-14	J1FJL4	T	Solid	7471A	280-57372
280-13431-15	J1FJL5	T	Solid	7471A	280-57372
Analysis Batch:280-57719					
LCS 280-57257/2-A	Lab Control Sample	T	Solid	6010B	280-57257
MB 280-57257/1-A	Method Blank	T	Solid	6010B	280-57257
280-13431-1	J1FJK1	T	Solid	6010B	280-57257
280-13431-1DU	Duplicate	T	Solid	6010B	280-57257
280-13431-1MS	Matrix Spike	T	Solid	6010B	280-57257
280-13431-2	J1FJK2	T	Solid	6010B	280-57257
280-13431-3	J1FJK3	T	Solid	6010B	280-57257
280-13431-4	J1FJK4	T	Solid	6010B	280-57257
280-13431-5	J1FJK5	T	Solid	6010B	280-57257
280-13431-6	J1FJK6	T	Solid	6010B	280-57257
280-13431-7	J1FJK7	T	Solid	6010B	280-57257
280-13431-8	J1FJK8	T	Solid	6010B	280-57257
280-13431-9	J1FJK9	T	Solid	6010B	280-57257
280-13431-10	J1FJL0	T	Solid	6010B	280-57257
280-13431-11	J1FJL1	T	Solid	6010B	280-57257
280-13431-12	J1FJL2	T	Solid	6010B	280-57257
280-13431-13	J1FJL3	T	Solid	6010B	280-57257
280-13431-14	J1FJL4	T	Solid	6010B	280-57257
280-13431-15	J1FJL5	T	Solid	6010B	280-57257

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-58015					
LCS 280-57257/2-A	Lab Control Sample	T	Solid	6010B	280-57257
MB 280-57257/1-A	Method Blank	T	Solid	6010B	280-57257
280-13431-1	J1FJK1	T	Solid	6010B	280-57257
280-13431-1DU	Duplicate	T	Solid	6010B	280-57257
280-13431-1MS	Matrix Spike	T	Solid	6010B	280-57257
280-13431-2	J1FJK2	T	Solid	6010B	280-57257
280-13431-3	J1FJK3	T	Solid	6010B	280-57257
280-13431-4	J1FJK4	T	Solid	6010B	280-57257
280-13431-5	J1FJK5	T	Solid	6010B	280-57257
280-13431-6	J1FJK6	T	Solid	6010B	280-57257
280-13431-7	J1FJK7	T	Solid	6010B	280-57257
280-13431-8	J1FJK8	T	Solid	6010B	280-57257
280-13431-9	J1FJK9	T	Solid	6010B	280-57257
280-13431-10	J1FJL0	T	Solid	6010B	280-57257
280-13431-11	J1FJL1	T	Solid	6010B	280-57257
280-13431-12	J1FJL2	T	Solid	6010B	280-57257
280-13431-13	J1FJL3	T	Solid	6010B	280-57257
280-13431-14	J1FJL4	T	Solid	6010B	280-57257
280-13431-15	J1FJL5	T	Solid	6010B	280-57257
Analysis Batch:280-58024					
280-13431-12	J1FJL2	T	Solid	7471A	280-57372

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-57144					
280-13431-1	J1FJK1	S	Solid	DI Leach	
280-13431-1DU	Duplicate	S	Solid	DI Leach	
280-13431-2	J1FJK2	S	Solid	DI Leach	
280-13431-3	J1FJK3	S	Solid	DI Leach	
280-13431-4	J1FJK4	S	Solid	DI Leach	
280-13431-5	J1FJK5	S	Solid	DI Leach	
280-13431-6	J1FJK6	S	Solid	DI Leach	
280-13431-7	J1FJK7	S	Solid	DI Leach	
280-13431-8	J1FJK8	S	Solid	DI Leach	
280-13431-9	J1FJK9	S	Solid	DI Leach	
280-13431-10	J1FJL0	S	Solid	DI Leach	
280-13431-10DU	Duplicate	S	Solid	DI Leach	
280-13431-11	J1FJL1	S	Solid	DI Leach	
280-13431-12	J1FJL2	S	Solid	DI Leach	
280-13431-13	J1FJL3	S	Solid	DI Leach	
280-13431-14	J1FJL4	S	Solid	DI Leach	
280-13431-15	J1FJL5	S	Solid	DI Leach	
Analysis Batch:280-57159					
280-13431-1	J1FJK1	T	Solid	D-2216	
280-13431-1DU	Duplicate	T	Solid	D-2216	
280-13431-2	J1FJK2	T	Solid	D-2216	
280-13431-3	J1FJK3	T	Solid	D-2216	
280-13431-4	J1FJK4	T	Solid	D-2216	
280-13431-5	J1FJK5	T	Solid	D-2216	
280-13431-6	J1FJK6	T	Solid	D-2216	
280-13431-7	J1FJK7	T	Solid	D-2216	
280-13431-8	J1FJK8	T	Solid	D-2216	
280-13431-9	J1FJK9	T	Solid	D-2216	
280-13431-10	J1FJL0	T	Solid	D-2216	
280-13431-11	J1FJL1	T	Solid	D-2216	
280-13431-12	J1FJL2	T	Solid	D-2216	
280-13431-13	J1FJL3	T	Solid	D-2216	
280-13431-14	J1FJL4	T	Solid	D-2216	
280-13431-15	J1FJL5	T	Solid	D-2216	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-57336					
LCS 280-57336/1-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-57336/2-A	Method Blank	S	Solid	DI Leach	
280-13431-1	J1FJK1	S	Solid	DI Leach	
280-13431-2	J1FJK2	S	Solid	DI Leach	
280-13431-3	J1FJK3	S	Solid	DI Leach	
280-13431-4	J1FJK4	S	Solid	DI Leach	
280-13431-5	J1FJK5	S	Solid	DI Leach	
280-13431-6	J1FJK6	S	Solid	DI Leach	
280-13431-7	J1FJK7	S	Solid	DI Leach	
280-13431-8	J1FJK8	S	Solid	DI Leach	
280-13431-8DU	Duplicate	S	Solid	DI Leach	
280-13431-8MS	Matrix Spike	S	Solid	DI Leach	
280-13431-9	J1FJK9	S	Solid	DI Leach	
280-13431-10	J1FJL0	S	Solid	DI Leach	
280-13431-11	J1FJL1	S	Solid	DI Leach	
280-13431-12	J1FJL2	S	Solid	DI Leach	
280-13431-13	J1FJL3	S	Solid	DI Leach	
280-13431-14	J1FJL4	S	Solid	DI Leach	
280-13431-15	J1FJL5	S	Solid	DI Leach	
Analysis Batch:280-57365					
LCS 280-57365/17	Lab Control Sample	T	Water	9045C	
LCS 280-57365/4	Lab Control Sample	T	Water	9045C	
LCSD 280-57365/18	Lab Control Sample Duplicate	T	Water	9045C	
LCSD 280-57365/5	Lab Control Sample Duplicate	T	Water	9045C	
280-13431-1	J1FJK1	S	Solid	9045C	
280-13431-1DU	Duplicate	S	Solid	9045C	
280-13431-2	J1FJK2	S	Solid	9045C	
280-13431-3	J1FJK3	S	Solid	9045C	
280-13431-4	J1FJK4	S	Solid	9045C	
280-13431-5	J1FJK5	S	Solid	9045C	
280-13431-6	J1FJK6	S	Solid	9045C	
280-13431-7	J1FJK7	S	Solid	9045C	
280-13431-8	J1FJK8	S	Solid	9045C	
280-13431-9	J1FJK9	S	Solid	9045C	
280-13431-10	J1FJL0	S	Solid	9045C	
280-13431-10DU	Duplicate	S	Solid	9045C	
280-13431-11	J1FJL1	S	Solid	9045C	
280-13431-12	J1FJL2	S	Solid	9045C	
280-13431-13	J1FJL3	S	Solid	9045C	
280-13431-14	J1FJL4	S	Solid	9045C	
280-13431-15	J1FJL5	S	Solid	9045C	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-57478					
LCS 280-57478/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-57478/1-A	Method Blank	S	Solid	DI Leach	
280-13431-1	J1FJK1	S	Solid	DI Leach	
280-13431-1DU	Duplicate	S	Solid	DI Leach	
280-13431-1MS	Matrix Spike	S	Solid	DI Leach	
280-13431-2	J1FJK2	S	Solid	DI Leach	
280-13431-3	J1FJK3	S	Solid	DI Leach	
280-13431-4	J1FJK4	S	Solid	DI Leach	
280-13431-5	J1FJK5	S	Solid	DI Leach	
280-13431-6	J1FJK6	S	Solid	DI Leach	
280-13431-7	J1FJK7	S	Solid	DI Leach	
280-13431-8	J1FJK8	S	Solid	DI Leach	
280-13431-8DU	Duplicate	S	Solid	DI Leach	
280-13431-8MS	Matrix Spike	S	Solid	DI Leach	
280-13431-9	J1FJK9	S	Solid	DI Leach	
280-13431-10	J1FJL0	S	Solid	DI Leach	
280-13431-11	J1FJL1	S	Solid	DI Leach	
280-13431-12	J1FJL2	S	Solid	DI Leach	
280-13431-13	J1FJL3	S	Solid	DI Leach	
280-13431-14	J1FJL4	S	Solid	DI Leach	
280-13431-15	J1FJL5	S	Solid	DI Leach	
Analysis Batch:280-57575					
LCS 280-57336/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-57336/2-A	Method Blank	S	Solid	9056M	
280-13431-1	J1FJK1	S	Solid	9056M	
280-13431-2	J1FJK2	S	Solid	9056M	
280-13431-3	J1FJK3	S	Solid	9056M	
280-13431-4	J1FJK4	S	Solid	9056M	
280-13431-5	J1FJK5	S	Solid	9056M	
280-13431-6	J1FJK6	S	Solid	9056M	
280-13431-7	J1FJK7	S	Solid	9056M	
280-13431-8	J1FJK8	S	Solid	9056M	
280-13431-8DU	Duplicate	S	Solid	9056M	
280-13431-8MS	Matrix Spike	S	Solid	9056M	
280-13431-9	J1FJK9	S	Solid	9056M	
280-13431-10	J1FJL0	S	Solid	9056M	
280-13431-11	J1FJL1	S	Solid	9056M	
280-13431-12	J1FJL2	S	Solid	9056M	
280-13431-13	J1FJL3	S	Solid	9056M	
280-13431-14	J1FJL4	S	Solid	9056M	
280-13431-15	J1FJL5	S	Solid	9056M	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-57577					
LCS 280-57336/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-57336/2-A	Method Blank	S	Solid	9056M	
280-13431-1	J1FJK1	S	Solid	9056M	
280-13431-2	J1FJK2	S	Solid	9056M	
280-13431-3	J1FJK3	S	Solid	9056M	
280-13431-4	J1FJK4	S	Solid	9056M	
280-13431-5	J1FJK5	S	Solid	9056M	
280-13431-6	J1FJK6	S	Solid	9056M	
280-13431-7	J1FJK7	S	Solid	9056M	
280-13431-8	J1FJK8	S	Solid	9056M	
280-13431-8DU	Duplicate	S	Solid	9056M	
280-13431-8MS	Matrix Spike	S	Solid	9056M	
280-13431-9	J1FJK9	S	Solid	9056M	
280-13431-10	J1FJL0	S	Solid	9056M	
280-13431-11	J1FJL1	S	Solid	9056M	
280-13431-12	J1FJL2	S	Solid	9056M	
280-13431-13	J1FJL3	S	Solid	9056M	
280-13431-14	J1FJL4	S	Solid	9056M	
280-13431-15	J1FJL5	S	Solid	9056M	
Analysis Batch:280-57731					
LCS 280-57478/2-A	Lab Control Sample	S	Solid	353.2	
MB 280-57478/1-A	Method Blank	S	Solid	353.2	
280-13431-1	J1FJK1	S	Solid	353.2	
280-13431-1DU	Duplicate	S	Solid	353.2	
280-13431-1MS	Matrix Spike	S	Solid	353.2	
280-13431-2	J1FJK2	S	Solid	353.2	
280-13431-3	J1FJK3	S	Solid	353.2	
280-13431-4	J1FJK4	S	Solid	353.2	
280-13431-5	J1FJK5	S	Solid	353.2	
280-13431-6	J1FJK6	S	Solid	353.2	
280-13431-7	J1FJK7	S	Solid	353.2	
280-13431-8	J1FJK8	S	Solid	353.2	
280-13431-8DU	Duplicate	S	Solid	353.2	
280-13431-8MS	Matrix Spike	S	Solid	353.2	
280-13431-9	J1FJK9	S	Solid	353.2	
280-13431-10	J1FJL0	S	Solid	353.2	
280-13431-11	J1FJL1	S	Solid	353.2	
280-13431-12	J1FJL2	S	Solid	353.2	
280-13431-13	J1FJL3	S	Solid	353.2	
280-13431-14	J1FJL4	S	Solid	353.2	
280-13431-15	J1FJL5	S	Solid	353.2	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-57242					
LCS 280-57242/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-57242/1-A	Method Blank	T	Solid	3550C	
280-13431-1	J1FJK1	T	Solid	3550C	
280-13431-2	J1FJK2	T	Solid	3550C	
280-13431-3	J1FJK3	T	Solid	3550C	
280-13431-4	J1FJK4	T	Solid	3550C	
280-13431-5	J1FJK5	T	Solid	3550C	
280-13431-6	J1FJK6	T	Solid	3550C	
280-13431-7	J1FJK7	T	Solid	3550C	
280-13431-8	J1FJK8	T	Solid	3550C	
280-13431-8MS	Matrix Spike	T	Solid	3550C	
280-13431-8MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13431-9	J1FJK9	T	Solid	3550C	
280-13431-10	J1FJL0	T	Solid	3550C	
280-13431-11	J1FJL1	T	Solid	3550C	
280-13431-12	J1FJL2	T	Solid	3550C	
280-13431-13	J1FJL3	T	Solid	3550C	
280-13431-14	J1FJL4	T	Solid	3550C	
280-13431-15	J1FJL5	T	Solid	3550C	
Analysis Batch:280-58054					
LCS 280-57242/2-A	Lab Control Sample	T	Solid	8310	280-57242
MB 280-57242/1-A	Method Blank	T	Solid	8310	280-57242
280-13431-1	J1FJK1	T	Solid	8310	280-57242
280-13431-2	J1FJK2	T	Solid	8310	280-57242
280-13431-3	J1FJK3	T	Solid	8310	280-57242
280-13431-4	J1FJK4	T	Solid	8310	280-57242
280-13431-5	J1FJK5	T	Solid	8310	280-57242
280-13431-6	J1FJK6	T	Solid	8310	280-57242
280-13431-7	J1FJK7	T	Solid	8310	280-57242
280-13431-8	J1FJK8	T	Solid	8310	280-57242
280-13431-8MS	Matrix Spike	T	Solid	8310	280-57242
280-13431-8MSD	Matrix Spike Duplicate	T	Solid	8310	280-57242
280-13431-9	J1FJK9	T	Solid	8310	280-57242
280-13431-10	J1FJL0	T	Solid	8310	280-57242
280-13431-11	J1FJL1	T	Solid	8310	280-57242
280-13431-12	J1FJL2	T	Solid	8310	280-57242
280-13431-13	J1FJL3	T	Solid	8310	280-57242
280-13431-14	J1FJL4	T	Solid	8310	280-57242
280-13431-15	J1FJL5	T	Solid	8310	280-57242

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Method Blank - Batch: 280-57232

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-57232/1-A	Analysis Batch:	280-58142	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-57232	Lab File ID:	036F3601.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	31.7 g
Date Analyzed:	03/17/2011 0434			Final Weight/Volume:	5000 uL
Date Prepared:	03/13/2011 1510			Injection Volume:	1 uL
				Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.6	U	2.6	9.5
Aroclor 1221	7.6	U	7.6	16
Aroclor 1232	1.9	U	1.9	9.5
Aroclor 1242	4.4	U	4.4	9.5
Aroclor 1248	4.4	U	4.4	9.5
Aroclor 1254	2.5	U	2.5	9.5
Aroclor 1260	2.5	U	2.5	9.5

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	82	59 - 130
Tetrachloro-m-xylene	84	53 - 128

Lab Control Sample - Batch: 280-57232

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-57232/2-A	Analysis Batch:	280-58142	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-57232	Lab File ID:	037F3701.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.8 g
Date Analyzed:	03/17/2011 0506			Final Weight/Volume:	5000 uL
Date Prepared:	03/13/2011 1510			Injection Volume:	1 uL
				Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	32.5	32.9	101	54 - 132	
Aroclor 1260	32.5	33.7	104	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	84	59 - 130
Tetrachloro-m-xylene	88	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57232

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-13431-1	Analysis Batch: 280-58142	Instrument ID: GCS_W
Client Matrix:	Solid	Prep Batch: 280-57232	Lab File ID: 039F3901.D
Dilution:	1.0		Initial Weight/Volume: 30.2 g
Date Analyzed:	03/17/2011 0610		Final Weight/Volume: 5000 uL
Date Prepared:	03/13/2011 1510		Injection Volume: 1 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13431-1	Analysis Batch: 280-58142	Instrument ID: GCS_W
Client Matrix:	Solid	Prep Batch: 280-57232	Lab File ID: 040F4001.D
Dilution:	1.0		Initial Weight/Volume: 30.3 g
Date Analyzed:	03/17/2011 0642		Final Weight/Volume: 5000 uL
Date Prepared:	03/13/2011 1510		Injection Volume: 1 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	89	99	54 - 132	10	26		
Aroclor 1260	92	102	62 - 129	10	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	75	82	59 - 130
Tetrachloro-m-xylene	78	86	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Method Blank - Batch: 280-57242

Method: 8310
Preparation: 3550C

Lab Sample ID: MB 280-57242/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/17/2011 1121
Date Prepared: 03/13/2011 1545

Analysis Batch: 280-58054
Prep Batch: 280-57242
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0317008.D
Initial Weight/Volume: 30.4 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.9	U	9.9	99
Acenaphthylene	8.9	U	8.9	99
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.1	U	3.1	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.1	U	4.1	15
Benzo[g,h,i]perylene	7.1	U	7.1	30
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.8	U	4.8	39
Dibenzo(a,h)anthracene	11	U	11	30
Fluoranthene	13	U	13	39
Fluorene	5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene	12	U	12	30
Naphthalene	12	U	12	99
Phenanthrene	12	U	12	39
Pyrene	12	U	12	39

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	103	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Lab Control Sample - Batch: 280-57242

Method: 8310
Preparation: 3550C

Lab Sample ID: LCS 280-57242/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/17/2011 1151
Date Prepared: 03/13/2011 1545

Analysis Batch: 280-58054
Prep Batch: 280-57242
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0317009.D
Initial Weight/Volume: 30.5 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1970	1770	90	72 - 115	
Acenaphthylene	1970	1680	86	60 - 115	
Anthracene	1970	1620	82	61 - 115	
Benzo[a]anthracene	1970	1930	98	76 - 115	
Benzo[a]pyrene	1970	1570	80	69 - 115	
Benzo[b]fluoranthene	1970	1830	93	81 - 115	
Benzo[g,h,i]perylene	1970	1800	92	71 - 115	
Benzo[k]fluoranthene	1970	1840	93	85 - 115	
Chrysene	1970	1800	91	70 - 115	
Dibenzo(a,h)anthracene	1970	1850	94	79 - 115	
Fluoranthene	1970	1820	93	67 - 115	
Fluorene	1970	1740	89	72 - 115	
Indeno[1,2,3-cd]pyrene	1970	1970	100	76 - 115	
Naphthalene	1970	1800	91	77 - 115	
Phenanthrene	1970	1800	91	79 - 115	
Pyrene	1970	1840	93	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	99	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57242

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-13431-8	Analysis Batch: 280-58054	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-57242	Lab File ID: G0317019.D
Dilution:	1.0		Initial Weight/Volume: 30.1 g
Date Analyzed:	03/17/2011 1657		Final Weight/Volume: 4000 uL
Date Prepared:	03/13/2011 1545		Injection Volume: 20 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13431-8	Analysis Batch: 280-58054	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-57242	Lab File ID: G0317020.D
Dilution:	1.0		Initial Weight/Volume: 30.1 g
Date Analyzed:	03/17/2011 1727		Final Weight/Volume: 4000 uL
Date Prepared:	03/13/2011 1545		Injection Volume: 20 uL
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	93	91	72 - 115	2	20		
Acenaphthylene	90	88	60 - 115	2	21		
Anthracene	85	82	61 - 115	3	20		
Benzo[a]anthracene	101	97	76 - 115	4	20		
Benzo[a]pyrene	82	79	69 - 115	5	20		
Benzo[b]fluoranthene	96	92	81 - 115	4	20		
Benzo[g,h,i]perylene	95	91	71 - 115	4	20		
Benzo[k]fluoranthene	97	93	85 - 115	4	20		
Chrysene	95	91	70 - 115	4	20		
Dibenzo(a,h)anthracene	97	93	79 - 115	4	20		
Fluoranthene	96	92	67 - 115	4	20		
Fluorene	93	90	72 - 115	3	20		
Indeno[1,2,3-cd]pyrene	103	99	76 - 115	4	20		
Naphthalene	97	95	77 - 115	2	20		
Phenanthrene	95	92	79 - 115	3	20		
Pyrene	97	93	77 - 115	4	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	102	98	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Method Blank - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-57257/1-A	Analysis Batch:	280-57719	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-57257	Lab File ID:	26a031511.asc
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1 g
Date Analyzed:	03/15/2011 1549			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

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	0.166	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
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	0.471	B	0.40	1.0

Method Blank - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-57257/1-A	Analysis Batch:	280-58015	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-57257	Lab File ID:	26a031611.asc
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1 g
Date Analyzed:	03/16/2011 1227			Final Weight/Volume:	100 mL
Date Prepared:	03/14/2011 1800				

Analyte	Result	Qual	MDL	RL
Selenium	0.86	U	0.86	1.0

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Lab Control Sample - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-57257/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1551
Date Prepared: 03/14/2011 1800

Analysis Batch: 280-57719
Prep Batch: 280-57257
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a031511.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	185.7	93	82 - 116	
Antimony	50.0	51.53	103	82 - 110	
Arsenic	100	92.95	93	85 - 110	
Barium	200	196.2	98	87 - 112	
Beryllium	5.00	4.88	98	84 - 114	
Boron	100	94.24	94	81 - 110	
Cadmium	10.0	9.38	94	87 - 110	
Calcium	5000	4722	94	82 - 114	
Chromium	20.0	19.68	98	84 - 114	
Cobalt	50.0	48.26	97	87 - 110	
Copper	25.0	24.58	98	88 - 110	
Iron	100	101.6	102	87 - 120	
Lead	50.0	50.36	101	86 - 110	
Magnesium	5000	4863	97	90 - 110	
Manganese	50.0	49.01	98	88 - 110	
Molybdenum	100	107.7	108	86 - 110	
Nickel	50.0	49.02	98	87 - 110	
Potassium	5000	5030	101	89 - 110	
Silicon	1000	131.2	13	10 - 70	
Silver	5.00	4.90	98	87 - 114	
Sodium	5000	5292	106	90 - 112	
Vanadium	50.0	48.89	98	88 - 110	
Zinc	50.0	49.24	98	76 - 114	

Lab Control Sample - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-57257/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1229
Date Prepared: 03/14/2011 1800

Analysis Batch: 280-58015
Prep Batch: 280-57257
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a031611.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Selenium	200	205.2	103	83 - 110	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Matrix Spike - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13431-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1558
Date Prepared: 03/14/2011 1800

Analysis Batch: 280-57719
Prep Batch: 280-57257
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a031511.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6720		220	8540	828	50 - 200	4
Antimony	0.40	U	55.0	36.03	66	20 - 200	
Arsenic	2.0		110	98.32	88	76 - 111	
Barium	36.8		220	248.1	96	52 - 159	
Beryllium	0.035	U	5.50	5.09	93	72 - 105	
Boron	1.0	B	110	96.03	86	75 - 107	
Cadmium	0.044	B	11.0	9.87	89	40 - 130	
Calcium	5430		5500	11340	107	43 - 165	
Chromium	9.8		22.0	31.92	101	70 - 200	
Cobalt	5.0		55.0	54.84	91	72 - 106	
Copper	16.9		27.5	43.81	98	37 - 187	
Iron	13100		110	14620	1360	70 - 200	4
Lead	2.4		55.0	53.86	94	70 - 200	
Magnesium	4790		5500	10460	103	64 - 145	
Manganese	292		55.0	363.6	131	40 - 200	4
Molybdenum	0.44	B	110	108.4	98	75 - 103	
Nickel	9.5		55.0	60.20	92	61 - 126	
Potassium	731		5500	6321	102	56 - 172	
Silicon	136		1100	478.9	31	20 - 200	
Silver	0.17	U	5.50	5.19	94	75 - 141	
Sodium	303		5500	6031	104	78 - 111	
Vanadium	35.4		55.0	92.20	103	50 - 169	
Zinc	29.5		55.0	81.74	95	70 - 200	

Matrix Spike - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13431-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1236
Date Prepared: 03/14/2011 1800

Analysis Batch: 280-58015
Prep Batch: 280-57257
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a031611.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Selenium	1.1	220	211.6	96	76 - 104	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Duplicate - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13431-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1600
Date Prepared: 03/14/2011 1800

Analysis Batch: 280-57719
Prep Batch: 280-57257
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a031511.asc
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6720		6981	4	40	
Antimony	0.40	U	0.43	NC	40	U
Arsenic	2.0		2.27	14	30	
Barium	36.8		35.62	3	30	
Beryllium	0.035	U	0.037	NC	30	U
Boron	1.0	B	1.1	NC	30	U
Cadmium	0.044	B	0.046	NC	30	U
Calcium	5430		5735	5	30	
Chromium	9.8		10.42	7	40	
Cobalt	5.0		5.44	8	30	
Copper	16.9		18.33	8	30	
Iron	13100		13920	6	40	
Lead	2.4		2.66	12	40	
Magnesium	4790		4990	4	30	
Manganese	292		301.7	3	40	
Molybdenum	0.44	B	0.477	9	30	B
Nickel	9.5		10.02	5	30	
Potassium	731		728.5	0.4	40	
Silicon	136		159.8	16	40	
Silver	0.17	U	0.18	NC	30	U
Sodium	303		304.6	0.6	30	
Vanadium	35.4		35.66	0.8	30	
Zinc	29.5		31.30	6	40	

Duplicate - Batch: 280-57257

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13431-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1238
Date Prepared: 03/14/2011 1800

Analysis Batch: 280-58015
Prep Batch: 280-57257
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a031611.asc
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Selenium	1.1	1.12	4	30	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Method Blank - Batch: 280-57372

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 280-57372/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1759
Date Prepared: 03/15/2011 0945

Analysis Batch: 280-57714
Prep Batch: 280-57372
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110315AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-57372

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 280-57372/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1801
Date Prepared: 03/15/2011 0945

Analysis Batch: 280-57714
Prep Batch: 280-57372
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110315AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.436	105	87 - 111	

Matrix Spike - Batch: 280-57372

Method: 7471A
Preparation: 7471A

Lab Sample ID: 280-13431-11
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1836
Date Prepared: 03/15/2011 0945

Analysis Batch: 280-57714
Prep Batch: 280-57372
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110315AD.txt
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.061	0.398	0.448	97	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Duplicate - Batch: 280-57372

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13431-11	Analysis Batch:	280-57714	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-57372	Lab File ID:	110315AD.txt
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.65 g
Date Analyzed:	03/15/2011 1834			Final Weight/Volume:	50 mL
Date Prepared:	03/15/2011 0945				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.061	0.0648	6	20	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Method Blank - Batch: 280-57731

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-57478/1-A	Analysis Batch:	280-57731	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0315ANXN.RST
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/15/2011 1409			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/12/2011 1200	Leachate Batch:	280-57478		

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N-Soluble	0.36	U	0.36	0.75

Method Reporting Limit Check - Batch: 280-57731

Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-57731/17	Analysis Batch:	280-57731	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0315ANXN.RST
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	100 mL
Date Analyzed:	03/15/2011 1355			Final Weight/Volume:	100 mL
Date Prepared:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.100	0.0927	93	50 - 150	B

Lab Control Sample - Batch: 280-57731

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 280-57478/2-A	Analysis Batch:	280-57731	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0315ANXN.RST
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/15/2011 1410			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/12/2011 1200	Leachate Batch:	280-57478		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	48.5	47.66	98	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Matrix Spike - Batch: 280-57731

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13431-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1424
Date Prepared: N/A
Date Leached: 03/12/2011 1200

Analysis Batch: 280-57731
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-57478

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0315ANXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.96	44.0	45.41	101	90 - 110	

Matrix Spike - Batch: 280-57731

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13431-8
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1446
Date Prepared: N/A
Date Leached: 03/12/2011 1200

Analysis Batch: 280-57731
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-57478

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0315ANXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.36	U	40.3	41.08	102	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Duplicate - Batch: 280-57731

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13431-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1422
Date Prepared: N/A
Date Leached: 03/12/2011 1200

Analysis Batch: 280-57731
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-57478

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0315ANXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	0.96		0.867	10	10	

Duplicate - Batch: 280-57731

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13431-8
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/15/2011 1436
Date Prepared: N/A
Date Leached: 03/12/2011 1200

Analysis Batch: 280-57731
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-57478

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0315ANXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	0.36	U	0.35	NC	10	U

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-57365

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-57365/4	Analysis Batch: 280-57365	Instrument ID: WC_pH Probe
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0	Units: SU	Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/12/2011 0844		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

LCSD Lab Sample ID:	LCSD 280-57365/5	Analysis Batch: 280-57365	Instrument ID: WC_pH Probe
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0	Units: SU	Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/12/2011 0845		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
pH adj. to 25 deg C-Soluble	100	100	97 - 103	0	5		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-57365

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-57365/17	Analysis Batch: 280-57365	Instrument ID: WC_pH Probe
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0	Units: SU	Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/12/2011 0920		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

LCSD Lab Sample ID:	LCSD 280-57365/18	Analysis Batch: 280-57365	Instrument ID: WC_pH Probe
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0	Units: SU	Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/12/2011 0920		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
pH adj. to 25 deg C-Soluble	100	100	97 - 103	0	5		

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Duplicate - Batch: 280-57365

Method: 9045C
Preparation: N/A

Lab Sample ID:	280-13431-1	Analysis Batch: 280-57365	Instrument ID: WC_pH Probe
Client Matrix:	Solid	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0	Units: SU	Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/12/2011 0851		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		
Date Leached:	03/11/2011 1818	Leachate Batch: 280-57144	

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	9.30	9.300	0	5	

Duplicate - Batch: 280-57365

Method: 9045C
Preparation: N/A

Lab Sample ID:	280-13431-10	Analysis Batch: 280-57365	Instrument ID: WC_pH Probe
Client Matrix:	Solid	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0	Units: SU	Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/12/2011 0925		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		
Date Leached:	03/11/2011 1818	Leachate Batch: 280-57144	

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	9.13	9.100	0.3	5	

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Method Blank - Batch: 280-57575

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-57336/2-A	Analysis Batch:	280-57575	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	155.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/14/2011 2214			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Result	Qual	MDL	RL
Nitrate as N-Soluble	0.31	U	0.31	2.5
Nitrite as N-Soluble	0.34	U	0.34	2.5
Orthophosphate as P-Soluble	1.2	U	1.2	5.0

Lab Control Sample - Batch: 280-57575

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-57336/1-A	Analysis Batch:	280-57575	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	154.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/14/2011 2157			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	50.0	50.31	101	90 - 110	
Nitrite as N-Soluble	50.0	50.02	100	90 - 110	
Orthophosphate as P-Soluble	50.0	47.74	95	90 - 110	

Matrix Spike - Batch: 280-57575

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-13431-8	Analysis Batch:	280-57575	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	167.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/15/2011 0136			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	0.37	B	50.4	50.12	99	80 - 120	
Nitrite as N-Soluble	0.34	U	50.4	50.77	101	80 - 120	
Orthophosphate as P-Soluble	1.2	U	50.4	50.64	100	80 - 120	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Duplicate - Batch: 280-57575

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-13431-8	Analysis Batch:	280-57575	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	166.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/15/2011 0119			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate as N-Soluble	0.37	B	0.33	NC	15	U
Nitrite as N-Soluble	0.34	U	0.35	NC	15	U
Orthophosphate as P-Soluble	1.2	U	1.3	NC	15	U

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Method Blank - Batch: 280-57577

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-57336/2-A	Analysis Batch:	280-57577	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	155.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/14/2011 2214			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Result	Qual	MDL	RL
Chloride-Soluble	2.0	U	2.0	5.0
Bromide-Soluble	0.39	U	0.39	2.0
Sulfate-Soluble	1.7	U	1.7	5.0
Fluoride-Soluble	0.82	U	0.82	5.0

Lab Control Sample - Batch: 280-57577

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-57336/1-A	Analysis Batch:	280-57577	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	154.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/14/2011 2157			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	250	250.9	100	90 - 110	
Bromide-Soluble	50.0	49.84	100	90 - 110	
Sulfate-Soluble	250	251.5	101	90 - 110	
Fluoride-Soluble	50.0	51.81	104	90 - 110	

Matrix Spike - Batch: 280-57577

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-13431-8	Analysis Batch:	280-57577	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	167.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/15/2011 0136			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	2.0	U	252	257.7	102	80 - 120	
Bromide-Soluble	0.39	U	50.4	50.23	100	80 - 120	
Sulfate-Soluble	3.5	B	252	254.6	100	80 - 120	
Fluoride-Soluble	0.83	U	50.4	48.38	96	80 - 120	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Duplicate - Batch: 280-57577

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-13431-8	Analysis Batch:	280-57577	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	166.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/15/2011 0119			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/14/2011 1033	Leachate Batch:	280-57336		

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride-Soluble	2.0	U	2.0	NC	15	U
Bromide-Soluble	0.39	U	0.40	NC	15	U
Sulfate-Soluble	3.5	B	3.57	3	15	B
Fluoride-Soluble	0.83	U	0.85	NC	15	U

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13431-1
Sdg Number: JP0118

Duplicate - Batch: 280-57159

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13431-1	Analysis Batch:	280-57159	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Units:	%	Initial Weight/Volume:	
Date Analyzed:	03/12/2011 0800			Final Weight/Volume:	
Date Prepared:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	12.6	13.4	6	20	

1.8°C IR 3/11/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-045	Page 1 of 3

Collector: J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B TRE 3-10-11	Data Turnaround: ~~21~~ 7 Days TRE 3-10-11		
Project Designation: 100-H Burial Grounds Remaining Sites - Soil In-Process	Sampling Location: 132-H-3		SAF No.: RC-110
Ice Chest No.: AFS-06-003	Field Logbook No.: EL 1627-04	COA: 0132H32600	Method of Shipment: ~~Gov. Vehicle~~ TRE 3-10-11 FED EX
Shipped To: EBERLINE SERVICES / LIONVILLE (Test America Denver)	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7945 1967 1894

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Possible~~ RAD <DOT
TRE 3-10-11

Special Handling and/or Storage

Cool at 4 deg C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None		
Type of Container	G/P	G/P	G/P	aG	aG	G/P	G/P	G/P		
No. of Container(s)	1	1	0	1	0	1	0	0		
Volume	~~60mL~~ 120mL TRE 3-10-11	60mL	60mL	~~60mL~~ 120mL TRE 3-10-11	60mL	500mL	60mL	60mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 JRE 3-10-11	See item (2) in Special Instructions.	PCBs - 8082 *	PAHs - 8310	See item (3) in Special Instructions.	Carbon-14; Tritium - H3 Low Level Soil JRE 3-10-11	Nickel-63; Strontium-89,90 -- Total Sr		

Sample No.	Matrix *	Sample Date	Sample Time										
J1FJK1	SOIL	~~0900~~ TRE 3-10-11 3-10-11	0900	X		X	X	X					
J1FJK2	SOIL	3-10-11	0905	X		X	X	X					
J1FJK3	SOIL	3-10-11	0925	X		X	X	X					
J1FJK4	SOIL	3-10-11	0910	X		X	X	X					
J1FJK5	SOIL	3-10-11	0915	X		X	X	X					

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer / T.R. Edmundson WCH	3/10/11 1330	T.R. Edmundson / T.R. Edmundson	3-10-11 1330
T.R. Edmundson / T.R. Edmundson	3-10-11 1430	Fed Ex	
			3/11/11 0900

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) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}; pH (Soil) - 9045 {pH Measurement}
(3) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

*

REVIEWED BY AF DATE 3-10-11

JP0118

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-045	Page 2 of 3
Collector: J. Kuepfer	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B (JEB 3-10-11); Data Turnaround: ~~21~~ Days (JEB 3-10-11)
Project Designation: 100-H Burial Grounds Remaining Sites - Soil In-Process	Sampling Location: 132-H-3	SAF No.: RC-110	
Ice Chest No.: AFS-06-003	Field Logbook No.: EL 1627-04; COA: 0132H32600	Method of Shipment: ~~Gov. Vehicle~~ TRE 3-10-11 FED EX	
Shipped To: EBERLINE SERVICES / LIONVILLE (Test America Denver)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7945 1967 1894	

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Possible~~ RAD <DOT
TRE 3-10-11

Special Handling and/or Storage

Cool at 4 deg C

Preservation			Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None		
Type of Container			G/P	G/P	G/P	aG	aG	G/P	G/P	G/P		
No. of Container(s)			1	1	0	1	0	1	0	0		
Volume			~~60mL~~ 120 mL	60mL	60mL	~~60mL~~ 120 mL	60mL	500mL	60mL	60mL		
SAMPLE ANALYSIS			See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	PCBs - 8082	PAHs - 8310	See item (3) in Special Instructions.	Carbon-14; Tritium - H3 Low Level Soil	Nickel-63; Strontium-89,90 -- Total Sr		
Sample No.	Matrix *	Sample Date	Sample Time									
J1FJK6	SOIL	3-10-11	0908	X		X	X	X				
J1FJK7	SOIL	3-10-11	0920	X		X	X	X				
J1FJK8	SOIL	3-10-11	0930	X		X	X	X				
J1FJK9	SOIL	3-10-11	0935	X		X	X	X				
J1FJL0	SOIL	3-10-11	0940	X		X	X	X				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3/10/11 1330	J.R. Edmundson	3-10-11 1330
J.R. Edmundson WCH	3-10-11 1430	Fed Ex	
			3/11/11 0900

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) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}; pH (Soil) - 9045 {pH Measurement}
(3) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

* Sample J1FJK8 - 250 mL Bottle QW 3-10-11

JP0118

REVIEWED BY AF DATE 3-10-11

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-045	Page 3 of 3

Collector: J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B TRE 3-10-11	Data Turnaround: ~~21~~ Days 7 TRE 3-10-11		
Project Designation: 100-H Burial Grounds Remaining Sites - Soil In-Process	Sampling Location: 132-H-3		SAF No.: RC-110
Ice Chest No.: AFS-06-003	Field Logbook No.: EL 1627-04	COA: 0132H32600	Method of Shipment: ~~Gov. Vehicle~~ TRE 3-10-11 FED EX
Shipped To: EBERLINE SERVICES / LIONVILLE (Test America Denver)	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7945 1967 1894

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Possible~~ RAD <DOT
TRE 3-10-11

Special Handling and/or Storage

Cool at 4 deg C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None	None		
Type of Container	G/P	G/P	G/P	aG	aG	G/P	G/P	G/P		
No. of Container(s)	1	1	0	1	0	1	0	0		
Volume	~~60mL~~ 120 mL	60mL	60mL	~~60mL~~ 120 mL	60mL	500mL	60mL	60mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	PCBs - 8082	PAHs - 8310	See item (3) in Special Instructions.	Carbon-14; Tritium - H3 Low Level Soil	Nickel-63; Strontium-89,90 -- Total Sr		
Sample No. / Matrix * / Sample Date / Sample Time										
J1FJL1 / SOIL / 3-10-11 / 0945	X		X	X	X					
J1FJL2 / SOIL / 3-10-11 / 0955	X		X	X	X					
J1FJL3 / SOIL / 3-10-11 / 0950	X		X	X	X					
J1FJL4 / SOIL / 3-10-11 / 1000	X		X	X	X					
J1FJL5 / SOIL / 3-10-11 / 1005	X		X	X	X					

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	8/10/11 1330	T.R. Edmundson	3-10-11 1330
T.R. Edmundson WCH	3-10-11 1430	Fed Ex	
			3/11/11 0800

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) IC Anions - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}; pH (Soil) - 9045 {pH Measurement}
(3) Gamma Spec (Client List) {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY AF DATE 3-10-11

JP0118

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - 60107K solid

Analytical Due:

Report Due: 3/18/11 (Rush - 5d TAT)

167

Sample Check-in List

Date/Time Received: 13431 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: JP0118 NA[ ] SAF #: RC-110 NA [ ]

Job Number: 13431 Chain of Custody # RC-110-045

Shipping Container ID: AFS-06-003 Air Bill # 7945 1967 1894

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: 1.8 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 15
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] **Amount HNO_3 Added** ___
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

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

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/14/11

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

RICHLAND, WA 99354

FedEx. Express

J11101012220225

Ship Date: 10MAR11
ActWgt: 58.0 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

FRI - 11 MAR A1
PRIORITY OVERNIGHT

TRK# 7945 1967 1894
0201

XH WHHA

80002
CO-US
DEN

50DG2/8DD9/7EFB

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic valueof the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.