0095392

SAF-RC-107
100-H Remaining Sites Burial Grounds – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

RECEIVED
APR 18 2011
EDMC

Kathy Wendt H4-21 KW 4/7/11
NITIAL/DATE

COMMENTS:

SDG JP0127 SAF-RC-107

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

Waste Site: 116-H-5 Verification Resampling

Analytical Data Package Prepared For

Washington Closure Hanford

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 155 ***Pages***

Report No.: 46064

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.
JP0127	RC-107	J1FKL6	J1C170613-1	MFTWD1AJ	9MFTWD10	1077127
		J1FKL6	J1C170613-1	MFTWD1AF	9MFTWD10	1077129
		J1FKL6	J1C170613-1	MFTWD1AC	9MFTWD10	1077132
		J1FKL6	J1C170613-1	MFTWD1AK	9MFTWD10	1077135
		J1FKL6	J1C170613-1	MFTWD1AH	9MFTWD10	1077137
		J1FKL6	J1C170613-1	MFTWD1AE	9MFTWD10	1077140
		J1FKL6	J1C170613-1	MFTWD1AG	9MFTWD10	1077142
		J1FKL6	J1C170613-1	MFTWD1AD	9MFTWD10	1077144
		J1FKL6	J1C170613-1	MFTWD1AA	9MFTWD10	1080215
		J1FKL7	J1C170613-2	MFTWL1AJ	9MFTWL10	1077127
		J1FKL7	J1C170613-2	MFTWL1AF	9MFTWL10	1077129
		J1FKL7	J1C170613-2	MFTWL1AC	9MFTWL10	1077132
		J1FKL7	J1C170613-2	MFTWL1AK	9MFTWL10	1077135
		J1FKL7	J1C170613-2	MFTWL1AH	9MFTWL10	1077137
		J1FKL7	J1C170613-2	MFTWL1AE	9MFTWL10	1077140
		J1FKL7	J1C170613-2	MFTWL1AG	9MFTWL10	1077142
		J1FKL7	J1C170613-2	MFTWL1AD	9MFTWL10	1077144
		J1FKL7	J1C170613-2	MFTWL1AA	9MFTWL10	1080215
		J1FKL8	J1C170613-3	MFTWM1AJ	9MFTWM10	1077127
		J1FKL8	J1C170613-3	MFTWM1AF	9MFTWM10	1077129
		J1FKL8	J1C170613-3	MFTWM1AC	9MFTWM10	1077132
		J1FKL8	J1C170613-3	MFTWM1AK	9MFTWM10	1077135
		J1FKL8	J1C170613-3	MFTWM1AH	9MFTWM10	1077137
		J1FKL8	J1C170613-3	MFTWM1AE	9MFTWM10	1077140
		J1FKL8	J1C170613-3	MFTWM1AG	9MFTWM10	1077142
		J1FKL8	J1C170613-3	MFTWM1AD	9MFTWM10	1077144

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
JP0127	RC-107	J1FKL8	J1C170613-3	MFTWM1AA	9MFTWM10	1080215
		J1FKL9	J1C170613-4	MFTWQ1AJ	9MFTWQ10	1077127
		J1FKL9	J1C170613-4	MFTWQ1AF	9MFTWQ10	1077129
		J1FKL9	J1C170613-4	MFTWQ1AC	9MFTWQ10	1077132
		J1FKL9	J1C170613-4	MFTWQ1AK	9MFTWQ10	1077135
		J1FKL9	J1C170613-4	MFTWQ1AH	9MFTWQ10	1077137
		J1FKL9	J1C170613-4	MFTWQ1AE	9MFTWQ10	1077140
		J1FKL9	J1C170613-4	MFTWQ1AG	9MFTWQ10	1077142
		J1FKL9	J1C170613-4	MFTWQ1AD	9MFTWQ10	1077144
		J1FKL9	J1C170613-4	MFTWQ1AA	9MFTWQ10	1080215
		J1FKM0	J1C170613-5	MFTWX1AJ	9MFTWX10	1077127
		J1FKM0	J1C170613-5	MFTWX1AF	9MFTWX10	1077129
		J1FKM0	J1C170613-5	MFTWX1AC	9MFTWX10	1077132
		J1FKM0	J1C170613-5	MFTWX1AK	9MFTWX10	1077135
		J1FKM0	J1C170613-5	MFTWX1AH	9MFTWX10	1077137
		J1FKM0	J1C170613-5	MFTWX1AE	9MFTWX10	1077140
		J1FKM0	J1C170613-5	MFTWX1AG	9MFTWX10	1077142
		J1FKM0	J1C170613-5	MFTWX1AD	9MFTWX10	1077144
		J1FKM0	J1C170613-5	MFTWX1AA	9MFTWX10	1080215
		J1FKM1	J1C170613-6	MFTW01AJ	9MFTW010	1077127
		J1FKM1	J1C170613-6	MFTW01AF	9MFTW010	1077129
		J1FKM1	J1C170613-6	MFTW01AC	9MFTW010	1077132
		J1FKM1	J1C170613-6	MFTW01AK	9MFTW010	1077135
		J1FKM1	J1C170613-6	MFTW01AH	9MFTW010	1077137
		J1FKM1	J1C170613-6	MFTW01AE	9MFTW010	1077140
		J1FKM1	J1C170613-6	MFTW01AG	9MFTW010	1077142
		J1FKM1	J1C170613-6	MFTW01AD	9MFTW010	1077144
		J1FKM1	J1C170613-6	MFTW01AA	9MFTW010	1080215
		J1FKM2	J1C170613-7	MFTW11AJ	9MFTW110	1077127
		J1FKM2	J1C170613-7	MFTW11AF	9MFTW110	1077129
		J1FKM2	J1C170613-7	MFTW11AC	9MFTW110	1077132
		J1FKM2	J1C170613-7	MFTW11AK	9MFTW110	1077135
		J1FKM2	J1C170613-7	MFTW11AH	9MFTW110	1077137
		J1FKM2	J1C170613-7	MFTW11AE	9MFTW110	1077140
		J1FKM2	J1C170613-7	MFTW11AG	9MFTW110	1077142
		J1FKM2	J1C170613-7	MFTW11AD	9MFTW110	1077144
		J1FKM2	J1C170613-7	MFTW11AA	9MFTW110	1080215
		J1FKM3	J1C170613-8	MFTW21AJ	9MFTW210	1077127

Report No.: 46064

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
JP0127	RC-107	J1FKM3	J1C170613-8	MFTW21AF	9MFTW210	1077129
		J1FKM3	J1C170613-8	MFTW21AC	9MFTW210	1077132
		J1FKM3	J1C170613-8	MFTW21AK	9MFTW210	1077135
		J1FKM3	J1C170613-8	MFTW21AH	9MFTW210	1077137
		J1FKM3	J1C170613-8	MFTW21AE	9MFTW210	1077140
		J1FKM3	J1C170613-8	MFTW21AG	9MFTW210	1077142
		J1FKM3	J1C170613-8	MFTW21AD	9MFTW210	1077144
		J1FKM3	J1C170613-8	MFTW21AA	9MFTW210	1080215
		J1FKM4	J1C170613-9	MFTW31AJ	9MFTW310	1077127
		J1FKM4	J1C170613-9	MFTW31AF	9MFTW310	1077129
		J1FKM4	J1C170613-9	MFTW31AC	9MFTW310	1077132
		J1FKM4	J1C170613-9	MFTW31AK	9MFTW310	1077135
		J1FKM4	J1C170613-9	MFTW31AH	9MFTW310	1077137
		J1FKM4	J1C170613-9	MFTW31AE	9MFTW310	1077140
		J1FKM4	J1C170613-9	MFTW31AG	9MFTW310	1077142
		J1FKM4	J1C170613-9	MFTW31AD	9MFTW310	1077144
		J1FKM4	J1C170613-9	MFTW31AA	9MFTW310	1080215
		J1FKM5	J1C170613-10	MFTW41AJ	9MFTW410	1077127
		J1FKM5	J1C170613-10	MFTW41AF	9MFTW410	1077129
		J1FKM5	J1C170613-10	MFTW41AC	9MFTW410	1077132
		J1FKM5	J1C170613-10	MFTW41AK	9MFTW410	1077135
		J1FKM5	J1C170613-10	MFTW41AH	9MFTW410	1077137
		J1FKM5	J1C170613-10	MFTW41AE	9MFTW410	1077140
		J1FKM5	J1C170613-10	MFTW41AG	9MFTW410	1077142
		J1FKM5	J1C170613-10	MFTW41AD	9MFTW410	1077144
		J1FKM5	J1C170613-10	MFTW41AA	9MFTW410	1080215
	RC-107	J1FKM6	J1C170613-11	MFTW51AJ	9MFTW510	1077127
		J1FKM6	J1C170613-11	MFTW51AF	9MFTW510	1077129
		J1FKM6	J1C170613-11	MFTW51AC	9MFTW510	1077132
		J1FKM6	J1C170613-11	MFTW51AK	9MFTW510	1077135
		J1FKM6	J1C170613-11	MFTW51AH	9MFTW510	1077137
		J1FKM6	J1C170613-11	MFTW51AE	9MFTW510	1077140
		J1FKM6	J1C170613-11	MFTW51AG	9MFTW510	1077142
		J1FKM6	J1C170613-11	MFTW51AD	9MFTW510	1077144
		J1FKM6	J1C170613-11	MFTW51AA	9MFTW510	1080215
		J1FKM7	J1C170613-12	MFTW61AJ	9MFTW610	1077127
		J1FKM7	J1C170613-12	MFTW61AF	9MFTW610	1077129
		J1FKM7	J1C170613-12	MFTW61AC	9MFTW610	1077132

Report No.: 46064

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SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
JP0127	RC-107	J1FKM7	J1C170613-12	MFTW61AK	9MFTW610	1077135
		J1FKM7	J1C170613-12	MFTW61AH	9MFTW610	1077137
		J1FKM7	J1C170613-12	MFTW61AE	9MFTW610	1077140
		J1FKM7	J1C170613-12	MFTW61AG	9MFTW610	1077142
		J1FKM7	J1C170613-12	MFTW61AD	9MFTW610	1077144
		J1FKM7	J1C170613-12	MFTW61AA	9MFTW610	1080215
		J1FKM8	J1C170613-13	MFTW71AJ	9MFTW710	1077127
		J1FKM8	J1C170613-13	MFTW71AF	9MFTW710	1077129
		J1FKM8	J1C170613-13	MFTW71AC	9MFTW710	1077132
		J1FKM8	J1C170613-13	MFTW71AK	9MFTW710	1077135
		J1FKM8	J1C170613-13	MFTW71AH	9MFTW710	1077137
		J1FKM8	J1C170613-13	MFTW71AE	9MFTW710	1077140
		J1FKM8	J1C170613-13	MFTW71AG	9MFTW710	1077142
		J1FKM8	J1C170613-13	MFTW71AD	9MFTW710	1077144
		J1FKM8	J1C170613-13	MFTW71AA	9MFTW710	1080215
		J1FKM9	J1C170613-14	MFTW81AJ	9MFTW810	1077127
		J1FKM9	J1C170613-14	MFTW81AF	9MFTW810	1077129
		J1FKM9	J1C170613-14	MFTW81AC	9MFTW810	1077132
		J1FKM9	J1C170613-14	MFTW81AK	9MFTW810	1077135
		J1FKM9	J1C170613-14	MFTW81AH	9MFTW810	1077137
		J1FKM9	J1C170613-14	MFTW81AE	9MFTW810	1077140
		J1FKM9	J1C170613-14	MFTW81AG	9MFTW810	1077142
		J1FKM9	J1C170613-14	MFTW81AD	9MFTW810	1077144
		J1FKM9	J1C170613-14	MFTW81AA	9MFTW810	1080215

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

March 28, 2011

Attention: Joan Kessner

SAF Number	:	RC-107
Date SDG Closed	:	March 17, 2011
Number of Samples	:	Fourteen (14)
Sample Type	:	Soil
SDG Number	:	JP0127
Data Deliverable	:	7– Day / Summary

CASE NARRATIVE

I. Introduction

On March 17, 2011 fourteen 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
J1FKL6	MFTWD	SOIL	3/17/11
J1FKL7	MFTWL	SOIL	3/17/11
J1FKL8	MFTWM	SOIL	3/17/11
J1FKL9	MFTWQ	SOIL	3/17/11
J1FKM0	MFTWX	SOIL	3/17/11
J1FKM1	MFTW0	SOIL	3/17/11
J1FKM2	MFTW1	SOIL	3/17/11
J1FKM3	MFTW2	SOIL	3/17/11
J1FKM4	MFTW3	SOIL	3/17/11
J1FKM5	MFTW4	SOIL	3/17/11
J1FKM6	MFTW5	SOIL	3/17/11
J1FKM7	MFTW6	SOIL	3/17/11
J1FKM8	MFTW7	SOIL	3/17/11
J1FKM9	MFTW8	SOIL	3/17/11

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002
Uranium 234, 235 and 238 by method RL-ALP-015
Gas Proportional Counting
Strontium-90 by method RL-GPC-003
Gamma Spectroscopy
Gamma Spec by method RL-GAM-001
Liquid Scintillation Counting
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

Alpha Spectroscopy

Plutonium-238, -239/240 by method RL-ALP-002 :

A heavy white film was noted in the samples after separations; the samples were coprecipitated instead of electrodeposited. Except as noted; he LCS, batch blank, samples and sample duplicate (J1FKL7) results are within contractual requirements.

Uranium 234, 235 and 238 by method RL-ALP-015:

The LCS, batch blank, samples and sample duplicate (J1FKL8) results are within contractual requirements.

Gas Proportional Counting

Strontium-90 by method RL-GPC-003 :

The LCS, batch blank, samples and sample duplicate (J1FKM1) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RL-GAM-001 :

There was insufficient volume for a duplicate. Sample J1FKL6 was recounted on a different detector for the duplicate (J1FKL6 DUP). The CRDL was not met on some analytes due to reduced count time. The count time was reduced to meet the priority turn around time. Except as noted, the LCS, batch blank, samples and sample duplicate (J1FKL6) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RL-LSC-013 :

The LCS, batch blank, samples, sample duplicate (J1FKM0) and sample matrix spike (J1FKM0) results are within contractual requirements.

Tritium by method RL-LSC-005 :

The LCS, batch blank, samples and sample duplicate (J1FKL6) results are within contractual requirements.

Carbon-14 by method RL-LSC-008 :

The LCS, batch blank, samples and sample duplicate (J1FKL6) results are within contractual requirements.

Nickel-63 by method RL-LCS-017 :

The LCS, batch blank, samples and sample duplicate (J1FKL9) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The sample and sample duplicate (J1FKL6) agreement is outside the acceptance limit. This may be attributed to the inhomogeniety of the matrix. Except as noted the LCS, batch blank, samples, sample duplicate (J1FKL6) and sample matrix spike (J1FKL6) 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: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077129 PUISO_PLATE_AEA									
	J1FKL6								
	MFTWD1AF	PU-238	3.95E-02 +- 8.0E-02	U	pCi/g	87%	1.48E-01	1.00E+00	
		PU239/40	-3.97E-03 +- 7.9E-02	U	pCi/g	87%	1.65E-01	1.00E+00	
	J1FKL7								
	MFTWL1AF	PU-238	0.00E+00 +- 7.0E-02	U	pCi/g	94%	1.31E-01	1.00E+00	
		PU239/40	-1.76E-03 +- 7.0E-02	U	pCi/g	94%	1.31E-01	1.00E+00	
	J1FKL7 DUP								
	MFTWL1AL	PU-238	3.29E-02 +- 7.0E-02	U	pCi/g	84%	1.30E-01	1.00E+00	200.0
		PU239/40	-1.73E-03 +- 6.9E-02	U	pCi/g	84%	1.30E-01	1.00E+00	-1.4
	J1FKL8								
	MFTWM1AF	PU-238	5.23E-02 +- 1.1E-01	U	pCi/g	71%	1.96E-01	1.00E+00	
		PU239/40	0.00E+00 +- 1.0E-01	U	pCi/g	71%	1.96E-01	1.00E+00	
	J1FKL9								
	MFTWQ1AF	PU-238	0.00E+00 +- 9.1E-02	U	pCi/g	81%	1.71E-01	1.00E+00	
		PU239/40	0.00E+00 +- 9.1E-02	U	pCi/g	81%	1.71E-01	1.00E+00	
	J1FKM0								
	MFTWX1AF	PU-238	-6.01E-03 +- 6.0E-02	U	pCi/g	95%	1.44E-01	1.00E+00	
		PU239/40	-3.00E-03 +- 6.0E-02	U	pCi/g	95%	1.25E-01	1.00E+00	
	J1FKM1								
	MFTW01AF	PU-238	-1.96E-03 +- 7.8E-02	U	pCi/g	79%	1.47E-01	1.00E+00	
		PU239/40	-1.96E-03 +- 7.8E-02	U	pCi/g	79%	1.47E-01	1.00E+00	
	J1FKM2								
	MFTW11AF	PU-238	-1.55E-03 +- 6.2E-02	U	pCi/g	93%	1.16E-01	1.00E+00	
		PU239/40	-1.55E-03 +- 6.2E-02	U	pCi/g	93%	1.16E-01	1.00E+00	
	J1FKM3								
	MFTW21AF	PU-238	3.24E-02 +- 6.9E-02	U	pCi/g	92%	1.28E-01	1.00E+00	
		PU239/40	6.66E-02 +- 9.8E-02	U	pCi/g	92%	1.28E-01	1.00E+00	
	J1FKM4								
	MFTW31AF	PU-238	-4.71E-03 +- 6.3E-02	U	pCi/g	87%	1.41E-01	1.00E+00	
		PU239/40	2.82E-02 +- 6.3E-02	U	pCi/g	87%	1.31E-01	1.00E+00	
	J1FKM5								
	MFTW41AF	PU-238	-1.79E-03 +- 7.1E-02	U	pCi/g	90%	1.33E-01	1.00E+00	
		PU239/40	0.00E+00 +- 7.1E-02	U	pCi/g	90%	1.33E-01	1.00E+00	
	J1FKM6								
	MFTW51AF	PU-238	0.00E+00 +- 7.7E-02	U	pCi/g	71%	1.44E-01	1.00E+00	
		PU239/40	-3.84E-03 +- 7.7E-02	U	pCi/g	71%	1.60E-01	1.00E+00	
	J1FKM7								
	MFTW61AF	PU-238	0.00E+00 +- 7.5E-02	U	pCi/g	83%	1.40E-01	1.00E+00	

TestAmerica

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Sample Results Summary

Date: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077129 PUISO_PLATE_AEA									
	J1FKM7								
	MFTW61AF	PU239/40	0.00E+00 +- 7.5E-02	U	pCi/g	83%	1.40E-01	1.00E+00	
	J1FKM8								
	MFTW71AF	PU-238	-1.70E-03 +- 6.8E-02	U	pCi/g	100%	1.27E-01	1.00E+00	
		PU239/40	-3.40E-03 +- 6.8E-02	U	pCi/g	100%	1.42E-01	1.00E+00	
	J1FKM9								
	MFTW81AF	PU-238	2.84E-02 +- 5.7E-02	U	pCi/g	96%	1.07E-01	1.00E+00	
		PU239/40	0.00E+00 +- 5.7E-02	U	pCi/g	96%	1.07E-01	1.00E+00	
1077132 UISO_IE_PLATE_AEA									
	J1FKL6								
	MFTWD1AC	U-234	1.38E-01 +- 1.3E-01	U	pCi/g	90%	1.77E-01	1.00E+00	
		U-235	-1.19E-02 +- 5.3E-02	U	pCi/g	90%	1.54E-01	1.00E+00	
		U-238	1.86E-01 +- 1.5E-01	U	pCi/g	90%	1.91E-01	1.00E+00	
	J1FKL7								
	MFTWL1AC	U-234	2.18E-01 +- 1.5E-01		pCi/g	107%	1.42E-01	1.00E+00	
		U-235	-4.64E-03 +- 4.6E-02	U	pCi/g	107%	1.11E-01	1.00E+00	
		U-238	1.74E-01 +- 1.4E-01		pCi/g	107%	1.35E-01	1.00E+00	
	J1FKL8								
	MFTWM1AC	U-234	4.30E-02 +- 6.6E-02	U	pCi/g	100%	1.05E-01	1.00E+00	
		U-235	0.00E+00 +- 4.7E-02	U	pCi/g	100%	8.73E-02	1.00E+00	
		U-238	1.15E-01 +- 1.1E-01		pCi/g	100%	8.73E-02	1.00E+00	
	J1FKL8 DUP								
	MFTWM1AL	U-234	1.09E-01 +- 1.0E-01		pCi/g	102%	9.32E-02	1.00E+00	87.0
		U-235	-1.12E-03 +- 4.5E-02	U	pCi/g	102%	8.36E-02	1.00E+00	-200.0
		U-238	1.08E-01 +- 1.0E-01		pCi/g	102%	1.01E-01	1.00E+00	6.3
	J1FKL9								
	MFTWQ1AC	U-234	1.62E-01 +- 1.3E-01		pCi/g	100%	8.70E-02	1.00E+00	
		U-235	-1.16E-03 +- 4.6E-02	U	pCi/g	100%	8.70E-02	1.00E+00	
		U-238	1.60E-01 +- 1.3E-01		pCi/g	100%	9.70E-02	1.00E+00	
	J1FKM0								
	MFTWX1AC	U-234	1.27E-01 +- 1.2E-01		pCi/g	87%	1.20E-01	1.00E+00	
		U-235	-1.58E-03 +- 5.3E-02	U	pCi/g	87%	1.01E-01	1.00E+00	
		U-238	7.72E-02 +- 9.2E-02	U	pCi/g	87%	1.01E-01	1.00E+00	
	J1FKM1								
	MFTW01AC	U-234	1.38E-01 +- 1.3E-01		pCi/g	99%	1.30E-01	1.00E+00	
		U-235	5.51E-02 +- 8.1E-02	U	pCi/g	99%	1.09E-01	1.00E+00	
		U-238	2.44E-02 +- 5.7E-02	U	pCi/g	99%	1.26E-01	1.00E+00	
	J1FKM2								

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Sample Results Summary

Date: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064 **SDG No:** JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077132 UISO_IE_PLATE_AEA									
J1FKM2									
	MFTW11AC	U-234	1.41E-01 +- 1.3E-01	U	pCi/g	94%	1.54E-01	1.00E+00	
		U-235	-7.73E-03 +- 5.2E-02	U	pCi/g	94%	1.35E-01	1.00E+00	
		U-238	1.32E-01 +- 1.3E-01	U	pCi/g	94%	1.80E-01	1.00E+00	
J1FKM3									
	MFTW21AC	U-234	7.57E-02 +- 9.9E-02	U	pCi/g	83%	1.47E-01	1.00E+00	
		U-235	-5.60E-03 +- 5.6E-02	U	pCi/g	83%	1.34E-01	1.00E+00	
		U-238	1.30E-01 +- 1.3E-01	U	pCi/g	83%	1.53E-01	1.00E+00	
J1FKM4									
	MFTW31AC	U-234	2.07E-01 +- 1.6E-01		pCi/g	80%	1.19E-01	1.00E+00	
		U-235	0.00E+00 +- 5.3E-02	U	pCi/g	80%	9.88E-02	1.00E+00	
		U-238	1.83E-01 +- 1.4E-01		pCi/g	80%	9.88E-02	1.00E+00	
J1FKM5									
	MFTW41AC	U-234	4.53E-01 +- 2.3E-01		pCi/g	84%	1.06E-01	1.00E+00	
		U-235	4.94E-02 +- 7.2E-02	U	pCi/g	84%	9.50E-02	1.00E+00	
		U-238	2.24E-01 +- 1.6E-01		pCi/g	84%	1.14E-01	1.00E+00	
J1FKM6									
	MFTW51AC	U-234	1.87E-01 +- 1.5E-01		pCi/g	87%	1.00E-01	1.00E+00	
		U-235	-1.33E-03 +- 5.4E-02	U	pCi/g	87%	1.00E-01	1.00E+00	
		U-238	2.11E-01 +- 1.6E-01		pCi/g	87%	1.12E-01	1.00E+00	
J1FKM7									
	MFTW61AC	U-234	1.41E-01 +- 1.2E-01		pCi/g	92%	1.11E-01	1.00E+00	
		U-235	-1.45E-03 +- 4.8E-02	U	pCi/g	92%	9.31E-02	1.00E+00	
		U-238	7.11E-02 +- 8.5E-02	U	pCi/g	92%	9.31E-02	1.00E+00	
J1FKM8									
	MFTW71AC	U-234	7.17E-02 +- 1.1E-01	U	pCi/g	67%	1.78E-01	1.00E+00	
		U-235	7.56E-02 +- 1.1E-01	U	pCi/g	67%	1.50E-01	1.00E+00	
		U-238	1.89E-01 +- 1.8E-01		pCi/g	67%	1.73E-01	1.00E+00	
J1FKM9									
	MFTW81AC	U-234	5.80E-02 +- 8.2E-02	U	pCi/g	114%	1.39E-01	1.00E+00	
		U-235	1.62E-02 +- 4.7E-02	U	pCi/g	114%	1.22E-01	1.00E+00	
		U-238	2.36E-01 +- 1.6E-01		pCi/g	114%	1.63E-01	1.00E+00	
1077127 GAMMA_GS									
J1FKL6									
	MFTWD1AJ	AG-108M	-4.34E-03 +- 1.4E-02	U	pCi/g		2.30E-02		
		AMERICIUM 241	9.32E-03 +- 3.1E-02	U	pCi/g		5.35E-02		
		BA-133	1.44E-02 +- 2.2E-02	U	pCi/g		3.45E-02		
		CO-60	1.83E-02 +- 1.8E-02	U	pCi/g		3.46E-02	5.00E-02	

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Sample Results Summary

Date: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064 **SDG No:** JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077127 GAMMA_GS									
J1FKL6									
	MFTWD1AJ	CS-137	-4.78E-03 +- 1.7E-02	U	pCi/g		2.98E-02	1.00E-01	
		EU-152	4.32E-02 +- 4.2E-02	U	pCi/g		7.74E-02	1.00E-01	
		EU-154	-3.53E-02 +- 6.0E-02	U	pCi/g		9.92E-02	1.00E-01	
		EU-155	8.20E-02 +- 4.4E-02	U	pCi/g		7.73E-02	1.00E-01	
J1FKL6 DUP									
	MFTWD1AL	AG-108M	-1.11E-02 +- 1.7E-02	U	pCi/g		2.81E-02		-87.4
		AMERICIUM 241	-4.23E-02 +- 3.9E-02	U	pCi/g		6.21E-02		-313.1
		BA-133	-4.73E-03 +- 2.8E-02	U	pCi/g		3.95E-02		395.1
		CO-60	5.99E-03 +- 2.2E-02	U	pCi/g		3.93E-02	5.00E-02	101.2
		CS-137	5.09E-03 +- 2.0E-02	U	pCi/g		3.44E-02	1.00E-01	6377.8
		EU-152	-1.24E-02 +- 6.5E-02	U	pCi/g		9.72E-02	1.00E-01	361.4
		EU-154	-3.98E-02 +- 6.9E-02	U	pCi/g		1.15E-01	1.00E-01	-11.8
		EU-155	4.02E-02 +- 5.4E-02	U	pCi/g		9.41E-02	1.00E-01	68.5
J1FKL7									
	MFTWL1AJ	AG-108M	2.63E-03 +- 9.9E-03	U	pCi/g		1.75E-02		
		AMERICIUM 241	-5.70E-02 +- 9.1E-02	U	pCi/g		1.47E-01		
		BA-133	4.85E-04 +- 1.5E-02	U	pCi/g		2.37E-02		
		CO-60	2.60E-03 +- 1.5E-02	U	pCi/g		2.77E-02	5.00E-02	
		CS-137	1.80E-02 +- 1.4E-02	U	pCi/g		2.58E-02	1.00E-01	
		EU-152	-7.82E-03 +- 3.4E-02	U	pCi/g		5.70E-02	1.00E-01	
		EU-154	8.21E-03 +- 4.7E-02	U	pCi/g		8.41E-02	1.00E-01	
		EU-155	5.74E-02 +- 3.8E-02	U	pCi/g		6.74E-02	1.00E-01	
J1FKL8									
	MFTWM1AJ	AG-108M	4.55E-03 +- 1.4E-02	U	pCi/g		2.49E-02		
		AMERICIUM 241	-5.72E-02 +- 6.3E-02	U	pCi/g		1.02E-01		
		BA-133	-1.27E-03 +- 2.5E-02	U	pCi/g		3.58E-02		
		CO-60	6.47E-03 +- 2.0E-02	U	pCi/g		3.66E-02	5.00E-02	
		CS-137	-7.60E-03 +- 2.0E-02	U	pCi/g		3.41E-02	1.00E-01	
		EU-152	-1.64E-02 +- 4.8E-02	U	pCi/g		7.98E-02	1.00E-01	
		EU-154	-1.37E-02 +- 6.5E-02	U	pCi/g		1.13E-01	1.00E-01	
		EU-155	7.27E-02 +- 4.8E-02	U	pCi/g		8.55E-02	1.00E-01	
J1FKL9									
	MFTWQ1AJ	AG-108M	-1.80E-03 +- 1.3E-02	U	pCi/g		2.26E-02		
		AMERICIUM 241	3.08E-02 +- 7.0E-02	U	pCi/g		1.19E-01		
		BA-133	2.76E-02 +- 2.2E-02	U	pCi/g		3.39E-02		
		CO-60	-6.87E-04 +- 1.4E-02	U	pCi/g		2.46E-02	5.00E-02	
		CS-137	-4.82E-03 +- 1.5E-02	U	pCi/g		2.62E-02	1.00E-01	

TestAmerica

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Sample Results Summary

Date: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064 **SDG No:** JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077127	GAMMA_GS								
	J1FKL9								
	MFTWQ1AJ	EU-152	1.55E-02 +- 7.1E-02	U	pCi/g		7.45E-02	1.00E-01	
		EU-154	-5.15E-02 +- 5.4E-02	U	pCi/g		8.64E-02	1.00E-01	
		EU-155	-4.94E-03 +- 5.3E-02	U	pCi/g		8.83E-02	1.00E-01	
	J1FKM0								
	MFTWX1AJ	AG-108M	1.43E-02 +- 3.6E-02	U	pCi/g		6.50E-02		
		AMERICIUM 241	-3.90E-02 +- 5.2E-02	U	pCi/g		8.41E-02		
		BA-133	-8.73E-03 +- 6.0E-02	U	pCi/g		8.54E-02		
		CO-60	1.79E-02 +- 4.9E-02	U	pCi/g		9.26E-02	5.00E-02	
		CS-137	-3.28E-02 +- 4.9E-02	U	pCi/g		8.04E-02	1.00E-01	
		EU-152	1.33E-02 +- 1.2E-01	U	pCi/g		1.90E-01	1.00E-01	
		EU-154	1.74E-02 +- 1.5E-01	U	pCi/g		2.79E-01	1.00E-01	
		EU-155	6.50E-03 +- 8.1E-02	U	pCi/g		1.39E-01	1.00E-01	
	J1FKM1								
	MFTW01AJ	AG-108M	-6.01E-03 +- 3.7E-02	U	pCi/g		6.37E-02		
		AMERICIUM 241	-2.44E-02 +- 1.1E-01	U	pCi/g		1.83E-01		
		BA-133	-3.60E-03 +- 5.8E-02	U	pCi/g		8.41E-02		
		CO-60	-1.59E-02 +- 4.5E-02	U	pCi/g		7.89E-02	5.00E-02	
		CS-137	5.28E-02 +- 5.1E-02	U	pCi/g		9.69E-02	1.00E-01	
		EU-152	3.84E-03 +- 1.1E-01	U	pCi/g		1.98E-01	1.00E-01	
		EU-154	4.77E-02 +- 1.5E-01	U	pCi/g		2.74E-01	1.00E-01	
		EU-155	9.90E-02 +- 9.0E-02	U	pCi/g		1.63E-01	1.00E-01	
	J1FKM2								
	MFTW11AJ	AG-108M	2.46E-03 +- 1.6E-02	U	pCi/g		2.94E-02		
		AMERICIUM 241	-9.74E-02 +- 1.4E-01	U	pCi/g		2.21E-01		
		BA-133	1.44E-02 +- 2.6E-02	U	pCi/g		4.20E-02		
		CO-60	4.91E-03 +- 2.5E-02	U	pCi/g		4.75E-02	5.00E-02	
		CS-137	5.15E-02 +- 3.0E-02	U	pCi/g		5.71E-02	1.00E-01	
		EU-152	2.58E-02 +- 5.5E-02	U	pCi/g		9.74E-02	1.00E-01	
		EU-154	2.54E-03 +- 9.3E-02	U	pCi/g		1.69E-01	1.00E-01	
		EU-155	2.55E-02 +- 5.2E-02	U	pCi/g		9.21E-02	1.00E-01	
	J1FKM3								
	MFTW21AJ	AG-108M	-4.35E-03 +- 1.4E-02	U	pCi/g		2.28E-02		
		AMERICIUM 241	3.23E-03 +- 7.5E-02	U	pCi/g		1.26E-01		
		BA-133	2.53E-02 +- 2.4E-02	U	pCi/g		3.56E-02		
		CO-60	-1.56E-04 +- 1.5E-02	U	pCi/g		2.69E-02	5.00E-02	
		CS-137	6.79E-02 +- 2.7E-02		pCi/g		2.85E-02	1.00E-01	
		EU-152	-7.60E-03 +- 6.1E-02	U	pCi/g		7.43E-02	1.00E-01	

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Date: 28-Mar-11

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

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077127	GAMMA_GS								
J1FKM3									
	MFTW21AJ	EU-154	-1.87E-03 +- 5.0E-02	U	pCi/g		8.70E-02	1.00E-01	
		EU-155	3.87E-02 +- 5.7E-02	U	pCi/g		9.64E-02	1.00E-01	
J1FKM4									
	MFTW31AJ	AG-108M	-8.39E-03 +- 1.4E-02	U	pCi/g		2.28E-02		
		AMERICIUM 241	-6.84E-04 +- 3.1E-02	U	pCi/g		5.31E-02		
		BA-133	-3.88E-03 +- 2.4E-02	U	pCi/g		3.45E-02		
		CO-60	-3.86E-03 +- 1.7E-02	U	pCi/g		3.01E-02	5.00E-02	
		CS-137	-5.11E-03 +- 1.6E-02	U	pCi/g		2.79E-02	1.00E-01	
		EU-152	1.26E-02 +- 4.3E-02	U	pCi/g		7.69E-02	1.00E-01	
		EU-154	1.08E-02 +- 5.5E-02	U	pCi/g		9.90E-02	1.00E-01	
		EU-155	3.32E-02 +- 4.4E-02	U	pCi/g		7.51E-02	1.00E-01	
J1FKM5									
	MFTW41AJ	AG-108M	-7.74E-04 +- 1.7E-02	U	pCi/g		2.80E-02		
		AMERICIUM 241	-1.78E-02 +- 9.0E-02	U	pCi/g		1.52E-01		
		BA-133	1.69E-03 +- 2.7E-02	U	pCi/g		3.88E-02		
		CO-60	-7.77E-03 +- 1.8E-02	U	pCi/g		3.09E-02	5.00E-02	
		CS-137	-1.67E-02 +- 2.0E-02	U	pCi/g		3.22E-02	1.00E-01	
		EU-152	-9.23E-02 +- 9.2E-02	U	pCi/g		8.31E-02	1.00E-01	
		EU-154	-7.61E-02 +- 6.0E-02	U	pCi/g		9.27E-02	1.00E-01	
		EU-155	7.94E-03 +- 6.6E-02	U	pCi/g		1.11E-01	1.00E-01	
J1FKM6									
	MFTW51AJ	AG-108M	9.51E-03 +- 1.5E-02	U	pCi/g		2.67E-02		
		AMERICIUM 241	-9.34E-03 +- 6.3E-02	U	pCi/g		1.06E-01		
		BA-133	-8.19E-03 +- 2.4E-02	U	pCi/g		3.42E-02		
		CO-60	-8.23E-03 +- 1.9E-02	U	pCi/g		3.23E-02	5.00E-02	
		CS-137	-7.22E-03 +- 1.8E-02	U	pCi/g		3.12E-02	1.00E-01	
		EU-152	-1.22E-02 +- 4.8E-02	U	pCi/g		8.09E-02	1.00E-01	
		EU-154	4.10E-02 +- 5.8E-02	U	pCi/g		1.09E-01	1.00E-01	
		EU-155	-1.52E-03 +- 4.7E-02	U	pCi/g		8.07E-02	1.00E-01	
J1FKM7									
	MFTW61AJ	AG-108M	8.15E-03 +- 1.7E-02	U	pCi/g		3.06E-02		
		AMERICIUM 241	1.61E-02 +- 3.8E-02	U	pCi/g		6.33E-02		
		BA-133	-7.95E-03 +- 2.7E-02	U	pCi/g		3.77E-02		
		CO-60	3.16E-03 +- 1.9E-02	U	pCi/g		3.40E-02	5.00E-02	
		CS-137	-1.25E-02 +- 2.1E-02	U	pCi/g		3.43E-02	1.00E-01	
		EU-152	-1.24E-02 +- 6.4E-02	U	pCi/g		9.31E-02	1.00E-01	
		EU-154	2.92E-03 +- 6.3E-02	U	pCi/g		1.11E-01	1.00E-01	

TestAmerica

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Sample Results Summary

Date: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077127 GAMMA_GS									
J1FKM7									
	MFTW61AJ	EU-155	2.84E-02 +- 5.3E-02	U	pCi/g		9.15E-02	1.00E-01	
J1FKM8									
	MFTW71AJ	AG-108M	-1.41E-03 +- 9.8E-03	U	pCi/g		1.69E-02		
		AMERICIUM 241	-5.46E-02 +- 8.9E-02	U	pCi/g		1.43E-01		
		BA-133	1.04E-02 +- 1.6E-02	U	pCi/g		2.42E-02		
		CO-60	-1.23E-02 +- 1.4E-02	U	pCi/g		2.32E-02	5.00E-02	
		CS-137	1.67E-02 +- 1.3E-02	U	pCi/g		2.48E-02	1.00E-01	
		EU-152	-3.41E-02 +- 3.3E-02	U	pCi/g		5.32E-02	1.00E-01	
		EU-154	-5.77E-03 +- 4.5E-02	U	pCi/g		7.88E-02	1.00E-01	
		EU-155	4.95E-02 +- 3.8E-02	U	pCi/g		6.75E-02	1.00E-01	
J1FKM9									
	MFTW81AJ	AG-108M	1.14E-02 +- 2.5E-02	U	pCi/g		4.61E-02		
		AMERICIUM 241	-2.17E-02 +- 3.6E-02	U	pCi/g		6.00E-02		
		BA-133	7.58E-03 +- 3.9E-02	U	pCi/g		6.01E-02		
		CO-60	3.54E-03 +- 3.9E-02	U	pCi/g		7.33E-02	5.00E-02	
		CS-137	3.26E-02 +- 3.1E-02	U	pCi/g		6.08E-02	1.00E-01	
		EU-152	3.15E-02 +- 7.8E-02	U	pCi/g		1.42E-01	1.00E-01	
		EU-154	4.30E-02 +- 1.1E-01	U	pCi/g		2.16E-01	1.00E-01	
		EU-155	5.03E-02 +- 5.4E-02	U	pCi/g		9.70E-02	1.00E-01	
1077144 SRTOT_SEP_PRECIP_GPC									
J1FKL6									
	MFTWD1AD	STRONTIUM	5.60E-02 +- 8.6E-02	U	pCi/g	63%	1.86E-01		
J1FKL7									
	MFTWL1AD	STRONTIUM	8.50E-02 +- 8.4E-02	U	pCi/g	63%	1.71E-01		
J1FKL8									
	MFTWM1AD	STRONTIUM	1.01E-02 +- 7.1E-02	U	pCi/g	61%	1.67E-01		
J1FKL9									
	MFTWQ1AD	STRONTIUM	2.41E-02 +- 6.8E-02	U	pCi/g	64%	1.54E-01		
J1FKM0									
	MFTWX1AD	STRONTIUM	9.38E-02 +- 8.6E-02	U	pCi/g	60%	1.71E-01		
J1FKM1									
	MFTW01AD	STRONTIUM	8.56E-02 +- 8.7E-02	U	pCi/g	60%	1.78E-01		
J1FKM1 DUP									
	MFTW01AL	STRONTIUM	1.26E-01 +- 1.0E-01	U	pCi/g	55%	1.97E-01		38.0
J1FKM2									
	MFTW11AD	STRONTIUM	2.07E-02 +- 7.5E-02	U	pCi/g	62%	1.73E-01		
J1FKM3									

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Sample Results Summary

TestAmerica TARL

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

Date: 28-Mar-11

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077144 SRTOT_SEP_PRECIP_GPC									
J1FKM3									
	MFTW21AD	STRONTIUM	3.45E-02 +- 7.6E-02	U	pCi/g	63%	1.70E-01		
J1FKM4									
	MFTW31AD	STRONTIUM	3.96E-02 +- 7.8E-02	U	pCi/g	64%	1.73E-01		
J1FKM5									
	MFTW41AD	STRONTIUM	5.31E-02 +- 8.0E-02	U	pCi/g	61%	1.73E-01		
J1FKM6									
	MFTW51AD	STRONTIUM	3.81E-02 +- 7.5E-02	U	pCi/g	60%	1.66E-01		
J1FKM7									
	MFTW61AD	STRONTIUM	1.10E-01 +- 8.7E-02	U	pCi/g	62%	1.67E-01		
J1FKM8									
	MFTW71AD	STRONTIUM	8.84E-02 +- 8.5E-02	U	pCi/g	61%	1.72E-01		
J1FKM9									
	MFTW81AD	STRONTIUM	2.51E-02 +- 7.5E-02	U	pCi/g	63%	1.70E-01		
1077135 C14_CHEM_LSC									
J1FKL6									
	MFTWD1AK	C-14	-4.86E-02 +- 2.0E-01	U	pCi/g	100%	4.51E-01	5.00E+01	
J1FKL6 DUP									
	MFTWD1AM	C-14	6.36E-01 +- 2.4E-01		pCi/g	100%	4.49E-01	5.00E+01	233.1
J1FKL7									
	MFTWL1AK	C-14	-1.47E-01 +- 1.9E-01	U	pCi/g	100%	4.50E-01	5.00E+01	
J1FKL8									
	MFTWM1AK	C-14	3.45E-02 +- 2.0E-01	U	pCi/g	100%	4.50E-01	5.00E+01	
J1FKL9									
	MFTWQ1AK	C-14	3.99E-02 +- 2.0E-01	U	pCi/g	100%	4.50E-01	5.00E+01	
J1FKM0									
	MFTWX1AK	C-14	-1.11E-01 +- 1.9E-01	U	pCi/g	100%	4.51E-01	5.00E+01	
J1FKM1									
	MFTW01AK	C-14	-2.25E-02 +- 2.0E-01	U	pCi/g	100%	4.48E-01	5.00E+01	
J1FKM2									
	MFTW11AK	C-14	1.36E-02 +- 2.0E-01	U	pCi/g	100%	4.50E-01	5.00E+01	
J1FKM3									
	MFTW21AK	C-14	2.98E-01 +- 2.2E-01	U	pCi/g	100%	4.50E-01	5.00E+01	
J1FKM4									
	MFTW31AK	C-14	2.47E-01 +- 2.1E-01	U	pCi/g	100%	4.49E-01	5.00E+01	
J1FKM5									
	MFTW41AK	C-14	1.30E-02 +- 2.0E-01	U	pCi/g	100%	4.51E-01	5.00E+01	
J1FKM6									
	MFTW51AK	C-14	7.93E-02 +- 2.0E-01	U	pCi/g	100%	4.51E-01	5.00E+01	

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Sample Results Summary

Date: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077135 C14_CHEM_LSC									
	J1FKM7								
	MFTW61AK	C-14	2.41E-02 +- 2.0E-01	U	pCi/g	100%	4.50E-01	5.00E+01	
	J1FKM8								
	MFTW71AK	C-14	8.21E-02 +- 2.1E-01	U	pCi/g	100%	4.52E-01	5.00E+01	
	J1FKM9								
	MFTW81AK	C-14	1.01E-01 +- 2.1E-01	U	pCi/g	100%	4.49E-01	5.00E+01	
1077137 906.0_H3_LSC									
	J1FKL6								
	MFTWD1AH	H-3	1.88E-03 +- 1.2E-02	U	pCi/g	100%	2.64E-02	4.00E+02	
	J1FKL6 DUP								
	MFTWD1AN	H-3	1.23E-02 +- 1.1E-02	U	pCi/g	100%	2.46E-02	4.00E+02	147.0
	J1FKL7								
	MFTWL1AH	H-3	7.42E-04 +- 7.4E-03	U	pCi/g	100%	1.66E-02	4.00E+02	
	J1FKL8								
	MFTWM1AH	H-3	6.38E-03 +- 7.2E-03	U	pCi/g	100%	1.56E-02	4.00E+02	
	J1FKL9								
	MFTWQ1AH	H-3	3.75E-03 +- 7.0E-03	U	pCi/g	100%	1.53E-02	4.00E+02	
	J1FKM0								
	MFTWX1AH	H-3	2.50E-03 +- 7.5E-03	U	pCi/g	100%	1.66E-02	4.00E+02	
	J1FKM1								
	MFTW01AH	H-3	2.66E-03 +- 1.0E-02	U	pCi/g	100%	2.48E-02	4.00E+02	
	J1FKM2								
	MFTW11AH	H-3	1.13E-02 +- 1.3E-02	U	pCi/g	100%	2.78E-02	4.00E+02	
	J1FKM3								
	MFTW21AH	H-3	1.67E-02 +- 1.1E-02	U	pCi/g	100%	2.37E-02	4.00E+02	
	J1FKM4								
	MFTW31AH	H-3	3.00E-03 +- 1.1E-02	U	pCi/g	100%	2.41E-02	4.00E+02	
	J1FKM5								
	MFTW41AH	H-3	6.01E-03 +- 1.5E-02	U	pCi/g	100%	3.36E-02	4.00E+02	
	J1FKM6								
	MFTW51AH	H-3	5.56E-03 +- 6.4E-03	U	pCi/g	100%	1.40E-02	4.00E+02	
	J1FKM7								
	MFTW61AH	H-3	6.34E-03 +- 5.9E-03	U	pCi/g	100%	1.26E-02	4.00E+02	
	J1FKM8								
	MFTW71AH	H-3	6.31E-03 +- 9.5E-03	U	pCi/g	100%	2.06E-02	4.00E+02	
	J1FKM9								
	MFTW81AH	H-3	-2.06E-03 +- 7.0E-03	U	pCi/g	100%	1.61E-02	4.00E+02	
1077140 NI63_LSC									
	J1FKL6								

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A2002

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Sample Results Summary

Date: 28-Mar-11

TestAmerica TARL

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

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077140 NI63_LSC									
J1FKL6									
	MFTWD1AE	NI-63	3.64E-01 +- 6.3E+00	U	pCi/g	99%	1.35E+01	3.00E+01	
J1FKL7									
	MFTWL1AE	NI-63	1.47E+00 +- 6.1E+00	U	pCi/g	100%	1.28E+01	3.00E+01	
J1FKL8									
	MFTWM1AE	NI-63	3.23E+00 +- 6.0E+00	U	pCi/g	96%	1.23E+01	3.00E+01	
J1FKL9									
	MFTWQ1AE	NI-63	-3.18E-01 +- 5.7E+00	U	pCi/g	94%	1.22E+01	3.00E+01	
J1FKL9 DUP									
	MFTWQ1AL	NI-63	3.62E+00 +- 5.8E+00	U	pCi/g	96%	1.20E+01	3.00E+01	238.5
J1FKM0									
	MFTWX1AE	NI-63	2.88E+00 +- 6.6E+00	U	pCi/g	97%	1.37E+01	3.00E+01	
J1FKM1									
	MFTW01AE	NI-63	3.13E-01 +- 6.2E+00	U	pCi/g	100%	1.33E+01	3.00E+01	
J1FKM2									
	MFTW11AE	NI-63	-1.31E+00 +- 5.6E+00	U	pCi/g	100%	1.23E+01	3.00E+01	
J1FKM3									
	MFTW21AE	NI-63	-1.96E+00 +- 6.1E+00	U	pCi/g	99%	1.35E+01	3.00E+01	
J1FKM4									
	MFTW31AE	NI-63	3.29E-01 +- 6.6E+00	U	pCi/g	95%	1.40E+01	3.00E+01	
J1FKM5									
	MFTW41AE	NI-63	-2.08E+00 +- 5.4E+00	U	pCi/g	100%	1.19E+01	3.00E+01	
J1FKM6									
	MFTW51AE	NI-63	8.88E-01 +- 6.0E+00	U	pCi/g	97%	1.26E+01	3.00E+01	
J1FKM7									
	MFTW61AE	NI-63	1.96E+00 +- 6.1E+00	U	pCi/g	96%	1.28E+01	3.00E+01	
J1FKM8									
	MFTW71AE	NI-63	3.14E+00 +- 6.6E+00	U	pCi/g	93%	1.38E+01	3.00E+01	
J1FKM9									
	MFTW81AE	NI-63	1.71E+00 +- 6.4E+00	U	pCi/g	98%	1.36E+01	3.00E+01	
1077142 TC99_ETVDSK_LSC									
J1FKL6									
	MFTWD1AG	TC-99	-1.28E-02 +- 3.6E-01	U	pCi/g	100%	6.42E-01	1.50E+01	
J1FKL7									
	MFTWL1AG	TC-99	4.03E-01 +- 3.7E-01	U	pCi/g	100%	6.25E-01	1.50E+01	
J1FKL8									
	MFTWM1AG	TC-99	2.88E-01 +- 3.7E-01	U	pCi/g	100%	6.24E-01	1.50E+01	
J1FKL9									
	MFTWQ1AG	TC-99	5.20E-01 +- 3.8E-01	U	pCi/g	100%	6.17E-01	1.50E+01	

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Sample Results Summary

TestAmerica TARL

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

Date: 28-Mar-11

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1077142	**TC99_ETVDSK_LSC**								
	J1FKM0								
	MFTWX1AG	TC-99	1.65E-01 +- 3.5E-01	U	pCi/g	100%	6.07E-01	1.50E+01	
	J1FKM0 DUP								
	MFTWX1AM	TC-99	4.80E-01 +- 3.8E-01	U	pCi/g	100%	6.19E-01	1.50E+01	97.7
	J1FKM1								
	MFTW01AG	TC-99	3.97E-01 +- 3.8E-01	U	pCi/g	100%	6.21E-01	1.50E+01	
	J1FKM2								
	MFTW11AG	TC-99	2.56E-01 +- 3.6E-01	U	pCi/g	100%	6.18E-01	1.50E+01	
	J1FKM3								
	MFTW21AG	TC-99	4.39E-01 +- 3.9E-01	U	pCi/g	100%	6.50E-01	1.50E+01	
	J1FKM4								
	MFTW31AG	TC-99	4.85E-01 +- 3.8E-01	U	pCi/g	100%	6.15E-01	1.50E+01	
	J1FKM5								
	MFTW41AG	TC-99	2.37E-01 +- 3.8E-01	U	pCi/g	100%	6.45E-01	1.50E+01	
	J1FKM6								
	MFTW51AG	TC-99	4.27E-01 +- 3.8E-01	U	pCi/g	100%	6.33E-01	1.50E+01	
	J1FKM7								
	MFTW61AG	TC-99	5.75E-01 +- 3.8E-01	U	pCi/g	100%	6.15E-01	1.50E+01	
	J1FKM8								
	MFTW71AG	TC-99	8.09E-01 +- 4.1E-01		pCi/g	100%	6.56E-01	1.50E+01	
	J1FKM9								
	MFTW81AG	TC-99	1.77E-01 +- 3.6E-01	U	pCi/g	100%	6.26E-01	1.50E+01	
1080215	**7196_CR6**								
	J1FKL6								
	MFTWD1AA	HEXCHROME	1.84E-01 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	
	MFTWD1AQ	HEXCHROME	2.76E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	3.50E-01	40.0
	J1FKL7								
	MFTWL1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FKL8								
	MFTWM1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FKL9								
	MFTWQ1AA	HEXCHROME	1.51E-01 +- 0.0E+00	U	mg/kg	N/A	1.51E-01	1.55E-01	
	J1FKM0								
	MFTWX1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FKM1								
	MFTW01AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1FKM2								
	MFTW11AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1FKM3								

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: 28-Mar-11

Report No. : 46064

SDG No: JP0127

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1080215	7196_CR6								
J1FKM3									
	MFTW21AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
J1FKM4									
	MFTW31AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
J1FKM5									
	MFTW41AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
J1FKM6									
	MFTW51AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
J1FKM7									
	MFTW61AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
J1FKM8									
	MFTW71AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
J1FKM9									
	MFTW81AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	

No. of Results: 285

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: 28-Mar-11

Report No. : 46064

SDG No.: JP0127

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
PUISO_PLATE_AEA								
1077129 BLANK QC,								
MFT9F1AA	PU-238	0.00E+00 +- 6.7E-02	U	pCi/g	100%			1.26E-01
	PU239/40	-1.68E-03 +- 6.7E-02	U	pCi/g	100%			1.26E-01
1077129 LCS,								
MFT9F1AC	PU239/40	5.78E+00 +- 1.5E+00		pCi/g	100%	82%	-0.2	1.29E-01
UISO_IE_PLATE_AEA								
1077132 BLANK QC,								
MFT9Q1AA	U-234	1.78E-02 +- 5.2E-02	U	pCi/g	97%			1.34E-01
	U-235	-5.13E-03 +- 5.1E-02	U	pCi/g	97%			1.22E-01
	U-238	-5.13E-03 +- 5.1E-02	U	pCi/g	97%			1.22E-01
1077132 LCS,								
MFT9Q1AC	U-234	2.93E+00 +- 7.9E-01		pCi/g	91%	93%	-0.1	1.08E-01
	U-238	2.98E+00 +- 8.0E-01		pCi/g	91%	90%	-0.1	9.01E-02
GAMMA_GS								
1077127 BLANK QC,								
MFT8T1AA	AG-108M	-1.27E-03 +- 9.0E-03	U	pCi/g				1.56E-02
	AMERICIUM 241	9.72E-03 +- 4.6E-02	U	pCi/g				7.93E-02
	BA-133	1.19E-02 +- 1.7E-02	U	pCi/g				2.63E-02
	CO-60	-4.80E-03 +- 1.2E-02	U	pCi/g				2.09E-02
	CS-137	-2.55E-03 +- 1.2E-02	U	pCi/g				1.99E-02
	EU-152	-3.59E-03 +- 3.5E-02	U	pCi/g				5.63E-02
	EU-154	-8.24E-03 +- 2.7E-02	U	pCi/g				4.72E-02
	EU-155	-2.55E-02 +- 3.1E-02	U	pCi/g				5.05E-02
1077127 LCS,								
MFT8T1AC	CS-137	1.08E+00 +- 1.5E-01		pCi/g		100%	0.0	3.42E-02
SRTOT_SEP_PRECIP_GPC								
1077144 BLANK QC,								
MFVCE1AA	STRONTIUM	1.78E-02 +- 5.2E-02	U	pCi/g	94%			1.19E-01
1077144 LCS,								
MFVCE1AC	STRONTIUM	9.37E-01 +- 2.7E-01		pCi/g	95%	83%	-0.2	1.33E-01
C14_CHEM_LSC								
1077135 BLANK QC,								
MFVAE1AA	C-14	2.21E-03 +- 5.2E-03	U	pCi/g	100%			1.13E-02
1077135 LCS,								
MFVAE1AC	C-14	7.00E+00 +- 5.1E-01		pCi/g	100%	94%	-0.1	4.54E-01
906.0_H3_LSC								
1077137 BLANK QC,								
MFVAL1AA	H-3	2.29E-02 +- 1.9E-02	U	pCi/g	100%			4.13E-02
1077137 LCS,								
MFVAL1AC	H-3	2.84E-01 +- 2.9E-02		pCi/g	100%	87%	-0.1	4.18E-02
NI63_LSC								

TestAmerica
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A2002

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

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

QC Results Summary

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 28-Mar-11

Report No. : 46064

SDG No.: JP0127

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
1077140 BLANK QC,								
MFVA41AA	NI-63	2.43E-01 +- 6.5E+00	U	pCi/g	89%			1.38E+01
1077140 LCS,								
MFVA41AC	NI-63	4.44E+02 +- 4.2E+01		pCi/g	94%	82%	-0.2	1.21E+01
TC99_ETVDSK_LSC								
1077142 BLANK QC,								
MFVA91AA	TC-99	1.19E-01 +- 3.6E-01	U	pCi/g	100%			6.26E-01
1077142 LCS,								
MFVA91AC	TC-99	6.57E+01 +- 4.7E+00		pCi/g	100%	94%	-0.1	6.45E-01
1077142 MATRIX SPIKE, J1FKM0								
MFTWX1AL	TC-99	1.96E+02 +- 1.3E+01		pCi/g	100%	90%	-0.1	6.18E-01
7196_CR6								
1080215 MATRIX SPIKE, J1FKL6								
MFTWD1AP	HEXCHROME	9.45E+00 +- 0.0E+00		mg/kg	N/A	89%	-0.1	1.54E-01
1080215 LCS,								
MFXXN1AC	HEXCHROME	1.84E+01 +- 0.0E+00		mg/kg	N/A	92%	-0.1	1.55E-01
1080215 BLANK QC,								
MFXXN1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 31

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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:10:00 AM
Lot-Sample No.:	J1C170613-1	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL6	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:**	MFTWD1AJ		**Report DB ID:**	9MFTWD10				
AG-108M	***-4.34E-03***	U	1.4E-02	1.4E-02	2.30E-02	pCi/g		*-0.19*	3/21/11 12:47 p		371.4	GER15$1
								-0.64			g	
AMERICIUM 241	***9.32E-03***	U	3.1E-02	3.1E-02	5.35E-02	pCi/g		*0.17*	3/21/11 12:47 p		371.4	GER15$1
								0.6			g	
BA-133	***1.44E-02***	U	2.2E-02	2.2E-02	3.45E-02	pCi/g		*0.42*	3/21/11 12:47 p		371.4	GER15$1
								(1.3)			g	
CO-60	***1.83E-02***	U	1.8E-02	1.8E-02	3.46E-02	pCi/g		*0.53*	3/21/11 12:47 p		371.4	GER15$1
							5.00E-02	*(2.1)*			g	
CS-137	***-4.78E-03***	U	1.7E-02	1.7E-02	2.98E-02	pCi/g		*-0.16*	3/21/11 12:47 p		371.4	GER15$1
							1.00E-01	*-0.55*			g	
EU-152	***4.32E-02***	U	4.2E-02	4.2E-02	7.74E-02	pCi/g		*0.56*	3/21/11 12:47 p		371.4	GER15$1
							1.00E-01	*(2.)*			g	
EU-154	***-3.53E-02***	U	6.0E-02	6.0E-02	9.92E-02	pCi/g		*-0.36*	3/21/11 12:47 p		371.4	GER15$1
							1.00E-01	*-(1.2)*			g	
EU-155	***8.20E-02***	U	4.4E-02	4.4E-02	7.73E-02	pCi/g		*(1.1)*	3/21/11 12:47 p		371.4	GER15$1
							1.00E-01	*(3.7)*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:**	MFTWD1AF		**Report DB ID:**	9MFTWD10				
PU-238	***3.95E-02***	U	7.9E-02	8.0E-02	1.48E-01	pCi/g	87%	*0.27*	3/23/11 04:52 p		1.01	ALP123
						2.06E-02	1.00E+00	*0.99*			g	
PU239/40	***-3.97E-03***	U	7.9E-02	7.9E-02	1.65E-01	pCi/g	87%	*-0.02*	3/23/11 04:52 p		1.01	ALP123
						2.91E-02	1.00E+00	*-0.1*			g	

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:10:00 AM
Lot-Sample No.:	J1C170613-1	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL6	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:**	MFTWD1AC		**Report DB ID:**	9MFTWD10				
U-234	***1.38E-01***	U	1.3E-01	1.3E-01	1.77E-01	pCi/g	90%	*0.78*	3/24/11 06:49 a		1.03	ALP3
						5.31E-02	1.00E+00	*(2.1)*			g	
U-235	***-1.19E-02***	U	5.3E-02	5.3E-02	1.54E-01	pCi/g	90%	*-0.08*	3/24/11 06:49 a		1.03	ALP3
						4.11E-02	1.00E+00	*-0.44*			g	
U-238	***1.86E-01***	U	1.5E-01	1.5E-01	1.91E-01	pCi/g	90%	*0.97*	3/24/11 06:49 a		1.03	ALP3
						5.97E-02	1.00E+00	*(2.4)*			g	
							Ratio U-234/238 = 0.7					
Batch: 1077135	C14_CHEM_LSC			**Work Order:**	MFTWD1AK		**Report DB ID:**	9MFTWD10				
C-14	***-4.86E-02***	U	1.8E-01	2.0E-01	4.51E-01	pCi/g	100%	*-0.11*	3/22/11 05:55 p		5.029	LSC3
						2.12E-01	5.00E+01	*-0.49*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:**	MFTWD1AH		**Report DB ID:**	9MFTWD10				
H-3	***1.88E-03***	U	1.1E-02	1.2E-02	2.64E-02	pCi/g	100%	*0.07*	3/23/11 10:03 p		65.8	LSC3
						1.25E-02	4.00E+02	*0.31*			g	
Batch: 1077140	NI63_LSC			**Work Order:**	MFTWD1AE		**Report DB ID:**	9MFTWD10				
NI-63	***3.64E-01***	U	5.5E+00	6.3E+00	1.35E+01	pCi/g	99%	*0.03*	3/25/11 03:11 a		0.24	LSC3
						6.34E+00	3.00E+01	*0.12*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:**	MFTWD1AG		**Report DB ID:**	9MFTWD10				
TC-99	***-1.28E-02***	U	2.6E-01	3.6E-01	6.42E-01	pCi/g	100%	*-0.02*	3/23/11 11:08 p		1.98	LSC6
						3.08E-01	1.50E+01	*-0.07*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MFTWD1AD		**Report DB ID:**	9MFTWD10				

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	**TestAmerica**	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:10:00 AM
Lot-Sample No.:	**J1C170613-1**	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	**J1FKL6**	**COC No. :**	RC-107-063	**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
STRONTIUM	***5.60E-02***	U	8.4E-02	8.6E-02	1.86E-01	pCi/g	63%	*0.3*	3/25/11 06:43 a		6.02	GPC26A
						8.70E-02		*(1.3)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTWD1AA		**Report DB ID:**	9MFTWD10				
HEXCHROME	***1.84E-01***			0.0E+00	1.54E-01	mg/kg	N/A	*(1.2)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 8:30:00 AM
Lot-Sample No.:	J1C170613-2	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL7	COC No. :	RC-107-063	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: 1077127	GAMMA_GS			Work Order: MFTWL1AJ			Report DB ID: 9MFTWL10					
AG-108M	***2.63E-03***	U	9.9E-03	9.9E-03	1.75E-02	pCi/g		*0.15*	3/21/11 12:48 p		357.8	GER11$1
								0.53			g	
AMERICIUM 241	***-5.70E-02***	U	9.1E-02	9.1E-02	1.47E-01	pCi/g		*-0.39*	3/21/11 12:48 p		357.8	GER11$1
								-(1.2)			g	
BA-133	***4.85E-04***	U	1.5E-02	1.5E-02	2.37E-02	pCi/g		*0.02*	3/21/11 12:48 p		357.8	GER11$1
								0.07			g	
CO-60	***2.60E-03***	U	1.5E-02	1.5E-02	2.77E-02	pCi/g		*0.09*	3/21/11 12:48 p		357.8	GER11$1
							5.00E-02	*0.34*			g	
CS-137	***1.80E-02***	U	1.4E-02	1.4E-02	2.58E-02	pCi/g		*0.7*	3/21/11 12:48 p		357.8	GER11$1
							1.00E-01	*(2.6)*			g	
EU-152	***-7.82E-03***	U	3.4E-02	3.4E-02	5.70E-02	pCi/g		*-0.14*	3/21/11 12:48 p		357.8	GER11$1
							1.00E-01	*-0.46*			g	
EU-154	***8.21E-03***	U	4.7E-02	4.7E-02	8.41E-02	pCi/g		*0.1*	3/21/11 12:48 p		357.8	GER11$1
							1.00E-01	*0.35*			g	
EU-155	***5.74E-02***	U	3.8E-02	3.8E-02	6.74E-02	pCi/g		*0.85*	3/21/11 12:48 p		357.8	GER11$1
							1.00E-01	*(3.)*			g	
Batch: 1077129	PUISO_PLATE_AEA			Work Order: MFTWL1AF			Report DB ID: 9MFTWL10					
PU-238	***0.00E+00***	U	0.0E+00	7.0E-02	1.31E-01	pCi/g	94%	*0.*	3/23/11 04:53 p		1.01	ALP124
						1.82E-02	1.00E+00	*0.*			g	
PU239/40	***-1.76E-03***	U	7.0E-02	7.0E-02	1.31E-01	pCi/g	94%	*-0.01*	3/23/11 04:53 p		1.01	ALP124
						1.82E-02	1.00E+00	*-0.05*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:30:00 AM
Lot-Sample No.:	J1C170613-2	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL7	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:**	MFTWL1AC		**Report DB ID:**	9MFTWL10				
U-234	***2.18E-01***		1.5E-01	1.5E-01	1.42E-01	pCi/g	107%	*(1.5)*	3/24/11 06:50 a		1.04	ALP4
						3.99E-02	1.00E+00	*(2.9)*			g	
U-235	***-4.64E-03***	U	4.6E-02	4.6E-02	1.11E-01	pCi/g	107%	*-0.04*	3/24/11 06:50 a		1.04	ALP4
						2.41E-02	1.00E+00	*-0.2*			g	
U-238	***1.74E-01***		1.3E-01	1.4E-01	1.35E-01	pCi/g	107%	*(1.3)*	3/24/11 06:50 a		1.04	ALP4
						3.61E-02	1.00E+00	*(2.6)*			g	
							Ratio U-234/238 = 1.3					
Batch: 1077135	C14_CHEM_LSC			**Work Order:**	MFTWL1AK		**Report DB ID:**	9MFTWL10				
C-14	***-1.47E-01***	U	1.7E-01	1.9E-01	4.50E-01	pCi/g	100%	*-0.33*	3/22/11 06:41 p		5.037	LSC3
						2.12E-01	5.00E+01	*-(1.5)*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:**	MFTWL1AH		**Report DB ID:**	9MFTWL10				
H-3	***7.42E-04***	U	7.0E-03	7.4E-03	1.66E-02	pCi/g	100%	*0.04*	3/24/11 12:49 a		105.9	LSC3
						7.91E-03	4.00E+02	*0.2*			g	
Batch: 1077140	NI63_LSC			**Work Order:**	MFTWL1AE		**Report DB ID:**	9MFTWL10				
NI-63	***1.47E+00***	U	5.2E+00	6.1E+00	1.28E+01	pCi/g	100%	*0.12*	3/25/11 03:34 a		0.25	LSC3
						5.99E+00	3.00E+01	*0.48*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:**	MFTWL1AG		**Report DB ID:**	9MFTWL10				
TC-99	***4.03E-01***	U	2.7E-01	3.7E-01	6.25E-01	pCi/g	100%	*0.64*	3/24/11 12:11 a		2.06	LSC6
						3.00E-01	1.50E+01	*(2.2)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MFTWL1AD		**Report DB ID:**	9MFTWL10				

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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:30:00 AM
Lot-Sample No.:	J1C170613-2	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL7	**COC No. :**	RC-107-063	**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
STRONTIUM	***8.50E-02***	U	8.1E-02	8.4E-02	1.71E-01	pCi/g	63%	*0.5*	3/25/11 06:43 a		6.06	GPC26B
						7.97E-02		*(2.)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTWL1AA		**Report DB ID:**	9MFTWL10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:35:00 AM
Lot-Sample No.:	J1C170613-3	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL8	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:**	MFTWM1AJ		**Report DB ID:**	9MFTWM10				
AG-108M	***4.55E-03***	U	1.4E-02	1.4E-02	2.49E-02	pCi/g		*0.18*	3/21/11 12:49 p		367.9	GER7$1
								0.65			g	
AMERICIUM 241	***-5.72E-02***	U	6.3E-02	6.3E-02	1.02E-01	pCi/g		*-0.56*	3/21/11 12:49 p		367.9	GER7$1
								-(1.8)			g	
BA-133	***-1.27E-03***	U	2.5E-02	2.5E-02	3.58E-02	pCi/g		*-0.04*	3/21/11 12:49 p		367.9	GER7$1
								-0.1			g	
CO-60	***6.47E-03***	U	2.0E-02	2.0E-02	3.66E-02	pCi/g		*0.18*	3/21/11 12:49 p		367.9	GER7$1
							5.00E-02	*0.65*			g	
CS-137	***-7.60E-03***	U	2.0E-02	2.0E-02	3.41E-02	pCi/g		*-0.22*	3/21/11 12:49 p		367.9	GER7$1
							1.00E-01	*-0.76*			g	
EU-152	***-1.64E-02***	U	4.8E-02	4.8E-02	7.98E-02	pCi/g		*-0.2*	3/21/11 12:49 p		367.9	GER7$1
							1.00E-01	*-0.68*			g	
EU-154	***-1.37E-02***	U	6.5E-02	6.5E-02	1.13E-01	pCi/g		*-0.12*	3/21/11 12:49 p		367.9	GER7$1
							1.00E-01	*-0.42*			g	
EU-155	***7.27E-02***	U	4.8E-02	4.8E-02	8.55E-02	pCi/g		*0.85*	3/21/11 12:49 p		367.9	GER7$1
							1.00E-01	*(3.)*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:**	MFTWM1AF		**Report DB ID:**	9MFTWM10				
PU-238	***5.23E-02***	U	1.0E-01	1.1E-01	1.96E-01	pCi/g	71%	*0.27*	3/23/11 04:54 p		1.02	ALP127
						2.73E-02	1.00E+00	*0.99*			g	
PU239/40	***0.00E+00***	U	0.0E+00	1.0E-01	1.96E-01	pCi/g	71%	*0.*	3/23/11 04:54 p		1.02	ALP127
						2.73E-02	1.00E+00	*0.*			g	

TestAmerica
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V5.2.12 A2002

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:35:00 AM
Lot-Sample No.:	J1C170613-3	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL8	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTWM1AC			**Report DB ID:** 9MFTWM10					
U-234	***4.30E-02***	U	6.6E-02	6.6E-02	1.05E-01	pCi/g	100%	*0.41*	3/24/11 06:50 a		0.97	ALP9
						2.10E-02	1.00E+00	*(1.3)*			g	
U-235	***0.00E+00***	U	0.0E+00	4.7E-02	8.73E-02	pCi/g	100%	*0.*	3/24/11 06:50 a		0.97	ALP9
						1.21E-02	1.00E+00	*0.*			g	
U-238	***1.15E-01***		1.0E-01	1.1E-01	8.73E-02	pCi/g	100%	*(1.3)*	3/24/11 06:50 a		0.97	ALP9
						1.21E-02	1.00E+00	*(2.2)*			g	
								Ratio U-234/238 = 0.4				
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTWM1AK			**Report DB ID:** 9MFTWM10					
C-14	***3.45E-02***	U	1.8E-01	2.0E-01	4.50E-01	pCi/g	100%	*0.08*	3/22/11 07:04 p		5.034	LSC3
						2.12E-01	5.00E+01	*0.34*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTWM1AH			**Report DB ID:** 9MFTWM10					
H-3	***6.38E-03***	U	6.8E-03	7.2E-03	1.56E-02	pCi/g	100%	*0.41*	3/24/11 02:12 a		112.1	LSC3
						7.43E-03	4.00E+02	*(1.8)*			g	
Batch: 1077140	NI63_LSC			**Work Order:** MFTWM1AE			**Report DB ID:** 9MFTWM10					
NI-63	***3.23E+00***	U	5.1E+00	6.0E+00	1.23E+01	pCi/g	96%	*0.26*	3/25/11 03:57 a		0.27	LSC3
						5.77E+00	3.00E+01	*(1.1)*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTWM1AG			**Report DB ID:** 9MFTWM10					
TC-99	***2.88E-01***	U	2.6E-01	3.7E-01	6.24E-01	pCi/g	100%	*0.46*	3/24/11 01:14 a		2.06	LSC6
						2.99E-01	1.50E+01	*(1.6)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFTWM1AD			**Report DB ID:** 9MFTWM10					

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:35:00 AM
Lot-Sample No.:	J1C170613-3	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL8	**COC No. :**	RC-107-063	**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
STRONTIUM	***1.01E-02***	U	7.1E-02	7.1E-02	1.67E-01	pCi/g	61%	*0.06*	3/25/11 06:43 a		6.06	GPC26C
						7.76E-02		*0.28*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTWM1AA		**Report DB ID:**	9MFTWM10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:40:00 AM
Lot-Sample No.:	J1C170613-4	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL9	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:**	MFTWQ1AJ		**Report DB ID:**	9MFTWQ10				
AG-108M	***-1.80E-03***	U	1.3E-02	1.3E-02	2.26E-02	pCi/g		*-0.08*	3/21/11 12:49 p		387.9	GER10$1
								-0.27			g	
AMERICIUM 241	***3.08E-02***	U	7.0E-02	7.0E-02	1.19E-01	pCi/g		*0.26*	3/21/11 12:49 p		387.9	GER10$1
								0.88			g	
BA-133	***2.76E-02***	U	2.2E-02	2.2E-02	3.39E-02	pCi/g		*0.81*	3/21/11 12:49 p		387.9	GER10$1
								(2.5)			g	
CO-60	***-6.87E-04***	U	1.4E-02	1.4E-02	2.46E-02	pCi/g		*-0.03*	3/21/11 12:49 p		387.9	GER10$1
							5.00E-02	*-0.1*			g	
CS-137	***-4.82E-03***	U	1.5E-02	1.5E-02	2.62E-02	pCi/g		*-0.18*	3/21/11 12:49 p		387.9	GER10$1
							1.00E-01	*-0.62*			g	
EU-152	***1.55E-02***	U	7.1E-02	7.1E-02	7.45E-02	pCi/g		*0.21*	3/21/11 12:49 p		387.9	GER10$1
							1.00E-01	*0.44*			g	
EU-154	***-5.15E-02***	U	5.4E-02	5.4E-02	8.64E-02	pCi/g		*-0.6*	3/21/11 12:49 p		387.9	GER10$1
							1.00E-01	*-(1.9)*			g	
EU-155	***-4.94E-03***	U	5.3E-02	5.3E-02	8.83E-02	pCi/g		*-0.06*	3/21/11 12:49 p		387.9	GER10$1
							1.00E-01	*-0.19*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:**	MFTWQ1AF		**Report DB ID:**	9MFTWQ10				
PU-238	***0.00E+00***	U	0.0E+00	9.1E-02	1.71E-01	pCi/g	81%	*0.*	3/23/11 04:54 p		0.99	ALP128
						2.37E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	9.1E-02	1.71E-01	pCi/g	81%	*0.*	3/23/11 04:54 p		0.99	ALP128
						2.37E-02	1.00E+00	*0.*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 8:40:00 AM
Lot-Sample No.:	J1C170613-4	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL9	COC No. :	RC-107-063	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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTWQ1AC			**Report DB ID:** 9MFTWQ10					
U-234	***1.62E-01***		1.2E-01	1.3E-01	8.70E-02	pCi/g	100%	*(1.9)*	3/24/11 06:50 a		0.99	ALP12
						1.21E-02	1.00E+00	*(2.6)*			g	
U-235	***-1.16E-03***	U	4.6E-02	4.6E-02	8.70E-02	pCi/g	100%	*-0.01*	3/24/11 06:50 a		0.99	ALP12
						1.21E-02	1.00E+00	*-0.05*			g	
U-238	***1.60E-01***		1.2E-01	1.3E-01	9.70E-02	pCi/g	100%	*(1.6)*	3/24/11 06:50 a		0.99	ALP12
						1.71E-02	1.00E+00	*(2.5)*			g	
							Ratio U-234/238 = 1.0					
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTWQ1AK			**Report DB ID:** 9MFTWQ10					
C-14	***3.99E-02***	U	1.8E-01	2.0E-01	4.50E-01	pCi/g	100%	*0.09*	3/22/11 07:27 p		5.043	LSC3
						2.12E-01	5.00E+01	*0.4*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTWQ1AH			**Report DB ID:** 9MFTWQ10					
H-3	***3.75E-03***	U	6.6E-03	7.0E-03	1.53E-02	pCi/g	100%	*0.25*	3/24/11 03:35 a		114.5	LSC3
						7.28E-03	4.00E+02	*(1.1)*			g	
Batch: 1077140	NI63_LSC			**Work Order:** MFTWQ1AE			**Report DB ID:** 9MFTWQ10					
NI-63	***-3.18E-01***	U	4.9E+00	5.7E+00	1.22E+01	pCi/g	94%	*-0.03*	3/25/11 04:20 a		0.28	LSC3
						5.72E+00	3.00E+01	*-0.11*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTWQ1AG			**Report DB ID:** 9MFTWQ10					
TC-99	***5.20E-01***	U	2.7E-01	3.8E-01	6.17E-01	pCi/g	100%	*0.84*	3/24/11 02:16 a		2.05	LSC6
						2.96E-01	1.50E+01	*(2.7)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFTWQ1AD			**Report DB ID:** 9MFTWQ10					

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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:40:00 AM
Lot-Sample No.:	J1C170613-4	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL9	**COC No. :**	RC-107-063	**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
STRONTIUM	***2.41E-02***	U	6.7E-02	6.8E-02	1.54E-01	pCi/g	64%	*0.16*	3/25/11 06:43 a		6.03	GPC26D
						7.11E-02		*0.71*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTWQ1AA		**Report DB ID:**	9MFTWQ10				
HEXCHROME	***1.51E-01***	U		0.0E+00	1.51E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:50:00 AM
Lot-Sample No.:	J1C170613-5	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM0	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:** MFTWX1AJ			**Report DB ID:** 9MFTWX10					
AG-108M	***1.43E-02***	U	3.6E-02	3.6E-02	6.50E-02	pCi/g		*0.22*	3/21/11 12:50 p		69.3	GER14$1
								0.79			g	
AMERICIUM 241	***-3.90E-02***	U	5.2E-02	5.2E-02	8.41E-02	pCi/g		*-0.46*	3/21/11 12:50 p		69.3	GER14$1
								-(1.5)			g	
BA-133	***-8.73E-03***	U	6.0E-02	6.0E-02	8.54E-02	pCi/g		*-0.1*	3/21/11 12:50 p		69.3	GER14$1
								-0.29			g	
CO-60	***1.79E-02***	U	4.9E-02	4.9E-02	9.26E-02	pCi/g		*0.19*	3/21/11 12:50 p		69.3	GER14$1
							5.00E-02	*0.73*			g	
CS-137	***-3.28E-02***	U	4.9E-02	4.9E-02	8.04E-02	pCi/g		*-0.41*	3/21/11 12:50 p		69.3	GER14$1
							1.00E-01	*-(1.3)*			g	
EU-152	***1.33E-02***	U	1.2E-01	1.2E-01	1.90E-01	pCi/g		*0.07*	3/21/11 12:50 p		69.3	GER14$1
							1.00E-01	*0.23*			g	
EU-154	***1.74E-02***	U	1.5E-01	1.5E-01	2.79E-01	pCi/g		*0.06*	3/21/11 12:50 p		69.3	GER14$1
							1.00E-01	*0.23*			g	
EU-155	***6.50E-03***	U	8.1E-02	8.1E-02	1.39E-01	pCi/g		*0.05*	3/21/11 12:50 p		69.3	GER14$1
							1.00E-01	*0.16*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:** MFTWX1AF			**Report DB ID:** 9MFTWX10					
PU-238	***-6.01E-03***	U	6.0E-02	6.0E-02	1.44E-01	pCi/g	95%	*-0.04*	3/23/11 07:28 p		1.0	ALP38
						3.12E-02	1.00E+00	*-0.2*			g	
PU239/40	***-3.00E-03***	U	6.0E-02	6.0E-02	1.25E-01	pCi/g	95%	*-0.02*	3/23/11 07:28 p		1.0	ALP38
						2.21E-02	1.00E+00	*-0.1*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 8:50:00 AM
Lot-Sample No.:	J1C170613-5	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM0	COC No. :	RC-107-063	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: 1077132	UISO_IE_PLATE_AEA			Work Order:	MFTWX1AC		Report DB ID: 9MFTWX10					
U-234	***1.27E-01***		1.2E-01	1.2E-01	1.20E-01	pCi/g	87%	*(1.1)*	3/24/11 06:50 a		1.05	ALP71
						2.45E-02	1.00E+00	*(2.1)*			g	
U-235	***-1.58E-03***	U	5.3E-02	5.3E-02	1.01E-01	pCi/g	87%	*-0.02*	3/24/11 06:50 a		1.05	ALP71
						1.50E-02	1.00E+00	*-0.06*			g	
U-238	***7.72E-02***	U	9.1E-02	9.2E-02	1.01E-01	pCi/g	87%	*0.76*	3/24/11 06:50 a		1.05	ALP71
						1.50E-02	1.00E+00	*(1.7)*			g	
							Ratio U-234/238 = 1.6					
Batch: 1077135	C14_CHEM_LSC			Work Order:	MFTWX1AK		Report DB ID: 9MFTWX10					
C-14	***-1.11E-01***	U	1.8E-01	1.9E-01	4.51E-01	pCi/g	100%	*-0.25*	3/22/11 07:49 p		5.023	LSC3
						2.12E-01	5.00E+01	*-(1.1)*			g	
Batch: 1077137	906.0_H3_LSC			Work Order:	MFTWX1AH		Report DB ID: 9MFTWX10					
H-3	***2.50E-03***	U	7.0E-03	7.5E-03	1.66E-02	pCi/g	100%	*0.15*	3/24/11 04:58 a		106.2	LSC3
						7.87E-03	4.00E+02	*0.67*			g	
Batch: 1077140	NI63_LSC			Work Order:	MFTWX1AE		Report DB ID: 9MFTWX10					
NI-63	***2.88E+00***	U	5.7E+00	6.6E+00	1.37E+01	pCi/g	97%	*0.21*	3/25/11 05:05 a		0.24	LSC3
						6.43E+00	3.00E+01	*0.87*			g	
Batch: 1077142	TC99_ETVDSK_LSC			Work Order:	MFTWX1AG		Report DB ID: 9MFTWX10					
TC-99	***1.65E-01***	U	2.5E-01	3.5E-01	6.07E-01	pCi/g	100%	*0.27*	3/24/11 03:19 a		2.07	LSC6
						2.91E-01	1.50E+01	*0.93*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			Work Order:	MFTWX1AD		Report DB ID: 9MFTWX10					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:50:00 AM
Lot-Sample No.:	J1C170613-5	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM0	**COC No. :**	RC-107-063	**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
STRONTIUM	***9.38E-02***	U	8.3E-02	8.6E-02	1.71E-01	pCi/g	60%	*0.55*	3/25/11 06:43 a		6.0	GPC27A
						7.93E-02		*(2.2)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTWX1AA		**Report DB ID:**	9MFTWX10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 9:35:00 AM
Lot-Sample No.:	J1C170613-6	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM1	COC No. :	RC-107-063	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: 1077127	GAMMA_GS			Work Order:	MFTW01AJ		Report DB ID:	9MFTW010				
AG-108M	***-6.01E-03***	U	3.7E-02	3.7E-02	6.37E-02	pCi/g		*-0.09*	3/21/11 05:28 p		57.4	GER7$1
								-0.33			g	
AMERICIUM 241	***-2.44E-02***	U	1.1E-01	1.1E-01	1.83E-01	pCi/g		*-0.13*	3/21/11 05:28 p		57.4	GER7$1
								-0.45			g	
BA-133	***-3.60E-03***	U	5.8E-02	5.8E-02	8.41E-02	pCi/g		*-0.04*	3/21/11 05:28 p		57.4	GER7$1
								-0.12			g	
CO-60	***-1.59E-02***	U	4.5E-02	4.5E-02	7.89E-02	pCi/g		*-0.2*	3/21/11 05:28 p		57.4	GER7$1
							5.00E-02	*-0.71*			g	
CS-137	***5.28E-02***	U	5.1E-02	5.1E-02	9.69E-02	pCi/g		*0.54*	3/21/11 05:28 p		57.4	GER7$1
							1.00E-01	*(2.1)*			g	
EU-152	***3.84E-03***	U	1.1E-01	1.1E-01	1.98E-01	pCi/g		*0.02*	3/21/11 05:28 p		57.4	GER7$1
							1.00E-01	*0.07*			g	
EU-154	***4.77E-02***	U	1.5E-01	1.5E-01	2.74E-01	pCi/g		*0.17*	3/21/11 05:28 p		57.4	GER7$1
							1.00E-01	*0.66*			g	
EU-155	***9.90E-02***	U	9.0E-02	9.0E-02	1.63E-01	pCi/g		*0.61*	3/21/11 05:28 p		57.4	GER7$1
							1.00E-01	*(2.2)*			g	
Batch: 1077129	PUISO_PLATE_AEA			Work Order:	MFTW01AF		Report DB ID:	9MFTW010				
PU-238	***-1.96E-03***	U	7.8E-02	7.8E-02	1.47E-01	pCi/g	79%	*-0.01*	3/23/11 07:28 p		1.0	ALP39
						2.04E-02	1.00E+00	*-0.05*			g	
PU239/40	***-1.96E-03***	U	7.8E-02	7.8E-02	1.47E-01	pCi/g	79%	*-0.01*	3/23/11 07:28 p		1.0	ALP39
						2.04E-02	1.00E+00	*-0.05*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:35:00 AM
Lot-Sample No.:	J1C170613-6	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM1	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTW01AC			**Report DB ID:** 9MFTW010					
U-234	***1.38E-01***		1.3E-01	1.3E-01	1.30E-01	pCi/g	99%	*(1.1)*	3/24/11 06:50 a		1.0	ALP84
						2.64E-02	1.00E+00	*(2.1)*			g	
U-235	***5.51E-02***	U	8.0E-02	8.1E-02	1.09E-01	pCi/g	99%	*0.5*	3/24/11 06:50 a		1.0	ALP84
						1.62E-02	1.00E+00	*(1.4)*			g	
U-238	***2.44E-02***	U	5.7E-02	5.7E-02	1.26E-01	pCi/g	99%	*0.19*	3/24/11 06:50 a		1.0	ALP84
						2.47E-02	1.00E+00	*0.86*			g	
							Ratio U-234/238 = 5.6					
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTW01AK			**Report DB ID:** 9MFTW010					
C-14	***-2.25E-02***	U	1.8E-01	2.0E-01	4.48E-01	pCi/g	100%	*-0.05*	3/22/11 08:12 p		5.05	LSC3
						2.11E-01	5.00E+01	*-0.23*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTW01AH			**Report DB ID:** 9MFTW010					
H-3	***2.66E-03***	U	9.6E-03	1.0E-02	2.48E-02	pCi/g	100%	*0.11*	3/24/11 06:22 a		83.4	LSC3
						1.18E-02	4.00E+02	*0.52*			g	
Batch: 1077140	NI63_LSC			**Work Order:** MFTW01AE			**Report DB ID:** 9MFTW010					
NI-63	***3.13E-01***	U	5.4E+00	6.2E+00	1.33E+01	pCi/g	100%	*0.02*	3/25/11 05:28 a		0.24	LSC3
						6.25E+00	3.00E+01	*0.1*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTW01AG			**Report DB ID:** 9MFTW010					
TC-99	***3.97E-01***	U	2.7E-01	3.8E-01	6.21E-01	pCi/g	100%	*0.64*	3/24/11 06:27 a		2.04	LSC6
						2.98E-01	1.50E+01	*(2.1)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFTW01AD			**Report DB ID:** 9MFTW010					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:35:00 AM
Lot-Sample No.:	J1C170613-6	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM1	**COC No. :**	RC-107-063	**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
STRONTIUM	***8.56E-02***	U	8.4E-02	8.7E-02	1.78E-01	pCi/g	60%	*0.48*	3/25/11 06:43 a		6.04	GPC27B
						8.30E-02		*(2.)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW01AA		**Report DB ID:**	9MFTW010				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 9:40:00 AM
Lot-Sample No.:	J1C170613-7	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM2	COC No. :	RC-107-063	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: 1077127	GAMMA_GS			Work Order:	MFTW11AJ		Report DB ID:	9MFTW110				
AG-108M	***2.46E-03***	U	1.6E-02	1.6E-02	2.94E-02	pCi/g		*0.08*	3/21/11 05:29 p		72.7	GER11$1
								0.3			g	
AMERICIUM 241	***-9.74E-02***	U	1.4E-01	1.4E-01	2.21E-01	pCi/g		*-0.44*	3/21/11 05:29 p		72.7	GER11$1
								-(1.4)			g	
BA-133	***1.44E-02***	U	2.6E-02	2.6E-02	4.20E-02	pCi/g		*0.34*	3/21/11 05:29 p		72.7	GER11$1
								(1.1)			g	
CO-60	***4.91E-03***	U	2.5E-02	2.5E-02	4.75E-02	pCi/g		*0.1*	3/21/11 05:29 p		72.7	GER11$1
							5.00E-02	*0.39*			g	
CS-137	***5.15E-02***	U	3.0E-02	3.0E-02	5.71E-02	pCi/g		*0.9*	3/21/11 05:29 p		72.7	GER11$1
							1.00E-01	*(3.4)*			g	
EU-152	***2.58E-02***	U	5.5E-02	5.5E-02	9.74E-02	pCi/g		*0.26*	3/21/11 05:29 p		72.7	GER11$1
							1.00E-01	*0.95*			g	
EU-154	***2.54E-03***	U	9.3E-02	9.3E-02	1.69E-01	pCi/g		*0.02*	3/21/11 05:29 p		72.7	GER11$1
							1.00E-01	*0.05*			g	
EU-155	***2.55E-02***	U	5.2E-02	5.2E-02	9.21E-02	pCi/g		*0.28*	3/21/11 05:29 p		72.7	GER11$1
							1.00E-01	*0.98*			g	
Batch: 1077129	PUISO_PLATE_AEA			Work Order:	MFTW11AF		Report DB ID:	9MFTW110				
PU-238	***-1.55E-03***	U	6.2E-02	6.2E-02	1.16E-01	pCi/g	93%	*-0.01*	3/23/11 07:54 p		0.99	ALP125
						1.61E-02	1.00E+00	*-0.05*			g	
PU239/40	***-1.55E-03***	U	6.2E-02	6.2E-02	1.16E-01	pCi/g	93%	*-0.01*	3/23/11 07:54 p		0.99	ALP125
						1.61E-02	1.00E+00	*-0.05*			g	

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 9:40:00 AM
Lot-Sample No.:	J1C170613-7	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM2	COC No. :	RC-107-063	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: 1077132	UISO_IE_PLATE_AEA			Work Order:	MFTW11AC		Report DB ID: 9MFTW110					
U-234	***1.41E-01***	U	1.3E-01	1.3E-01	1.54E-01	pCi/g	94%	*0.92*	3/24/11 07:51 a		1.01	ALP3
						4.23E-02	1.00E+00	*(2.2)*			g	
U-235	***-7.73E-03***	U	5.2E-02	5.2E-02	1.35E-01	pCi/g	94%	*-0.06*	3/24/11 07:51 a		1.01	ALP3
						3.28E-02	1.00E+00	*-0.3*			g	
U-238	***1.32E-01***	U	1.3E-01	1.3E-01	1.80E-01	pCi/g	94%	*0.74*	3/24/11 07:51 a		1.01	ALP3
						5.52E-02	1.00E+00	*(2.)*			g	
							Ratio U-234/238 = 1.1					
Batch: 1077135	C14_CHEM_LSC			Work Order:	MFTW11AK		Report DB ID: 9MFTW110					
C-14	***1.36E-02***	U	1.8E-01	2.0E-01	4.50E-01	pCi/g	100%	*0.03*	3/22/11 08:35 p		5.036	LSC3
						2.12E-01	5.00E+01	*0.14*			g	
Batch: 1077137	906.0_H3_LSC			Work Order:	MFTW11AH		Report DB ID: 9MFTW110					
H-3	***1.13E-02***	U	1.2E-02	1.3E-02	2.78E-02	pCi/g	100%	*0.41*	3/24/11 07:45 a		95.7	LSC3
						1.32E-02	4.00E+02	*(1.8)*			g	
Batch: 1077140	NI63_LSC			Work Order:	MFTW11AE		Report DB ID: 9MFTW110					
NI-63	***-1.31E+00***	U	4.9E+00	5.6E+00	1.23E+01	pCi/g	100%	*-0.11*	3/25/11 05:51 a		0.26	LSC3
						5.77E+00	3.00E+01	*-0.46*			g	
Batch: 1077142	TC99_ETVDSK_LSC			Work Order:	MFTW11AG		Report DB ID: 9MFTW110					
TC-99	***2.56E-01***	U	2.6E-01	3.6E-01	6.18E-01	pCi/g	100%	*0.41*	3/24/11 07:30 a		2.05	LSC6
						2.97E-01	1.50E+01	*(1.4)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			Work Order:	MFTW11AD		Report DB ID: 9MFTW110					

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:40:00 AM
Lot-Sample No.:	J1C170613-7	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM2	**COC No. :**	RC-107-063	**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
STRONTIUM	***2.07E-02***	U	7.5E-02	7.5E-02	1.73E-01	pCi/g	62%	*0.12*	3/25/11 06:43 a		5.98	GPC27D
						8.07E-02		*0.55*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW11AA		**Report DB ID:**	9MFTW110				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
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V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:45:00 AM
Lot-Sample No.:	J1C170613-8	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM3	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:**	MFTW21AJ		**Report DB ID:**	9MFTW210				
AG-108M	***-4.35E-03***	U	1.4E-02	1.4E-02	2.28E-02	pCi/g		*-0.19*	3/21/11 05:30 p		382.0	GER10$1
								-0.64			g	
AMERICIUM 241	***3.23E-03***	U	7.5E-02	7.5E-02	1.26E-01	pCi/g		*0.03*	3/21/11 05:30 p		382.0	GER10$1
								0.09			g	
BA-133	***2.53E-02***	U	2.4E-02	2.4E-02	3.56E-02	pCi/g		*0.71*	3/21/11 05:30 p		382.0	GER10$1
								(2.1)			g	
CO-60	***-1.56E-04***	U	1.5E-02	1.5E-02	2.69E-02	pCi/g		*-0.01*	3/21/11 05:30 p		382.0	GER10$1
							5.00E-02	*-0.02*			g	
CS-137	***6.79E-02***		2.7E-02	2.7E-02	2.85E-02	pCi/g		*(2.4)*	3/21/11 05:30 p		382.0	GER10$1
							1.00E-01	*(5.1)*			g	
EU-152	***-7.60E-03***	U	6.1E-02	6.1E-02	7.43E-02	pCi/g		*-0.1*	3/21/11 05:30 p		382.0	GER10$1
							1.00E-01	*-0.25*			g	
EU-154	***-1.87E-03***	U	5.0E-02	5.0E-02	8.70E-02	pCi/g		*-0.02*	3/21/11 05:30 p		382.0	GER10$1
							1.00E-01	*-0.07*			g	
EU-155	***3.87E-02***	U	5.7E-02	5.7E-02	9.64E-02	pCi/g		*0.4*	3/21/11 05:30 p		382.0	GER10$1
							1.00E-01	*(1.4)*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:**	MFTW21AF		**Report DB ID:**	9MFTW210				
PU-238	***3.24E-02***	U	6.8E-02	6.9E-02	1.28E-01	pCi/g	92%	*0.25*	3/23/11 07:30 p		1.01	ALP40
						1.78E-02	1.00E+00	*0.94*			g	
PU239/40	***6.66E-02***	U	9.7E-02	9.8E-02	1.28E-01	pCi/g	92%	*0.52*	3/23/11 07:30 p		1.01	ALP40
						1.78E-02	1.00E+00	*(1.4)*			g	

TestAmerica
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V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 9:45:00 AM
Lot-Sample No.:	J1C170613-8	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM3	COC No. :	RC-107-063	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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTW21AC			**Report DB ID:** 9MFTW210					
U-234	***7.57E-02***	U	9.7E-02	9.9E-02	1.47E-01	pCi/g	83%	*0.51*	3/24/11 07:51 a		1.04	ALP4
						3.57E-02	1.00E+00	*(1.5)*			g	
U-235	***-5.60E-03***	U	5.6E-02	5.6E-02	1.34E-01	pCi/g	83%	*-0.04*	3/24/11 07:51 a		1.04	ALP4
						2.92E-02	1.00E+00	*-0.2*			g	
U-238	***1.30E-01***	U	1.3E-01	1.3E-01	1.53E-01	pCi/g	83%	*0.85*	3/24/11 07:51 a		1.04	ALP4
						3.86E-02	1.00E+00	*(2.)*			g	
							Ratio U-234/238 = 0.6					
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTW21AK			**Report DB ID:** 9MFTW210					
C-14	***2.98E-01***	U	2.0E-01	2.2E-01	4.50E-01	pCi/g	100%	*0.66*	3/22/11 08:57 p		5.034	LSC3
						2.12E-01	5.00E+01	*(2.8)*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTW21AH			**Report DB ID:** 9MFTW210					
H-3	***1.67E-02***	U	1.1E-02	1.1E-02	2.37E-02	pCi/g	100%	*0.71*	3/24/11 09:08 a		92.9	LSC3
						1.13E-02	4.00E+02	*(3.)*			g	
Batch: 1077140	NI63_LSC			**Work Order:** MFTW21AE			**Report DB ID:** 9MFTW210					
NI-63	***-1.96E+00***	U	5.3E+00	6.1E+00	1.35E+01	pCi/g	99%	*-0.15*	3/25/11 06:14 a		0.24	LSC3
						6.30E+00	3.00E+01	*-0.64*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTW21AG			**Report DB ID:** 9MFTW210					
TC-99	***4.39E-01***	U	2.8E-01	3.9E-01	6.50E-01	pCi/g	100%	*0.67*	3/24/11 08:33 a		1.97	LSC6
						3.12E-01	1.50E+01	*(2.2)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFTW21AD			**Report DB ID:** 9MFTW210					

TestAmerica
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V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:45:00 AM
Lot-Sample No.:	J1C170613-8	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM3	**COC No. :**	RC-107-063	**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
STRONTIUM	***3.45E-02***	U	7.6E-02	7.6E-02	1.70E-01	pCi/g	63%	*0.2*	3/25/11 06:43 a		6.01	GPC28C
						7.93E-02		*0.91*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW21AA		**Report DB ID:**	9MFTW210				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 10:10:00 AM
Lot-Sample No.:	J1C170613-9	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM4	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:** MFTW31AJ			**Report DB ID:** 9MFTW310					
AG-108M	***-8.39E-03***	U	1.4E-02	1.4E-02	2.28E-02	pCi/g		*-0.37*	3/21/11 05:31 p		380.4	GER15$1
								-(1.2)			g	
AMERICIUM 241	***-6.84E-04***	U	3.1E-02	3.1E-02	5.31E-02	pCi/g		*-0.01*	3/21/11 05:31 p		380.4	GER15$1
								-0.04			g	
BA-133	***-3.88E-03***	U	2.4E-02	2.4E-02	3.45E-02	pCi/g		*-0.11*	3/21/11 05:31 p		380.4	GER15$1
								-0.33			g	
CO-60	***-3.86E-03***	U	1.7E-02	1.7E-02	3.01E-02	pCi/g		*-0.13*	3/21/11 05:31 p		380.4	GER15$1
							5.00E-02	*-0.45*			g	
CS-137	***-5.11E-03***	U	1.6E-02	1.6E-02	2.79E-02	pCi/g		*-0.18*	3/21/11 05:31 p		380.4	GER15$1
							1.00E-01	*-0.63*			g	
EU-152	***1.26E-02***	U	4.3E-02	4.3E-02	7.69E-02	pCi/g		*0.16*	3/21/11 05:31 p		380.4	GER15$1
							1.00E-01	*0.58*			g	
EU-154	***1.08E-02***	U	5.5E-02	5.5E-02	9.90E-02	pCi/g		*0.11*	3/21/11 05:31 p		380.4	GER15$1
							1.00E-01	*0.39*			g	
EU-155	***3.32E-02***	U	4.4E-02	4.4E-02	7.51E-02	pCi/g		*0.44*	3/21/11 05:31 p		380.4	GER15$1
							1.00E-01	*(1.5)*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:** MFTW31AF			**Report DB ID:** 9MFTW310					
PU-238	***-4.71E-03***	U	6.3E-02	6.3E-02	1.41E-01	pCi/g	87%	*-0.03*	3/23/11 07:30 p		1.01	ALP41
						2.83E-02	1.00E+00	*-0.15*			g	
PU239/40	***2.82E-02***	U	6.3E-02	6.3E-02	1.31E-01	pCi/g	87%	*0.22*	3/23/11 07:30 p		1.01	ALP41
						2.31E-02	1.00E+00	*0.89*			g	

TestAmerica
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V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 10:10:00 AM
Lot-Sample No.:	J1C170613-9	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM4	COC No. :	RC-107-063	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: 1077132	UISO_IE_PLATE_AEA			Work Order:	MFTW31AC		Report DB ID:	9MFTW310				
U-234	***2.07E-01***		1.5E-01	1.6E-01	1.19E-01	pCi/g	80%	*(1.7)*	3/24/11 07:51 a		1.07	ALP9
						2.38E-02	1.00E+00	*(2.7)*			g	
U-235	***0.00E+00***	U	0.0E+00	5.3E-02	9.88E-02	pCi/g	80%	*0.*	3/24/11 07:51 a		1.07	ALP9
						1.37E-02	1.00E+00	*0.*			g	
U-238	***1.83E-01***		1.4E-01	1.4E-01	9.88E-02	pCi/g	80%	*(1.9)*	3/24/11 07:51 a		1.07	ALP9
						1.37E-02	1.00E+00	*(2.5)*			g	
							Ratio U-234/238 = 1.1					
Batch: 1077135	C14_CHEM_LSC			Work Order:	MFTW31AK		Report DB ID:	9MFTW310				
C-14	***2.47E-01***	U	1.9E-01	2.1E-01	4.49E-01	pCi/g	100%	*0.55*	3/22/11 09:20 p		5.041	LSC3
						2.11E-01	5.00E+01	*(2.3)*			g	
Batch: 1077137	906.0_H3_LSC			Work Order:	MFTW31AH		Report DB ID:	9MFTW310				
H-3	***3.00E-03***	U	1.0E-02	1.1E-02	2.41E-02	pCi/g	100%	*0.12*	3/24/11 10:31 a		111.4	LSC3
						1.15E-02	4.00E+02	*0.55*			g	
Batch: 1077140	NI63_LSC			Work Order:	MFTW31AE		Report DB ID:	9MFTW310				
NI-63	***3.29E-01***	U	5.7E+00	6.6E+00	1.40E+01	pCi/g	95%	*0.02*	3/25/11 06:37 a		0.24	LSC3
						6.56E+00	3.00E+01	*0.1*			g	
Batch: 1077142	TC99_ETVDSK_LSC			Work Order:	MFTW31AG		Report DB ID:	9MFTW310				
TC-99	***4.85E-01***	U	2.7E-01	3.8E-01	6.15E-01	pCi/g	100%	*0.79*	3/24/11 09:36 a		2.06	LSC6
						2.95E-01	1.50E+01	*(2.6)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			Work Order:	MFTW31AD		Report DB ID:	9MFTW310				

TestAmerica
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V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	**TestAmerica**	**SDG:**	JP0127	**Collection Date:**	3/17/2011 10:10:00 AM
Lot-Sample No.:	**J1C170613-9**	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	**J1FKM4**	**COC No. :**	RC-107-063	**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
STRONTIUM	***3.96E-02***	U	7.7E-02	7.8E-02	1.73E-01	pCi/g	64%	*0.23*	3/25/11 06:43 a		5.99	GPC28D
						8.06E-02		*(1.)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW31AA		**Report DB ID:**	9MFTW310				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 10:05:00 AM
Lot-Sample No.:	J1C170613-10	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM5	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:**	MFTW41AJ		**Report DB ID:**	9MFTW410				
AG-108M	***-7.74E-04***	U	1.7E-02	1.7E-02	2.80E-02	pCi/g		*-0.03*	3/21/11 10:30 p		323.9	GER10$1
								-0.09			g	
AMERICIUM 241	***-1.78E-02***	U	9.0E-02	9.0E-02	1.52E-01	pCi/g		*-0.12*	3/21/11 10:30 p		323.9	GER10$1
								-0.39			g	
BA-133	***1.69E-03***	U	2.7E-02	2.7E-02	3.88E-02	pCi/g		*0.04*	3/21/11 10:30 p		323.9	GER10$1
								0.12			g	
CO-60	***-7.77E-03***	U	1.8E-02	1.8E-02	3.09E-02	pCi/g		*-0.25*	3/21/11 10:30 p		323.9	GER10$1
							5.00E-02	*-0.85*			g	
CS-137	***-1.67E-02***	U	2.0E-02	2.0E-02	3.22E-02	pCi/g		*-0.52*	3/21/11 10:30 p		323.9	GER10$1
							1.00E-01	*-(1.7)*			g	
EU-152	***-9.23E-02***	U	9.2E-02	9.2E-02	8.31E-02	pCi/g		*-(1.1)*	3/21/11 10:30 p		323.9	GER10$1
							1.00E-01	*-(2.)*			g	
EU-154	***-7.61E-02***	U	6.0E-02	6.0E-02	9.27E-02	pCi/g		*-0.82*	3/21/11 10:30 p		323.9	GER10$1
							1.00E-01	*-(2.5)*			g	
EU-155	***7.94E-03***	U	6.6E-02	6.6E-02	1.11E-01	pCi/g		*0.07*	3/21/11 10:30 p		323.9	GER10$1
							1.00E-01	*0.24*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:**	MFTW41AF		**Report DB ID:**	9MFTW410				
PU-238	***-1.79E-03***	U	7.1E-02	7.1E-02	1.33E-01	pCi/g	90%	*-0.01*	3/23/11 07:31 p		1.03	ALP42
						1.85E-02	1.00E+00	*-0.05*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.1E-02	1.33E-01	pCi/g	90%	*0.*	3/23/11 07:31 p		1.03	ALP42
						1.85E-02	1.00E+00	*0.*			g	

TestAmerica
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V5.2.12 A2002

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 10:05:00 AM
Lot-Sample No.:	J1C170613-10	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM5	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTW41AC			**Report DB ID:** 9MFTW410					
U-234	***4.53E-01***		2.1E-01	2.3E-01	1.06E-01	pCi/g	84%	*(4.3)*	3/24/11 07:51 a		1.04	ALP11
						1.86E-02	1.00E+00	*(3.9)*			g	
U-235	***4.94E-02***	U	7.2E-02	7.2E-02	9.50E-02	pCi/g	84%	*0.52*	3/24/11 07:51 a		1.04	ALP11
						1.32E-02	1.00E+00	*(1.4)*			g	
U-238	***2.24E-01***		1.5E-01	1.6E-01	1.14E-01	pCi/g	84%	*(2.)*	3/24/11 07:51 a		1.04	ALP11
						2.28E-02	1.00E+00	*(2.8)*			g	
							Ratio U-234/238 = 2.0					
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTW41AK			**Report DB ID:** 9MFTW410					
C-14	***1.30E-02***	U	1.8E-01	2.0E-01	4.51E-01	pCi/g	100%	*0.03*	3/22/11 09:43 p		5.017	LSC3
						2.12E-01	5.00E+01	*0.13*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTW41AH			**Report DB ID:** 9MFTW410					
H-3	***6.01E-03***	U	1.4E-02	1.5E-02	3.36E-02	pCi/g	100%	*0.18*	3/24/11 11:55 a		95.5	LSC3
						1.60E-02	4.00E+02	*0.79*			g	
Batch: 1077140	NI63_LSC			**Work Order:** MFTW41AE			**Report DB ID:** 9MFTW410					
NI-63	***-2.08E+00***	U	4.7E+00	5.4E+00	1.19E+01	pCi/g	100%	*-0.18*	3/25/11 07:00 a		0.27	LSC3
						5.56E+00	3.00E+01	*-0.77*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTW41AG			**Report DB ID:** 9MFTW410					
TC-99	***2.37E-01***	U	2.7E-01	3.8E-01	6.45E-01	pCi/g	100%	*0.37*	3/24/11 11:41 a		1.97	LSC6
						3.09E-01	1.50E+01	*(1.3)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFTW41AD			**Report DB ID:** 9MFTW410					

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 10:05:00 AM
Lot-Sample No.:	J1C170613-10	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM5	**COC No. :**	RC-107-063	**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
STRONTIUM	***5.31E-02***	U	7.9E-02	8.0E-02	1.73E-01	pCi/g	61%	*0.31*	3/25/11 07:12 a		6.04	GPC31A
						8.04E-02		*(1.3)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW41AA		**Report DB ID:**	9MFTW410				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
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V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	**TestAmerica**	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:50:00 AM
Lot-Sample No.:	**J1C170613-11**	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	**J1FKM6**	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:** MFTW51AJ			**Report DB ID:** 9MFTW510					
AG-108M	***9.51E-03***	U	1.5E-02	1.5E-02	2.67E-02	pCi/g		*0.36*	3/21/11 10:31 p		386.8	GER7$1
								(1.3)			g	
AMERICIUM 241	***-9.34E-03***	U	6.3E-02	6.3E-02	1.06E-01	pCi/g		*-0.09*	3/21/11 10:31 p		386.8	GER7$1
								-0.3			g	
BA-133	***-8.19E-03***	U	2.4E-02	2.4E-02	3.42E-02	pCi/g		*-0.24*	3/21/11 10:31 p		386.8	GER7$1
								-0.67			g	
CO-60	***-8.23E-03***	U	1.9E-02	1.9E-02	3.23E-02	pCi/g		*-0.25*	3/21/11 10:31 p		386.8	GER7$1
							5.00E-02	*-0.87*			g	
CS-137	***-7.22E-03***	U	1.8E-02	1.8E-02	3.12E-02	pCi/g		*-0.23*	3/21/11 10:31 p		386.8	GER7$1
							1.00E-01	*-0.79*			g	
EU-152	***-1.22E-02***	U	4.8E-02	4.8E-02	8.09E-02	pCi/g		*-0.15*	3/21/11 10:31 p		386.8	GER7$1
							1.00E-01	*-0.5*			g	
EU-154	***4.10E-02***	U	5.8E-02	5.8E-02	1.09E-01	pCi/g		*0.38*	3/21/11 10:31 p		386.8	GER7$1
							1.00E-01	*(1.4)*			g	
EU-155	***-1.52E-03***	U	4.7E-02	4.7E-02	8.07E-02	pCi/g		*-0.02*	3/21/11 10:31 p		386.8	GER7$1
							1.00E-01	*-0.06*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:** MFTW51AF			**Report DB ID:** 9MFTW510					
PU-238	***0.00E+00***	U	0.0E+00	7.7E-02	1.44E-01	pCi/g	71%	*0.*	3/23/11 07:31 p		1.04	ALP43
						2.00E-02	1.00E+00	*0.*			g	
PU239/40	***-3.84E-03***	U	7.7E-02	7.7E-02	1.60E-01	pCi/g	71%	*-0.02*	3/23/11 07:31 p		1.04	ALP43
						2.83E-02	1.00E+00	*-0.1*			g	

TestAmerica
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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:50:00 AM
Lot-Sample No.:	J1C170613-11	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM6	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:**	MFTW51AC		**Report DB ID:** 9MFTW510					
U-234	***1.87E-01***		1.4E-01	1.5E-01	1.00E-01	pCi/g	87%	*(1.9)*	3/24/11 07:51 a		0.99	ALP12
						1.39E-02	1.00E+00	*(2.6)*			g	
U-235	***-1.33E-03***	U	5.4E-02	5.4E-02	1.00E-01	pCi/g	87%	*-0.01*	3/24/11 07:51 a		0.99	ALP12
						1.39E-02	1.00E+00	*-0.05*			g	
U-238	***2.11E-01***		1.5E-01	1.6E-01	1.12E-01	pCi/g	87%	*(1.9)*	3/24/11 07:51 a		0.99	ALP12
						1.96E-02	1.00E+00	*(2.7)*			g	
							Ratio U-234/238 = 0.9					
Batch: 1077135	C14_CHEM_LSC			**Work Order:**	MFTW51AK		**Report DB ID:** 9MFTW510					
C-14	***7.93E-02***	U	1.9E-01	2.0E-01	4.51E-01	pCi/g	100%	*0.18*	3/22/11 10:29 p		5.026	LSC3
						2.12E-01	5.00E+01	*0.77*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:**	MFTW51AH		**Report DB ID:** 9MFTW510					
H-3	***5.56E-03***	U	6.0E-03	6.4E-03	1.40E-02	pCi/g	100%	*0.4*	3/24/11 02:41 p		126.7	LSC3
						6.67E-03	4.00E+02	*(1.7)*			g	
Batch: 1077140	NI63_LSC			**Work Order:**	MFTW51AE		**Report DB ID:** 9MFTW510					
NI-63	***8.88E-01***	U	5.1E+00	6.0E+00	1.26E+01	pCi/g	97%	*0.07*	3/25/11 07:46 a		0.26	LSC3
						5.92E+00	3.00E+01	*0.3*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:**	MFTW51AG		**Report DB ID:** 9MFTW510					
TC-99	***4.27E-01***	U	2.7E-01	3.8E-01	6.33E-01	pCi/g	100%	*0.67*	3/24/11 12:44 p		2.0	LSC6
						3.04E-01	1.50E+01	*(2.2)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MFTW51AD		**Report DB ID:** 9MFTW510					

TestAmerica
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V5.2.12 A2002

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:50:00 AM
Lot-Sample No.:	J1C170613-11	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM6	**COC No. :**	RC-107-063	**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
STRONTIUM	***3.81E-02***	U	7.4E-02	7.5E-02	1.66E-01	pCi/g	60%	*0.23*	3/25/11 07:12 a		6.06	GPC31B
						7.70E-02		*(1.)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW51AA		**Report DB ID:**	9MFTW510				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 10:00:00 AM
Lot-Sample No.:	J1C170613-12	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM7	COC No. :	RC-107-063	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: 1077127	GAMMA_GS			Work Order: MFTW61AJ			Report DB ID: 9MFTW610					
AG-108M	***8.15E-03***	U	1.7E-02	1.7E-02	3.06E-02	pCi/g		*0.27*	3/21/11 10:32 p		376.6	GER14$1
								0.94			g	
AMERICIUM 241	***1.61E-02***	U	3.8E-02	3.8E-02	6.33E-02	pCi/g		*0.25*	3/21/11 10:32 p		376.6	GER14$1
								0.85			g	
BA-133	***-7.95E-03***	U	2.7E-02	2.7E-02	3.77E-02	pCi/g		*-0.21*	3/21/11 10:32 p		376.6	GER14$1
								-0.59			g	
CO-60	***3.16E-03***	U	1.9E-02	1.9E-02	3.40E-02	pCi/g		*0.09*	3/21/11 10:32 p		376.6	GER14$1
							5.00E-02	*0.34*			g	
CS-137	***-1.25E-02***	U	2.1E-02	2.1E-02	3.43E-02	pCi/g		*-0.36*	3/21/11 10:32 p		376.6	GER14$1
							1.00E-01	*-(1.2)*			g	
EU-152	***-1.24E-02***	U	6.4E-02	6.4E-02	9.31E-02	pCi/g		*-0.13*	3/21/11 10:32 p		376.6	GER14$1
							1.00E-01	*-0.39*			g	
EU-154	***2.92E-03***	U	6.3E-02	6.3E-02	1.11E-01	pCi/g		*0.03*	3/21/11 10:32 p		376.6	GER14$1
							1.00E-01	*0.09*			g	
EU-155	***2.84E-02***	U	5.3E-02	5.3E-02	9.15E-02	pCi/g		*0.31*	3/21/11 10:32 p		376.6	GER14$1
							1.00E-01	*(1.1)*			g	
Batch: 1077129	PUISO_PLATE_AEA			Work Order: MFTW61AF			Report DB ID: 9MFTW610					
PU-238	***0.00E+00***	U	0.0E+00	7.5E-02	1.40E-01	pCi/g	83%	*0.*	3/23/11 07:31 p		1.08	ALP44
						1.95E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.5E-02	1.40E-01	pCi/g	83%	*0.*	3/23/11 07:31 p		1.08	ALP44
						1.95E-02	1.00E+00	*0.*			g	

TestAmerica
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V5.2.12 A2002

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 10:00:00 AM
Lot-Sample No.:	J1C170613-12	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM7	COC No. :	RC-107-063	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: 1077132	UISO_IE_PLATE_AEA			Work Order:	MFTW61AC		Report DB ID: 9MFTW610					
U-234	***1.41E-01***		1.2E-01	1.2E-01	1.11E-01	pCi/g	92%	*(1.3)*	3/24/11 07:51 a		1.08	ALP71
						2.25E-02	1.00E+00	*(2.3)*			g	
U-235	***-1.45E-03***	U	4.8E-02	4.8E-02	9.31E-02	pCi/g	92%	*-0.02*	3/24/11 07:51 a		1.08	ALP71
						1.38E-02	1.00E+00	*-0.06*			g	
U-238	***7.11E-02***	U	8.4E-02	8.5E-02	9.31E-02	pCi/g	92%	*0.76*	3/24/11 07:51 a		1.08	ALP71
						1.38E-02	1.00E+00	*(1.7)*			g	
							Ratio U-234/238 = 2.0					
Batch: 1077135	C14_CHEM_LSC			Work Order:	MFTW61AK		Report DB ID: 9MFTW610					
C-14	***2.41E-02***	U	1.8E-01	2.0E-01	4.50E-01	pCi/g	100%	*0.05*	3/22/11 10:52 p		5.037	LSC3
						2.12E-01	5.00E+01	*0.24*			g	
Batch: 1077137	906.0_H3_LSC			Work Order:	MFTW61AH		Report DB ID: 9MFTW610					
H-3	***6.34E-03***	U	5.5E-03	5.9E-03	1.26E-02	pCi/g	100%	*0.5*	3/24/11 04:04 p		139.4	LSC3
						6.01E-03	4.00E+02	*(2.2)*			g	
Batch: 1077140	NI63_LSC			Work Order:	MFTW61AE		Report DB ID: 9MFTW610					
NI-63	***1.96E+00***	U	5.3E+00	6.1E+00	1.28E+01	pCi/g	96%	*0.15*	3/25/11 08:09 a		0.26	LSC3
						5.99E+00	3.00E+01	*0.64*			g	
Batch: 1077142	TC99_ETVDSK_LSC			Work Order:	MFTW61AG		Report DB ID: 9MFTW610					
TC-99	***5.75E-01***	U	2.7E-01	3.8E-01	6.15E-01	pCi/g	100%	*0.93*	3/24/11 01:47 p		2.07	LSC6
						2.95E-01	1.50E+01	*(3.)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			Work Order:	MFTW61AD		Report DB ID: 9MFTW610					

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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 10:00:00 AM
Lot-Sample No.:	J1C170613-12	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM7	**COC No. :**	RC-107-063	**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
STRONTIUM	***1.10E-01***	U	8.3E-02	8.7E-02	1.67E-01	pCi/g	62%	*0.66*	3/25/11 07:12 a		6.02	GPC31D
						7.75E-02		*(2.5)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW61AA		**Report DB ID:**	9MFTW610				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **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: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:55:00 AM
Lot-Sample No.:	J1C170613-13	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM8	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:** MFTW71AJ			**Report DB ID:** 9MFTW710					
AG-108M	***-1.41E-03***	U	9.8E-03	9.8E-03	1.69E-02	pCi/g		*-0.08*	3/21/11 10:33 p		371.6	GER11$1
								-0.29			g	
AMERICIUM 241	***-5.46E-02***	U	8.9E-02	8.9E-02	1.43E-01	pCi/g		*-0.38*	3/21/11 10:33 p		371.6	GER11$1
								-(1.2)			g	
BA-133	***1.04E-02***	U	1.6E-02	1.6E-02	2.42E-02	pCi/g		*0.43*	3/21/11 10:33 p		371.6	GER11$1
								(1.3)			g	
CO-60	***-1.23E-02***	U	1.4E-02	1.4E-02	2.32E-02	pCi/g		*-0.53*	3/21/11 10:33 p		371.6	GER11$1
							5.00E-02	*-(1.7)*			g	
CS-137	***1.67E-02***	U	1.3E-02	1.3E-02	2.48E-02	pCi/g		*0.67*	3/21/11 10:33 p		371.6	GER11$1
							1.00E-01	*(2.5)*			g	
EU-152	***-3.41E-02***	U	3.3E-02	3.3E-02	5.32E-02	pCi/g		*-0.64*	3/21/11 10:33 p		371.6	GER11$1
							1.00E-01	*-(2.)*			g	
EU-154	***-5.77E-03***	U	4.5E-02	4.5E-02	7.88E-02	pCi/g		*-0.07*	3/21/11 10:33 p		371.6	GER11$1
							1.00E-01	*-0.26*			g	
EU-155	***4.95E-02***	U	3.8E-02	3.8E-02	6.75E-02	pCi/g		*0.73*	3/21/11 10:33 p		371.6	GER11$1
							1.00E-01	*(2.6)*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:** MFTW71AF			**Report DB ID:** 9MFTW710					
PU-238	***-1.70E-03***	U	6.8E-02	6.8E-02	1.27E-01	pCi/g	100%	*-0.01*	3/23/11 07:31 p		0.98	ALP46
						1.77E-02	1.00E+00	*-0.05*			g	
PU239/40	***-3.40E-03***	U	6.8E-02	6.8E-02	1.42E-01	pCi/g	100%	*-0.02*	3/23/11 07:31 p		0.98	ALP46
						2.50E-02	1.00E+00	*-0.1*			g	

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

FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:55:00 AM
Lot-Sample No.:	J1C170613-13	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM8	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTW71AC			**Report DB ID:** 9MFTW710					
U-234	***7.17E-02***	U	1.1E-01	1.1E-01	1.78E-01	pCi/g	67%	*0.4*	3/24/11 07:51 a		1.07	ALP84
						3.63E-02	1.00E+00	*(1.3)*			g	
U-235	***7.56E-02***	U	1.1E-01	1.1E-01	1.50E-01	pCi/g	67%	*0.5*	3/24/11 07:51 a		1.07	ALP84
						2.22E-02	1.00E+00	*(1.4)*			g	
U-238	***1.89E-01***		1.7E-01	1.8E-01	1.73E-01	pCi/g	67%	*(1.1)*	3/24/11 07:51 a		1.07	ALP84
						3.40E-02	1.00E+00	*(2.1)*			g	
							Ratio U-234/238 = 0.4					
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTW71AK			**Report DB ID:** 9MFTW710					
C-14	***8.21E-02***	U	1.9E-01	2.1E-01	4.52E-01	pCi/g	100%	*0.18*	3/22/11 11:14 p		5.015	LSC3
						2.13E-01	5.00E+01	*0.8*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTW71AH			**Report DB ID:** 9MFTW710					
H-3	***6.31E-03***	U	8.9E-03	9.5E-03	2.06E-02	pCi/g	100%	*0.31*	3/24/11 05:27 p		104.1	LSC3
						9.82E-03	4.00E+02	*(1.3)*			g	
Batch: 1077140	NI63_LSC			**Work Order:** MFTW71AE			**Report DB ID:** 9MFTW710					
NI-63	***3.14E+00***	U	5.7E+00	6.6E+00	1.38E+01	pCi/g	93%	*0.23*	3/25/11 08:31 a		0.25	LSC3
						6.46E+00	3.00E+01	*0.95*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTW71AG			**Report DB ID:** 9MFTW710					
TC-99	***8.09E-01***		2.9E-01	4.1E-01	6.56E-01	pCi/g	100%	*(1.2)*	3/24/11 02:49 p		2.02	LSC6
						3.15E-01	1.50E+01	*(4.)*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFTW71AD			**Report DB ID:** 9MFTW710					

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 9:55:00 AM
Lot-Sample No.:	J1C170613-13	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM8	**COC No. :**	RC-107-063	**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
STRONTIUM	***8.84E-02***	U	8.2E-02	8.5E-02	1.72E-01	pCi/g	61%	*0.51*	3/25/11 07:12 a		6.05	GPC32A
						7.99E-02		*(2.1)*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW71AA		**Report DB ID:**	9MFTW710				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:50:00 AM
Lot-Sample No.:	J1C170613-14	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM9	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:** MFTW81AJ			**Report DB ID:** 9MFTW810					
AG-108M	***1.14E-02***	U	2.5E-02	2.5E-02	4.61E-02	pCi/g		*0.25*	3/21/11 10:35 p		73.9	GER15$1
								0.9			g	
AMERICIUM 241	***-2.17E-02***	U	3.6E-02	3.6E-02	6.00E-02	pCi/g		*-0.36*	3/21/11 10:35 p		73.9	GER15$1
								-(1.2)			g	
BA-133	***7.58E-03***	U	3.9E-02	3.9E-02	6.01E-02	pCi/g		*0.13*	3/21/11 10:35 p		73.9	GER15$1
								0.39			g	
CO-60	***3.54E-03***	U	3.9E-02	3.9E-02	7.33E-02	pCi/g		*0.05*	3/21/11 10:35 p		73.9	GER15$1
							5.00E-02	*0.18*			g	
CS-137	***3.26E-02***	U	3.1E-02	3.1E-02	6.08E-02	pCi/g		*0.54*	3/21/11 10:35 p		73.9	GER15$1
							1.00E-01	*(2.1)*			g	
EU-152	***3.15E-02***	U	7.8E-02	7.8E-02	1.42E-01	pCi/g		*0.22*	3/21/11 10:35 p		73.9	GER15$1
							1.00E-01	*0.8*			g	
EU-154	***4.30E-02***	U	1.1E-01	1.1E-01	2.16E-01	pCi/g		*0.2*	3/21/11 10:35 p		73.9	GER15$1
							1.00E-01	*0.75*			g	
EU-155	***5.03E-02***	U	5.4E-02	5.4E-02	9.70E-02	pCi/g		*0.52*	3/21/11 10:35 p		73.9	GER15$1
							1.00E-01	*(1.9)*			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:** MFTW81AF			**Report DB ID:** 9MFTW810					
PU-238	***2.84E-02***	U	5.7E-02	5.7E-02	1.07E-01	pCi/g	96%	*0.27*	3/23/11 07:55 p		1.06	ALP121
						1.48E-02	1.00E+00	*0.99*			g	
PU239/40	***0.00E+00***	U	0.0E+00	5.7E-02	1.07E-01	pCi/g	96%	*0.*	3/23/11 07:55 p		1.06	ALP121
						1.48E-02	1.00E+00	*0.*			g	

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FORM I

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:50:00 AM
Lot-Sample No.:	J1C170613-14	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM9	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTW81AC			**Report DB ID:** 9MFTW810					
U-234	***5.80E-02***	U	8.1E-02	8.2E-02	1.39E-01	pCi/g	114%	*0.42*	3/24/11 08:59 a		1.05	ALP3
						3.82E-02	1.00E+00	*(1.4)*			g	
U-235	***1.62E-02***	U	4.7E-02	4.7E-02	1.22E-01	pCi/g	114%	*0.13*	3/24/11 08:59 a		1.05	ALP3
						2.96E-02	1.00E+00	*0.69*			g	
U-238	***2.36E-01***		1.5E-01	1.6E-01	1.63E-01	pCi/g	114%	*(1.5)*	3/24/11 08:59 a		1.05	ALP3
						4.98E-02	1.00E+00	*(2.9)*			g	
							Ratio U-234/238 = 0.2					
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTW81AK			**Report DB ID:** 9MFTW810					
C-14	***1.01E-01***	U	1.9E-01	2.1E-01	4.49E-01	pCi/g	100%	*0.22*	3/22/11 11:37 p		5.037	LSC3
						2.12E-01	5.00E+01	*0.98*			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTW81AH			**Report DB ID:** 9MFTW810					
H-3	***-2.06E-03***	U	6.6E-03	7.0E-03	1.61E-02	pCi/g	100%	*-0.13*	3/24/11 06:50 p		110.9	LSC3
						7.64E-03	4.00E+02	*-0.59*			g	
Batch: 1077140	NI63_LSC			**Work Order:** MFTW81AE			**Report DB ID:** 9MFTW810					
NI-63	***1.71E+00***	U	5.6E+00	6.4E+00	1.36E+01	pCi/g	98%	*0.13*	3/25/11 08:54 a		0.24	LSC3
						6.35E+00	3.00E+01	*0.53*			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTW81AG			**Report DB ID:** 9MFTW810					
TC-99	***1.77E-01***	U	2.6E-01	3.6E-01	6.26E-01	pCi/g	100%	*0.28*	3/24/11 03:52 p		2.03	LSC6
						3.00E-01	1.50E+01	*0.98*			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:** MFTW81AD			**Report DB ID:** 9MFTW810					

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V5.2.12 A2002

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

SAMPLE RESULTS

Date: 28-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:50:00 AM
Lot-Sample No.:	J1C170613-14	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM9	**COC No. :**	RC-107-063	**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
STRONTIUM	***2.51E-02***	U	7.5E-02	7.5E-02	1.70E-01	pCi/g	63%	*0.15*	3/25/11 07:12 a		6.03	GPC32B
						7.94E-02		*0.67*			g	
Batch: 1080215	7196_CR6			**Work Order:**	MFTW81AA		**Report DB ID:**	9MFTW810				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/24/11 09:00 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 19 **Comments:**

TestAmerica
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V5.2.12 A2002

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

Date: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 8:10:00 AM
Lot-Sample No.:	J1C170613-1	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL6	COC No. :	RC-107-063	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: 1080215	7196_CR6			Work Order:	MFTWD1AQ		Report DB ID:	MFTWD1ER	Orig Sa DB ID:	9MFTWD10		
HEXCHROME	2.76E-01			0.0E+00	1.55E-01	mg/kg	N/A	(1.8)	3/24/11 09:00 a		2.5	
	1.84E-01		RPD	40.0		3.50E-01		N/A			g	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.

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

Date: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:10:00 AM
Lot-Sample No.:	**J1C170613-1**	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	**J1FKL6 DUP**	**COC No. :**	RC-107-063	**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: 1077127	GAMMA_GS			**Work Order:** MFTWD1AL		**Report DB ID:** MFTWD1LR			**Orig Sa DB ID:** 9MFTWD10			
AG-108M	-1.11E-02	U	1.7E-02	1.7E-02	2.81E-02	pCi/g		-0.39	3/21/11 05:27 p		371.4	GER14$1
	-4.34E-03	U	**RPD**	**-87.4**				-(1.3)			g	
AMERICIUM 241	-4.23E-02	U	3.9E-02	3.9E-02	6.21E-02	pCi/g		-0.68	3/21/11 05:27 p		371.4	GER14$1
	9.32E-03	U	**RPD**	**-313.1**				-(2.2)			g	
BA-133	-4.73E-03	U	2.8E-02	2.8E-02	3.95E-02	pCi/g		-0.12	3/21/11 05:27 p		371.4	GER14$1
	1.44E-02	U	**RPD**	**395.1**				-0.34			g	
CO-60	5.99E-03	U	2.2E-02	2.2E-02	3.93E-02	pCi/g		0.15	3/21/11 05:27 p		371.4	GER14$1
	1.83E-02	U	**RPD**	**101.2**		5.00E-02		0.55			g	
CS-137	5.09E-03	U	2.0E-02	2.0E-02	3.44E-02	pCi/g		0.15	3/21/11 05:27 p		371.4	GER14$1
	-4.78E-03	U	**RPD**	**6377.8**		1.00E-01		0.52			g	
EU-152	-1.24E-02	U	6.5E-02	6.5E-02	9.72E-02	pCi/g		-0.13	3/21/11 05:27 p		371.4	GER14$1
	4.32E-02	U	**RPD**	**361.4**		1.00E-01		-0.38			g	
EU-154	-3.98E-02	U	6.9E-02	6.9E-02	1.15E-01	pCi/g		-0.35	3/21/11 05:27 p		371.4	GER14$1
	-3.53E-02	U	**RPD**	**-11.8**		1.00E-01		-(1.2)			g	
EU-155	4.02E-02	U	5.4E-02	5.4E-02	9.41E-02	pCi/g		0.43	3/21/11 05:27 p		371.4	GER14$1
	8.20E-02	U	**RPD**	**68.5**		1.00E-01		(1.5)			g	
Batch: 1077135	C14_CHEM_LSC			**Work Order:** MFTWD1AM		**Report DB ID:** MFTWD1MR			**Orig Sa DB ID:** 9MFTWD10			
C-14	6.36E-01		2.1E-01	2.4E-01	4.49E-01	pCi/g	100%	(1.4)	3/22/11 06:18 p		5.046	LSC3
	-4.86E-02	U	**RPD**	**233.1**		5.00E+01		(5.4)			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:** MFTWD1AN		**Report DB ID:** MFTWD1NR			**Orig Sa DB ID:** 9MFTWD10			

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FORM II

Date: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 8:10:00 AM
Lot-Sample No.:	J1C170613-1	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL6 DUP	COC No. :	RC-107-063	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
H-3	1.23E-02	U	1.1E-02	1.1E-02	2.46E-02	pCi/g	100%	0.5	3/23/11 11:26 p		71.4	LSC3
	1.88E-03	U	RPD 147.0			4.00E+02		(2.1)			g	

No. of Results: 10 Comments:

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

FORM II

Date: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 8:30:00 AM
Lot-Sample No.:	J1C170613-2	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL7 DUP	COC No. :	RC-107-063	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: 1077129	PUISO_PLATE_AEA			Work Order: MFTWL1AL		Report DB ID: MFTWL1LR			Orig Sa DB ID: 9MFTWL10			
PU-238	3.29E-02	U	6.9E-02	7.0E-02	1.30E-01	pCi/g	84%	0.25	3/23/11 04:53 p		0.98	ALP125
	0.00E+00	U	RPD	200.0		1.00E+00		0.94			g	
PU239/40	-1.73E-03	U	6.9E-02	6.9E-02	1.30E-01	pCi/g	84%	-0.01	3/23/11 04:53 p		0.98	ALP125
	-1.76E-03	U	RPD	-1.4		1.00E+00		-0.05			g	

Alpha Spec Result Sum = 3.1E-02

No. of Results: 2 Comments:

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.12 A2002

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

FORM II

Date: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:35:00 AM
Lot-Sample No.:	**J1C170613-3**	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	**J1FKL8 DUP**	**COC No. :**	RC-107-063	**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: 1077132	UISO_IE_PLATE_AEA			**Work Order:** MFTWM1AL		**Report DB ID:** MFTWM1LR			**Orig Sa DB ID:** 9MFTWM10			
U-234	1.09E-01		1.0E-01	1.0E-01	9.32E-02	pCi/g	102%	(1.2)	3/24/11 06:50 a		0.99	ALP11
	4.30E-02	U	**RPD**	**87.0**		1.00E+00		(2.1)			g	
U-235	-1.12E-03	U	4.5E-02	4.5E-02	8.36E-02	pCi/g	102%	-0.01	3/24/11 06:50 a		0.99	ALP11
	0.00E+00	U	**RPD**	**-200.0**		1.00E+00		-0.05			g	
U-238	1.08E-01		1.0E-01	1.0E-01	1.01E-01	pCi/g	102%	(1.1)	3/24/11 06:50 a		0.99	ALP11
	1.15E-01		**RPD**	**6.3**		1.00E+00		(2.1)			g	

Ratio U-234/238 = 1.0 *Alpha Spec Result Sum = 2.2E-01*

No. of Results: 3 **Comments:**

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

FORM II

Date: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 8:40:00 AM
Lot-Sample No.:	J1C170613-4	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKL9 DUP	COC No. :	RC-107-063	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: 1077140	NI63_LSC			Work Order: MFTWQ1AL		Report DB ID: MFTWQ1LR			Orig Sa DB ID: 9MFTWQ10			
NI-63	3.62E+00	U	5.0E+00	5.8E+00	1.20E+01	pCi/g	96%	0.3	3/25/11 04:43 a		0.28	LSC3
	-3.18E-01	U	RPD	238.5		3.00E+01		(1.2)			g	

No. of Results: 1 Comments:

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

FORM II

Date: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0127	**Collection Date:**	3/17/2011 8:50:00 AM
Lot-Sample No.:	J1C170613-5	**Report No. :**	46064	**Received Date:**	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM0 DUP	**COC No. :**	RC-107-063	**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: 1077142	TC99_ETVDSK_LSC			**Work Order:** MFTWX1AM		**Report DB ID:** MFTWX1MR			**Orig Sa DB ID:** 9MFTWX10			
TC-99	4.80E-01	U	2.7E-01	3.8E-01	6.19E-01	pCi/g	100%	0.78	3/24/11 05:25 a		2.05	LSC6
	1.65E-01	U	**RPD**	**97.7**		1.50E+01		(2.5)			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: 28-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0127	Collection Date:	3/17/2011 9:35:00 AM
Lot-Sample No.:	J1C170613-6	Report No. :	46064	Received Date:	3/17/2011 3:20:00 PM
Client Sample ID:	J1FKM1 DUP	COC No. :	RC-107-063	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: 1077144	SRTOT_SEP_PRECIP_GPC			Work Order: MFTW01AL		Report DB ID: MFTW01LR			Orig Sa DB ID: 9MFTW010			
STRONTIUM	1.26E-01	U	9.6E-02	1.0E-01	1.97E-01	pCi/g	55%	0.64	3/25/11 06:43 a		6.07	GPC27C
	8.56E-02	U	RPD	38.0				(2.5)			g	

No. of Results: 1 Comments:

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.12 A2002

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

FORM II

BLANK RESULTS

Date: 28-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0127

Report No. : 46064

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: 1080215	7196_CR6			**Work Order:**	MFXXN1AA		**Report DB ID:**	MFXXN1AA				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/24/11 09:00 a		2.5	
						1.55E-01		N/A			g	
Batch: 1077135	C14_CHEM_LSC			**Work Order:**	MFVAE1AA		**Report DB ID:**	MFVAE1AB				
C-14	2.21E-03	U	4.7E-03	5.2E-03	1.13E-02	pCi/g	100%	0.19	3/23/11 12:00 a		200.0	LSC3
					5.33E-03	5.00E+01		0.86			g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:**	MFT9F1AA		**Report DB ID:**	MFT9F1AB				
PU-238	0.00E+00	U	0.0E+00	6.7E-02	1.26E-01	pCi/g	100%	0.	3/23/11 07:55 p		1.04	ALP123
					1.74E-02	1.00E+00		0.			g	
PU239/40	-1.68E-03	U	6.7E-02	6.7E-02	1.26E-01	pCi/g	100%	-0.01	3/23/11 07:55 p		1.04	ALP123
					1.74E-02	1.00E+00		-0.05			g	
Batch: 1077132	UISO_IE_PLATE_AEA			**Work Order:**	MFT9Q1AA		**Report DB ID:**	MFT9Q1AB				
U-234	1.78E-02	U	5.1E-02	5.2E-02	1.34E-01	pCi/g	97%	0.13	3/24/11 08:59 a		0.97	ALP4
					3.26E-02	1.00E+00		0.69			g	
U-235	-5.13E-03	U	5.1E-02	5.1E-02	1.22E-01	pCi/g	97%	-0.04	3/24/11 08:59 a		0.97	ALP4
					2.66E-02	1.00E+00		-0.2			g	
U-238	-5.13E-03	U	5.1E-02	5.1E-02	1.22E-01	pCi/g	97%	-0.04	3/24/11 08:59 a		0.97	ALP4
					2.66E-02	1.00E+00		-0.2			g	
								Ratio U-234/238 = -3.5				
Batch: 1077140	NI63_LSC			**Work Order:**	MFVA41AA		**Report DB ID:**	MFVA41AB				
NI-63	2.43E-01	U	5.6E+00	6.5E+00	1.38E+01	pCi/g	89%	0.02	3/25/11 09:17 a		0.26	LSC3
					6.47E+00	3.00E+01		0.08			g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:**	MFVA91AA		**Report DB ID:**	MFVA91AB				

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V5.2.12 A2002

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

FORM II

BLANK RESULTS

Date: 28-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0127

Report No. : 46064

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
TC-99	1.19E-01	U	2.6E-01	3.6E-01	6.26E-01	pCi/g	100%	0.19	3/24/11 04:55 p		2.04	LSC6
					3.00E-01	1.50E+01		0.66			g	
Batch: 1077137	906.0_H3_LSC			**Work Order:**	MFVAL1AA		**Report DB ID:**	MFVAL1AB				
H-3	2.29E-02	U	1.8E-02	1.9E-02	4.13E-02	pCi/g	100%	0.55	3/24/11 08:13 p		83.8	LSC3
					1.96E-02	4.00E+02		(2.4)			g	
Batch: 1077127	GAMMA_GS			**Work Order:**	MFT8T1AA		**Report DB ID:**	MFT8T1AB				
AG-108M	-1.27E-03	U	9.0E-03	9.0E-03	1.56E-02	pCi/g		-0.08	3/22/11 02:48 a		348.0	GER10$1
								-0.28			g	
AMERICIUM 241	9.72E-03	U	4.6E-02	4.6E-02	7.93E-02	pCi/g		0.12	3/22/11 02:48 a		348.0	GER10$1
								0.42			g	
BA-133	1.19E-02	U	1.7E-02	1.7E-02	2.63E-02	pCi/g		0.45	3/22/11 02:48 a		348.0	GER10$1
								(1.4)			g	
CO-60	-4.80E-03	U	1.2E-02	1.2E-02	2.09E-02	pCi/g		-0.23	3/22/11 02:48 a		348.0	GER10$1
						5.00E-02		-0.8			g	
CS-137	-2.55E-03	U	1.2E-02	1.2E-02	1.99E-02	pCi/g		-0.13	3/22/11 02:48 a		348.0	GER10$1
						1.00E-01		-0.44			g	
EU-152	-3.59E-03	U	3.5E-02	3.5E-02	5.63E-02	pCi/g		-0.06	3/22/11 02:48 a		348.0	GER10$1
						1.00E-01		-0.21			g	
EU-154	-8.24E-03	U	2.7E-02	2.7E-02	4.72E-02	pCi/g		-0.17	3/22/11 02:48 a		348.0	GER10$1
						1.00E-01		-0.61			g	
EU-155	-2.55E-02	U	3.1E-02	3.1E-02	5.05E-02	pCi/g		-0.5	3/22/11 02:48 a		348.0	GER10$1
						1.00E-01		-(1.6)			g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			**Work Order:**	MFVCE1AA		**Report DB ID:**	MFVCE1AB				

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: 28-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0127

Report No. : 46064

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
STRONTIUM	1.78E-02	U	5.2E-02	5.2E-02	1.19E-01 5.54E-02	pCi/g	94%	0.15 0.68	3/25/11 07:12 a		6.01 g	GPC32C

No. of Results: 19 Comments:

TestAmerica
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V5.2.12 A2002

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

FORM II

LCS RESULTS

Date: 28-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0127

Report No. : 46064

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: 1080215	7196_CR6			**Work Order:**	MFXXN1AC		**Report DB ID:**	MFXXN1AC					
HEXCHROME	1.84E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		92%	3/24/11 09:00 a	2.5	
							Rec Limits:	80	120	-0.1		g	
Batch: 1077135	C14_CHEM_LSC			**Work Order:**	MFVAE1AC		**Report DB ID:**	MFVAE1CS					
C-14	7.00E+00		4.1E-01	5.1E-01	4.54E-01	pCi/g	100%	7.42E+00	1.2E-01	94%	3/23/11 12:23 a	5.0	LSC3
							Rec Limits:	70	130	-0.1		g	
Batch: 1077129	PUISO_PLATE_AEA			**Work Order:**	MFT9F1AC		**Report DB ID:**	MFT9F1CS					
PU239/40	5.78E+00		8.9E-01	1.5E+00	1.29E-01	pCi/g	100%	7.07E+00	2.1E-01	82%	3/23/11 07:56 p	0.97	ALP124
							Rec Limits:	70	130	-0.2		g	
Batch: 1077132	UISO_IE_PLATE_AEA			**Work Order:**	MFT9Q1AC		**Report DB ID:**	MFT9Q1CS					
U-234	2.93E+00		5.3E-01	7.9E-01	1.08E-01	pCi/g	91%	3.15E+00	9.7E-02	93%	3/24/11 08:59 a	1.03	ALP9
							Rec Limits:	70	130	-0.1		g	
U-238	2.98E+00		5.3E-01	8.0E-01	9.01E-02	pCi/g	91%	3.30E+00	1.0E-01	90%	3/24/11 08:59 a	1.03	ALP9
							Rec Limits:	70	130	-0.1		g	
Batch: 1077140	NI63_LSC			**Work Order:**	MFVA41AC		**Report DB ID:**	MFVA41CS					
NI-63	4.44E+02		1.7E+01	4.2E+01	1.21E+01	pCi/g	94%	5.43E+02	9.1E+00	82%	3/25/11 09:40 a	0.28	LSC3
							Rec Limits:	70	130	-0.2		g	
Batch: 1077142	TC99_ETVDSK_LSC			**Work Order:**	MFVA91AC		**Report DB ID:**	MFVA91CS					
TC-99	6.57E+01		1.2E+00	4.7E+00	6.45E-01	pCi/g	100%	7.02E+01	3.1E-01	94%	3/24/11 05:57 p	1.97	LSC6
							Rec Limits:	70	130	-0.1		g	
Batch: 1077137	906.0_H3_LSC			**Work Order:**	MFVAL1AC		**Report DB ID:**	MFVAL1CS					
H-3	2.84E-01		2.7E-02	2.9E-02	4.18E-02	pCi/g	100%	3.25E-01	9.8E-03	87%	3/24/11 09:37 p	84.0	LSC3
							Rec Limits:	70	130	-0.1		g	

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

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V5.2.12 A2002

FORM II

LCS RESULTS

Date: 28-Mar-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0127

Report No. : 46064

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: 1077127	GAMMA_GS			Work Order:	MFT8T1AC		Report DB ID:	MFT8T1CS					
CS-137	1.08E+00		1.5E-01	1.5E-01	3.42E-02	pCi/g		1.09E+00	1.1E-02	100%	3/22/11 06:12 a	350.1	GER10$1
							Rec Limits:	70	130	0.0		g	
Batch: 1077144	SRTOT_SEP_PRECIP_GPC			Work Order:	MFVCE1AC		Report DB ID:	MFVCE1CS					
STRONTIUM	9.37E-01		1.2E-01	2.7E-01	1.33E-01	pCi/g	95%	1.13E+00	3.1E-02	83%	3/25/11 07:12 a	6.04	GPC32D
							Rec Limits:	70	130	-0.2		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: 28-Mar-11

Lab Name: TestAmerica **SDG:** JP0127

Lot-Sample No.: J1C170613-1, J1FKL6 **Report No. :** 46064 **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: 1080215	Work Order:	MFTWD1AP		Report DB ID:	MFTWD1CW		Orig Sa DB ID:	9MFTWD10				
HEXCHROME	9.45E+00			0.0E+00	1.54E-01	mg/kg	N/A	88.96%	1.06E+01	3/24/11 09:00 a	2.5	7196_CR6
	1.84E-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: 28-Mar-11

Lab Name: TestAmerica SDG: JP0127

Lot-Sample No.: J1C170613-5, J1FKM0 Report No. : 46064 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: 1077142	Work Order: MFTWX1AL			Report DB ID: MFTWX1LW			Orig Sa DB ID: 9MFTWX10					
TC-99	1.96E+02		1.9E+00	1.3E+01	6.18E-01	pCi/g	100%	89.85%	2.18E+02	3/24/11 04:22 a	2.07	TC99_ETVDSK_LSC
	1.65E-01								2.2E-01		g	LSC6

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

3/24/2011 12:16:53 PM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077129; RPUISO Pulso by ALP
SDG, Matrix: JP0127; 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 10-17825

First Level Lee Anderson Date 3/21/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1077129

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: Rhonda [illegible] Date: 3/24/11

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17825**
NCM Initiated By: Lisa Antonson
Date Opened: 03/24/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Sep
Tests: Pulso by ALP
Lot #'s (Sample #'s): J1C170613 (1,10,11,12,13,14,2,3,4,5,6,7,8,9),
QC Batches: 1077129,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	03/24/2011	The technician noted a heavy white film in samples after separations. The samples were coprecipitated instead of ED'd at the advice of SW. The samples have good results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	03/24/2011	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: 3/24/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/25/2011 10:40:48 AM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077132; RUISO Ulso by ALP
SDG, Matrix: JP0127; SOIL

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Lisa Anderson Date 3/25/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 107782

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: Rhonda W. [signature] Date: 3/25/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/25/2011 10:47:05 AM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077144; RSRTOT SrTot by GPC
SDG, Matrix: JP0127; 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 Antonson **Date** 3/28/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1077144

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= 1.0pCi/g

Second Level Review: Rhonda [signature] Date: 3/25/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/22/2011 2:19:52 PM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077127; RGAMMA Gamma by GER
SDG, Matrix: JP0127; SOIL

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

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

First Level [signature] **Date** 3/22/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1077127

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

Comments on any "No" response: CRDL = 0.1 pCi/g
See NCM #: 10-17795

Second Level Review: Rhonda [illegible] Date: 3/23/10

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17795**
NCM Initiated By: Steven Wheland
Date Opened: 03/22/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J1C170613 (1,10,11,12,13,14,2,3,4,5,6,7, 8,9),
QC Batches: 1077127,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	03/22/2011	MDA's elevated due to short priority counting times.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	03/22/2011	report datat

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: 3/22/2011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/25/2011 11:18:25 AM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077142; RTC99 Tc-99 by LSC
SDG, Matrix: JP0127; SOIL

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Lisa Anderson **Date** 3/25/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1077142

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 = 15.0 pci/g

Second Level Review: [signature] Date: 3/25/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/25/2011 11:12:37 AM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077137; RTRITIUM H-3 by LSC
SDG, Matrix: JP0127; 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 Ina Iverson Date 3/28/11

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 1077137

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

Comments on any "No" response: CRDL = 10.0 pCi/g

Second Level Review: Rhonda Wyer Date: 5/25/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/23/2011 4:04:07 PM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077135; RC14 C-14 by LSC
SDG, Matrix: JP0127; SOIL

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

First Level [signature] **Date** 3/23/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1077135

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: Rhonda Yeen Date: 3/24/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/28/2011 10:45:55 AM

Lot No., Due Date: J1C170613; 03/24/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1077140; RNI63 Ni-63 by LSC
SDG, Matrix: JP0127; 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** 3/28/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1077140

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=30.0pCi/g

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **1080215**

Lab Sample Numbers or SDG: **JP0127**

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?	✓			✓
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: duplicate not within acceptance criteria possibly due to inhomogeneity of sample.

Analyst: _____ Date: 3-25-11

Second-Level Review: _____ Date: 3/25/11

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17839**
NCM Initiated By: Tim Armstrong
Date Opened: 03/25/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 7196A, C-14 by LSC, Gamma by GER, H-3 by LSC, Ni-63 by LSC, Pulso by ALP, SrTot by GPC, Tc-99 by LSC, Ulso by ALP
Lot #'s (Sample #'s): J1C170613 (1,10,11,12,13,14,2,3,4,5,6,7, 8,9),
QC Batches: 1077127, 1077129, 1077132, 1077135, 1077137, 1077140, 1077142, 1077144, 1080215,

Nonconformance: Dups not within acceptance limits
Subcategory: Inhomogenity of the Sample

Problem Description / Root Cause

Name	Date	Description
Tim Armstrong	03/25/2011	Sample and Duplicate not in agreement

Corrective Action

Name	Date	Corrective Action
Tim Armstrong	03/25/2011	Possibly due to non homogenous sample.

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: 3/25/2011

TestAmerica Laboratories, Inc.

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 1 of 8

Collector: J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B (Ov 3-17-11)	Data Turnaround: ~~21~~ 7 Days (Ov 3-17-11)		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: ~~Government Vehicle/FedEx~~ AF 3-17-11 Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ RAD < DOT Limit (3-17-11)

SOGHJP0127

Lot #J1C170613

Due 3-24-11

Special Handling and/or Storage

Cool 4 Deg C

SAMPLE ANALYSIS													
			Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
			Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
			No. of Container(s)	1	1	1	1	1	1	1	1	0	1
			Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL
				See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14; Tritium - H3 Low Level Soil	See item (3) in Special Instructions.
Sample No.	Matrix *	Sample Date	Sample Time										
~~J1FKL4~~	~~SOIL~~		(Ov 3-16-11)										
~~J1FKL5~~	~~SOIL~~		(Ov 3-16-11)										
J1FKL6	SOIL	3-17-11	0810		X		MFTWD	~~MFTWD~~	CK 3-17-11			X	X
J1FKL7	SOIL	3-17-11	0830		X		MFTWL	~~MFTWL~~	CK 3-17-11			X	X
J1FKL8	SOIL	3-17-11	0835		X		MFTWM	~~MFTWM~~	CK 3-17-11			X	X

OK 3-16-11

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: J Kuepfer	3-17-11 1130	Received By/Stored In: JV Fullmer	1130 3-17-11
Relinquished By/Removed From: JV Fullmer	3-17-11 1240	Received By/Stored In: A. Freier	1240 3-17-11
Relinquished By/Removed From: A. Freier (WCH)	3-17-11 1520	Received By/Stored In: Cameron Kropa (TA)	1520 3-17-11
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

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB
DATE 3-17-11

JP0127

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 1 of 8

Collector: J. Knapfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L, 8B	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: ~~Government Vehicle/FedEx~~ Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS: None RAD <DOT Limit

SDG#JP0127 Lot#J1C170613 Due 3-24-11

Special Handling and/or Storage: Cool 4 Deg C

Preservation	None	None	None	None							
Type of Container	G/P	G/P	G/P	G/P							
No. of Container(s)	0	0	0	0							
Volume	500mL	500mL	500mL	500mL							
SAMPLE ANALYSIS	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 – Total Sr	Technetium-99							

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1FKL4~~	~~SOIL~~		~~QR 3-16-11~~									
~~J1FKL5~~	~~SOIL~~		~~QR 3-16-11~~									
J1FKL6	SOIL	3-17-11	0810	X	X	X	X	~~MFTWO~~	CK 3-17-11			
J1FKL7	SOIL	3-17-11	0830	X	X	X	X	~~MFTWO~~	CK 3-17-11			
J1FKL8	SOIL	3-17-11	0835	X	X	X	X	~~MFTWO~~	CK 3-17-11			

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Knapfer	3-17-11 1130	JV Fullmer	1130 3-17-11
JV Fullmer	3-17-11 1240	A. Freier	1240 3-17-11
A. Freier	3-17-11 1520	Cameron Kroupa	TA 1520 3-17-11
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

REVIEWED BY JEB DATE 3-17-11

JP0127

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 Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 1 of 8

Collector: J Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L 88	Data Turnaround: 21 Days 7		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: AF 3-17-11 ~~Government Vehicle/FedEx~~ Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ RAD LDOT Limit 3-17-11

SDG#JP0127 Lot#J1C170613 Due 3-24-11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	0	1
Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14; Tritium - H3 Low Level Soil	See item (3) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
J1FKL9	SOIL	3-17-11	0840		X				MFTWD	Q	CK	3-17-11	X	X
J1FKM0	SOIL	3-17-11	0850		X				MFTWA	X	CK	3-17-11	X	X
J1FKM1	SOIL	3-17-11	0935		X				MFTWM	O	CK	3-17-11	X	X
J1FKM2	SOIL	3-17-11	0940		X				MFTW1				X	X
J1FKM3	SOIL	3-17-11	0945		X				MFTW2				X	X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3-17-11 1130	JV Fullmer	1130 3-17-11
JV Fullmer	3-17-11 1240	A. Freier	1240 3-17-11
A. Freier (WCH)	3-17-11 1520	Cameron Krouse (TA)	1520 3-17-11

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-17-11

JP0127

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 6 of 8

Collector: J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L 8B	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: ~~Government Vehicle/FedEx~~ Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ RAD <DOT Limit

SDG#JP0127
Lot#JIC70613
Due 3-24-11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	None	None	None							
Type of Container	G/P	G/P	G/P	G/P							
No. of Container(s)	0	0	0	0							
Volume	500mL	500mL	500mL	500mL							
SAMPLE ANALYSIS	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 – Total Sr	Technetium-99							
Sample No. / Matrix * / Sample Date / Sample Time											
J1FKL9 / SOIL / 3-17-11 / 0840	X	X	X	X							
J1FKM0 / SOIL / 3-17-11 / 0850	X	X	X	X							
J1FKM1 / SOIL / 3-17-11 / 0935	X	X	X	X							
J1FKM2 / SOIL / 3-17-11 / 0940	X	X	X	X							
J1FKM3 / SOIL / 3-17-11 / 0945	X	X	X	X							

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Kuepfer	3-17-11 1130	JV Fullmer	3-17-11 1130
JV Fullmer	3-17-11 1240	A. Freier	3-17-11 1240
A. Freier (WCH)	3-17-11 1520	Cameron Krouse (TA)	3-17-11 1520

SPECIAL INSTRUCTIONS

REVIEWED BY JEB DATE 3-17-11

JP0127

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 3 of 8

Collector: J. 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 Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: AF 3-17-11 ~~Government Vehicle/FedEx~~ Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS: ~~None~~ RAD < DOT Limit

SDG #JP0127
Lot#J1C170613
Due 3-24-11

Special Handling and/or Storage: *Cool 4 Deg C*

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	0	1
Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14; Tritium - H3 Low Level Soil	See item (3) in Special Instructions.
Sample No. / Matrix * / Sample Date / Sample Time										
J1FKM4 / SOIL / 3-17-11 / 1010		X				MFTW3			X	X
J1FKM5 / SOIL / 3-17-11 / 1005		X				MFTW4			X	X
J1FKM6 / SOIL / 3-17-11 / 0950		X				MFTW5			X	X
J1FKM7 / SOIL / 3-17-11 / 1000		X				MFTW6			X	X
J1FKM8 / SOIL / 3-17-11 / 0955		X				MFTW7			X	X

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3-17-11 1130	JV Fullmer	1130 3-17-11
JV Fullmer	3-17-11 1240	A. Freier	1240 3-17-11
A. Freier (with)	3-17-11 1520	Cameron Krage (TA)	1520 3-17-11
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

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-17-11

JP0127

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 6 of 8

Collector: J. 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 Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: AF 3-17-11 ~~Government Vehicle/FedEx~~ Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS
~~None~~ RAD LDOT Limit
3-17-11
SDG #JP0127
Lot# J1C70613
Due 3-24-11

Special Handling and/or Storage
Cool 4 Deg C

Preservation	None	None	None	None								
Type of Container	G/P	G/P	G/P	G/P								
No. of Container(s)	0	0	0	0								
Volume	500mL	500mL	500mL	500mL								
SAMPLE ANALYSIS	Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 – Total Sr	Technetium-99								
Sample No. / Matrix * / Sample Date / Sample Time												
J1FKM4 / SOIL / 3-17-11 / 1010	X	X	X	X								
J1FKM5 / SOIL / 3-17-11 / 1005	X	X	X	X								
J1FKM6 / SOIL / 3-17-11 / 0950	X	X	X	X								
J1FKM7 / SOIL / 3-17-11 / 1000	X	X	X	X								
J1FKM8 / SOIL / 3-17-11 / 0955	X	X	X	X								

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3-17-11 1130	JV Fullmer	1130 3-17-11
JV Fullmer	3-17-11 1240	A. Freier	3-17-11 1240
A Freier (WCH)	3-17-11 1520	Cameron Kranz (TA)	3-17-11 1520

SPECIAL INSTRUCTIONS

REVIEWED BY JEB DATE 3-17-11

JP0127

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

OW 3-17-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 4 of 8

Collector: J. Ismeofter	Company Contact: Joan Kessner Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B (OW 3-17-11)
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing	SAF No.: RC-107	Data Turnaround: ~~21~~ 7 Days (OW 3-17-11)
Ice Chest No.: NA	Field Logbook No.: EL 1627-04 COA: R116H52600	Method of Shipment: ~~Government Vehicle/FedEx~~ Hand Deliver (AF 3-17-11)	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ Rad < DOT Limit
AF 3-17-11

SDG #JP0127
Lot #J1C170613
Due 3-24.11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	0	1
Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14; Tritium - H3 Low Level Soil	See item (3) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
J1FKM9	SOIL	3-17-11	0850		X				MFTW8			X	X
~~J1FKN0~~	~~SOIL~~												

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuester	3-17-11 1130	JV Fullmer	3-17-11 1130
JV Fullmer	3-17-11 1240	A. Freier	3-17-11 1240
A. Freier (WCH)	3-17-11 1520	Cameron Kraga (TA)	3-17-11 1520

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.9; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-17-11

JP0127

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 8 of 8
Collector: J. Knepfer	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B (AF 3-17-11)
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing	SAF No.: RC-107	Data Turnaround: ~~21~~ 7 Days (AF 3-17-11)
Ice Chest No.: NA	Field Logbook No.: EL 1627-04; COA: R116H52600	Method of Shipment: ~~Government Vehicle/FedEx~~ Hand Deliver (AF 3-17-11)	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
~~None~~ AF 3-17-11 Rad < DOT Limit
SDG# JP0127
Lot # JIC170413
Due 3-24-11

Special Handling and/or Storage
Cool 4 Deg C

Preservation			None	None	None	None						
Type of Container			G/P	G/P	G/P	G/P						
No. of Container(s)			0	0	0	0						
Volume			500mL	500mL	500mL	500mL						
SAMPLE ANALYSIS			Isotopic Uranium	Isotopic Plutonium	Nickel-63; Strontium-89,90 -- Total Sr	Technetium-99						
Sample No.	Matrix *	Sample Date	Sample Time									
J1FKM9	SOIL	3-17-11	0850	X	X	X	X					
~~J1FKN0~~	~~SOIL~~											

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: [signature]	3-17-11 1135	Received By/Stored In: JV Fullmer [signature]	Date/Time 1130 3-17-11
Relinquished By/Removed From: JV Fullmer [signature]	Date/Time 1240 3-17-11	Received By/Stored In: A. Freier [signature]	Date/Time 1240 3-17-11
Relinquished By/Removed From: WCH A. Freier [signature]	Date/Time 1520 3-17-11	Received By/Stored In: Cameron Kraupe [signature] TA	Date/Time 1520 3-17-11
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

REVIEWED BY JEB
DATE 3-17-11

JP0127

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

Non-Reg

116-H-5 Radionuclide Data Results

Isotope	Carbon-14			Cesium-137			Cobalt-60			Europium-152			Europium-154			Nickel-63			Plutonium-238		
	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA
Maximum value	1.54			0.594			0.145			2.28			0.395			13.2			1.46		

Isotope	Potassium-40			Radium-226			Radium-228			Thorium-228 GEA			Thorium-232 GEA			Total Beta Radiostrontium			Tritium		
	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA
Maximum value	15.7			0.832			1.17			1.04			1.17			2.4			5.9		

Isotope	Uranium-233/234			Uranium-235			Uranium-238		
	pCi/g	Q	MDA	pCi/g	Q	MDA	pCi/g	Q	MDA
Maximum value	1.01			0.136			0.833		

This rad screen covers the following samples:

J1FKK1 through J1FKK9
J1FKL0
J1FKL1 through J1FKL9
J1FKM0 through J1FKM9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

J1C170613

Sample Check-in List

Date/Time Received: 3.17.11 1520 GM Screen Result (out) .2 (in) .8 Initials CK

Client: WCH SDG #: JP0127 NA [ ] SAF #: RC-107 NA [ ]

Work Order Number: J1C170613 Chain of Custody # RC-107-063

Shipping Container ID: hand delivery NA [ ] Air Bill # CK 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): 14 samples @
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   CK tape custody seals (soil) ___ hazard labels
   CK appropriate sample 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 [CK] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

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

See other side for additional comments

Sample Custodian: Cameron J Tyz Date: 3.17.11 1520

Client Informed on ___ by ___ Person contacted ___

[✓] No action necessary; process as is

Project Manager [signature] Date 3/18/11

3/20/2011 11:53:42 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Balance Id:1120373922
Pipet #:

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077129 SOIL pCi/g

PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: SannohS,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MFTWD-1-AF J1C170613-1-SAMP 03/17/2011 08:10		1.01g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	PUTC12070 03/10/11,pd 01/01/10,r	50		Scr:	Alpha:	Beta:
2 MFTWL-1-AF J1C170613-2-SAMP 03/17/2011 08:30		1.01g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	PUTC12071 03/10/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
3 MFTWL-1-AL-X J1C170613-2-DUP 03/17/2011 08:30		0.98g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	PUTC12072 03/10/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
4 MFTWM-1-AF J1C170613-3-SAMP 03/17/2011 08:35		1.02g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	PUTC12073 03/10/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
5 MFTWQ-1-AF J1C170613-4-SAMP 03/17/2011 08:40		0.99g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	PUTC12074 03/10/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
6 MFTWX-1-AF J1C170613-5-SAMP 03/17/2011 08:50		1.00g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	PUTC12075 03/10/11,pd 01/01/10,r			Scr:	Alpha:	Beta:
7 MFTW0-1-AF J1C170613-6-SAMP 03/17/2011 09:35		1.00g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	PUTC12076 03/10/11,pd 01/01/10,r			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/20/2011 11:53:43 AM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/24/2011

Batch: 1077129 SOIL pCi/g
SEQ Batch, Test: None

PM, Quote: RW2, 27038

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFTW1-1-AF J1C170613-7-SAMP 03/17/2011 09:40		0.99g,in AmtRec: 1X60MLG,1X500MLP	PUTC12077 03/10/11,pd 01/01/10,r #Containers: 2	50		Scr:	Alpha:	Beta:
9 MFTW2-1-AF J1C170613-8-SAMP 03/17/2011 09:45		1.01g,in AmtRec: 1X60MLG,1X500MLP	PUTC12078 03/10/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
10 MFTW3-1-AF J1C170613-9-SAMP 03/17/2011 10:10		1.01g,in AmtRec: 1X60MLG,1X500MLP	PUTC12079 03/10/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
11 MFTW4-1-AF J1C170613-10-SAMP 03/17/2011 10:05		1.03g,in AmtRec: 1X60MLG,1X500MLP	PUTC12080 03/10/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
12 MFTW5-1-AF J1C170613-11-SAMP 03/17/2011 09:50		1.04g,in AmtRec: 1X60MLG,1X500MLP	PUTC12081 03/10/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
13 MFTW6-1-AF J1C170613-12-SAMP 03/17/2011 10:00		1.08g,in AmtRec: 1X60MLG,1X500MLP	PUTC12082 03/10/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:
14 MFTW7-1-AF J1C170613-13-SAMP 03/17/2011 09:55		0.98g,in AmtRec: 1X60MLG,1X500MLP	PUTC12083 03/10/11,pd 01/01/10,r #Containers: 2			Scr:	Alpha:	Beta:

3/20/2011 11:53:43 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Balance Id:1120373922
Pipet #:

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077129 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFTW8-1-AF J1C170613-14-SAMP 03/17/2011 08:50		1.06g,in AmtRec: 1X60MLG,1X500MLP	PUTC12084 03/10/11,pd 01/01/10,r #Containers: 2	50		Scr:	Alpha:	Beta:
16 MFT9F-1-AA-B J1C180000-129-BLK 03/18/2011 09:02 pd		1.04g,in AmtRec:	PUTC12085 03/10/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:
17 MFT9F-1-AC-C J1C180000-129-LCS 03/18/2011 09:02 pd		0.97g,in AmtRec:	PUSK0835 03/10/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: MFTWD-SAMP "Comments IVW Recount on a different detector"

Because of heavy white film these samples were coppted (S.Whel AND advise) gh 3/22/11

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

MFTWD1AF-SAMP Constituent List:

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

MFT9F1AA-BLK:

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

MFT9F1AC-LCS:

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

MFTWD1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

MFT9F1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/20/2011 11:53:43 AM

Sample Preparation/Analysis

Balance Id:1120373922

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077129 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

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

MFT9F1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/24/2011 12:15:35 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/24/2010, 3/29/2011, Batch: '1077129', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1077129						
AC		Rev1C	**WoodT**	3/20/2011 11:29:34		
SC			MaucieriS	IsBatched	3/18/2011 9:08:32 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/20/2011 11:29:34 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/21/2011 9:24:05 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep1C	3/21/2011 6:57:56 PM	RL-ALP-001 REVISION 2
SC			HoganS	Sep2C	3/23/2011 3:25:14 PM	RL-ALP-016 REVISION 1
SC			DawkinsO	InCnt1	3/23/2011 3:28:50 PM	RL-CI-008 REVISION 1
SC			BlackCL	CalcC	3/24/2011 8:52:15 AM	RL-CI-008 REVISION 1
SC			antonsonI	Rev1C	3/24/2011 12:11:45 PM	RL-DR-001 Rev 2
AC			**BouslaughP**	3/21/2011 9:24:05		
AC			**JorgensonD**	3/21/2011 6:57:56 PM		
AC			**HoganS**	3/23/2011 3:25:14 PM		
AC			**DawkinsO**	3/23/2011 3:28:50 PM		
AC			**BlackCL**	3/24/2011 8:52:15		
AC			**antonsonI**	3/24/2011 12:11:45		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

3/20/2011 12:43:22 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/24/2011 JP0127

Sep1 DT/Tm Tech:

Batch: 1077132 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: SannohS,WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MFTWD-1-AC J1C170613-1-SAMP 03/17/2011 08:10	1.03g,in	AmtRec: 1X60MLG,1X500MLP	UITC26225 03/17/11,pd 06/15/01,r #Containers: 2	50		Scr:	Alpha:	Beta:
2 MFTWL-1-AC J1C170613-2-SAMP 03/17/2011 08:30	1.04g,in	AmtRec: 1X60MLG,1X500MLP	UITC26226 03/17/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
3 MFTWM-1-AC J1C170613-3-SAMP 03/17/2011 08:35	0.97g,in	AmtRec: 1X60MLG,1X500MLP	UITC26227 03/17/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
4 MFTWM-1-AL-X J1C170613-3-DUP 03/17/2011 08:35	0.99g,in	AmtRec: 1X60MLG,1X500MLP	UITC26228 03/17/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
5 MFTWQ-1-AC J1C170613-4-SAMP 03/17/2011 08:40	0.99g,in	AmtRec: 1X60MLG,1X500MLP	UITC26229 03/17/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
6 MFTWX-1-AC J1C170613-5-SAMP 03/17/2011 08:50	1.05g,in	AmtRec: 1X60MLG,1X500MLP	UITC26230 03/17/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:
7 MFTW0-1-AC J1C170613-6-SAMP 03/17/2011 09:35	1.00g,in	AmtRec: 1X60MLG,1X500MLP	UITC26231 03/17/11,pd 06/15/01,r #Containers: 2			Scr:	Alpha:	Beta:

3/20/2011 12:43:22 PM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077132 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFTW1-1-AC J1C170613-7-SAMP 03/17/2011 09:40	AmtRec: 1X60MLG,1X500MLP	1.01g,in	UITC26232 03/17/11,pd 06/15/01,r	50	#Containers: 2	Scr:	Alpha:	Beta:
9 MFTW2-1-AC J1C170613-8-SAMP 03/17/2011 09:45	AmtRec: 1X60MLG,1X500MLP	1.04g,in	UITC26233 03/17/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
10 MFTW3-1-AC J1C170613-9-SAMP 03/17/2011 10:10	AmtRec: 1X60MLG,1X500MLP	1.07g,in	UITC26234 03/17/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
11 MFTW4-1-AC J1C170613-10-SAMP 03/17/2011 10:05	AmtRec: 1X60MLG,1X500MLP	1.04g,in	UITC26235 03/17/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
12 MFTW5-1-AC J1C170613-11-SAMP 03/17/2011 09:50	AmtRec: 1X60MLG,1X500MLP	0.99g,in	UITC26236 03/17/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
13 MFTW6-1-AC J1C170613-12-SAMP 03/17/2011 10:00	AmtRec: 1X60MLG,1X500MLP	1.08g,in	UITC26237 03/17/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:
14 MFTW7-1-AC J1C170613-13-SAMP 03/17/2011 09:55	AmtRec: 1X60MLG,1X500MLP	1.07g,in	UITC26238 03/17/11,pd 06/15/01,r		#Containers: 2	Scr:	Alpha:	Beta:

3/20/2011 12:43:23 PM

Sample Preparation/Analysis

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

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

PRIORITY

Balance Id:1120373922

Pipet #:

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077132 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFTW8-1-AC J1C170613-14-SAMP 03/17/2011 08:50		1.05g,in AmtRec: 1X60MLG,1X500MLP	UITC26239 03/17/11,pd 06/15/01,r #Containers: 2	50		Scr:	Alpha:	Beta:
16 MFT9Q-1-AA-B J1C180000-132-BLK 03/18/2011 09:02 pd		0.97g,in AmtRec:	UITC26240 03/17/11,pd 06/15/01,r #Containers: 1			Scr:	Alpha:	Beta:
17 MFT9Q-1-AC-C J1C180000-132-LCS 03/18/2011 09:02 pd		1.03g,in AmtRec:	UISH1288 03/03/11,pd 06/15/01,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: MFTWD-SAMP "Comments IVW Recount on a different detector"

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

MFTWD1AC-SAMP Constituent List:

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

MFT9Q1AA-BLK:

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

MFT9Q1AC-LCS:

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

MFTWD1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/20/2011 12:43:23 PM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

PRIORITY

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077132 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

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

```
MFT9Q1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
MFT9Q1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

3/25/2011 10:40:09 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/25/2010, 3/30/2011, Batch: '1077132', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1077132						
AC		**Rev1C**	**WoodT**	3/20/2011 12:26:28		
SC			MaucieriS	IsBatched	3/18/2011 9:08:42 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/20/2011 12:26:28 PM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/21/2011 9:29:00 AM	RL-PRP-003 REVISION 1
SC			HoganH	Sep1C	3/21/2011 4:29:40 PM	ALP-004 REVISION 1
SC			HoganS	Sep2C	3/23/2011 12:31:04 PM	RL-ALP-015 REVISION 1
SC			HoganS	Sep2C	3/23/2011 12:31:04 PM	RL-ALP-015 REVISION 1
SC			BlackCL	InCnt1	3/23/2011 1:08:13 PM	RL-CI-008 REVISION 1
SC			BlackCL	CalcC	3/24/2011 10:38:05 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/25/2011 10:39:46 AM	RL-DR-001 Rev 2
AC			**BouslaughP**	3/21/2011 9:29:00		
AC			**HoganH**	3/21/2011 4:29:40 PM		
AC			**HoganS**	3/23/2011 12:31:04		
AC			**BlackCL**	3/23/2011 1:08:13 PM		
AC			**BlackCL**	3/24/2011 10:38:05		
AC			**antonsonl**	3/25/2011 10:39:46		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.44

3/24/2011 11:33:53 PM

Sample Preparation/Analysis

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

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

Balance Id:1120373922
Pipet #: _____
Sep1 DT/Tm Tech: 21:35 3/24/11 APA
Sep2 DT/Tm Tech:
Prep Tech: SannohS,WoodT

AnalyDueDate: 03/24/2011

Batch: 1077144 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None All Tests: 1077127 AXTA, 1077129 6ASO, 1077132 7SSR, 1077135 5SS3, 1077137 ATS6, 1077140 AFS4, 1077142 ANS5, 1077144 CHTH, 1080215 DWEA,

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 MFTWD-1-AD J1C170613-1-SAMP 03/17/2011 08:10	6.02g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20773 03/16/11	1.5	62.6	50	JLB	07OY	3/25/11	Scr: Alpha: Beta:
2 MFTWL-1-AD J1C170613-2-SAMP 03/17/2011 08:30	6.06g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20774 03/16/11		62.5		JLB			Scr: Alpha: Beta:
3 MFTWM-1-AD J1C170613-3-SAMP 03/17/2011 08:35	6.06g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20775 03/16/11		61.1		JLC			Scr: Alpha: Beta:
4 MFTWQ-1-AD J1C170613-4-SAMP 03/17/2011 08:40	6.03g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20776 03/16/11		63.6		JLD			Scr: Alpha: Beta:
5 MFTWX-1-AD J1C170613-5-SAMP 03/17/2011 08:50	6.00g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20777 03/16/11		59.8		JLA			Scr: Alpha: Beta:
6 MFTW0-1-AD J1C170613-6-SAMP 03/17/2011 09:35	6.04g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20778 03/16/11		59.7		JLB			Scr: Alpha: Beta:
7 MFTW0-1-AL-X J1C170613-6-DUP 03/17/2011 09:35	6.07g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20779 03/16/11		55.2		JLC			Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

3/24/2011 11:33:57 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:1120373922
Pipet #:

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077144 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFTW1-1-AD J1C170613-7-SAMP 03/17/2011 09:40		5.98g,in AmtRec: 1X60MLG,1X500MLP	SRTA20780 03/16/11 #Containers: 2	1.5	62.1	50	27D	0708	3/25/11	Scr: Alpha: Beta:
9 MFTW2-1-AD J1C170613-8-SAMP 03/17/2011 09:45		6.01g,in AmtRec: 1X60MLG,1X500MLP	SRTA20781 03/16/11 #Containers: 2		62.6		28C			Scr: Alpha: Beta:
10 MFTW3-1-AD J1C170613-9-SAMP 03/17/2011 10:10		5.99g,in AmtRec: 1X60MLG,1X500MLP	SRTA20782 03/16/11 #Containers: 2		63.6		28D			Scr: Alpha: Beta:
11 MFTW4-1-AD J1C170613-10-SAMP 03/17/2011 10:05		6.04g,in AmtRec: 1X60MLG,1X500MLP	SRTA20783 03/16/11 #Containers: 2		61.3		30A	0737	3/25/11	Scr: Alpha: Beta:
12 MFTW5-1-AD J1C170613-11-SAMP 03/17/2011 09:50		6.06g,in AmtRec: 1X60MLG,1X500MLP	SRTA20784 03/16/11 #Containers: 2		59.8		31B			Scr: Alpha: Beta:
13 MFTW6-1-AD J1C170613-12-SAMP 03/17/2011 10:00		6.02g,in AmtRec: 1X60MLG,1X500MLP	SRTA20785 03/16/11 #Containers: 2		61.9		31D			Scr: Alpha: Beta:
14 MFTW7-1-AD J1C170613-13-SAMP 03/17/2011 09:55		6.05g,in AmtRec: 1X60MLG,1X500MLP	SRTA20786 03/16/11 #Containers: 2		61.1		32A			Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

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TestAmerica Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2
pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 14
Prep_SamplePrep v4.8.49

3/24/2011 11:33:57 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077144 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFTW8-1-AD J1C170613-14-SAMP 03/17/2011 08:50		6.03g,in AmtRec: 1X60MLG,1X500MLP #Containers: 2	SRTA20787 03/16/11	1.5	63.0	50	32B	0737	3/26/11	
							Scr:	Alpha:		Beta:
16 MFVCE-1-AA-B J1C180000-144-BLK 03/18/2011 09:02 pd		6.01g,in AmtRec: #Containers: 1	SRTA20788 03/16/11		93.9		32C			
							Scr:	Alpha:		Beta:
17 MFVCE-1-AC-C J1C180000-144-LCS 03/18/2011 09:02 pd		6.04g,in AmtRec: #Containers: 1	STSB1577 03/10/11		94.6		32D			
							Scr:	Alpha:		Beta:

Comments: MFTWD-SAMP "Comments IVW Recount on a different detector"

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

MFTWD1AD-SAMP Constituent List:
  Sr-90       RDL:1          pCi/g     LCL:70      UCL:130     RPD:35
MFVCE1AA-BLK:
  Sr-90       RDL:1          pCi/g     LCL:        UCL:        RPD:
MFVCE1AC-LCS:
  Sr-90       RDL:1          pCi/g     LCL:70      UCL:130     RPD:35
MFTWD1AD-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFVCE1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFVCE1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


TestAmerica Laboratories, Inc.

3/24/2011 11:33:58 PM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077144 pCi/g

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

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

TestAmerica Laboratories, Inc.

3/25/2011 10:46:23 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/25/2010, 3/30/2011, Batch: '1077144', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1077144						
AC		Rev1C	**WoodT**	3/20/2011 10:33:33		
SC			MaucierlS	IsBatched	3/18/2011 9:09:33 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/20/2011 10:33:33 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/21/2011 12:14:56 PM	RL-PRP-003 REVISION 1
SC			AshworthA	Sep2C	3/24/2011 11:19:09 PM	RL-GPC-003 REVISION 1
SC			DawkinsO	InCnt1	3/25/2011 12:10:44 AM	RL-CI-006 REVISION 1
SC			antonsonl	Rev1C	3/25/2011 10:46:13 AM	RL-DR-001 Rev 2
AC			**BouslaughP**	3/21/2011 12:14:56		
AC			**AshworthA**	3/24/2011 11:19:09		
AC			**DawkinsO**	3/25/2011 12:10:44		
AC			**antonsonl**	3/25/2011 10:46:13		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.44

3/21/2011 12:27:08 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: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077127 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:
1 MFTWD-1-AJ J1C170613-1-SAMP 03/17/2011 08:10			371.40g,in AmtRec: 1X60MLG,1X500MLP	371.40g #Containers: 2		≈260	200min	C15	1607	3/21/nm	
2 MFTWD-1-AL-X J1C170613-1-DUP 03/17/2011 08:10		ISV	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				C14	2047	3/21/11	
3 MFTWL-1-AJ J1C170613-2-SAMP 03/17/2011 08:30			357.80g,in AmtRec: 1X60MLG,1X500MLP	357.80g #Containers: 2				C11	1608	3/21/nm	
4 MFTWM-1-AJ J1C170613-3-SAMP 03/17/2011 08:35			367.90g,in AmtRec: 1X60MLG,1X500MLP	367.90g #Containers: 2				C7	1609		
5 MFTWQ-1-AJ J1C170613-4-SAMP 03/17/2011 08:40			387.90g,in AmtRec: 1X60MLG,1X500MLP	387.90g #Containers: 2				C10	1609		
6 MFTWX-1-AJ J1C170613-5-SAMP 03/17/2011 08:50			69.30g,in AmtRec: 1X60MLG,1X500MLP	69.30g #Containers: 2		≈25		C14	1610		
7 MFTW0-1-AJ J1C170613-6-SAMP 03/17/2011 09:35			57.40g,in AmtRec: 1X60MLG,1X500MLP	57.40g #Containers: 2				G7	2048	3/21/11	

Scr: Alpha: Beta:

TestAmerica Laboratories, Inc.

3/21/2011 12:27:09 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: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077127 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 MFTW1-1-AJ J1C170613-7-SAMP 03/17/2011 09:40			72.70g,in	72.70g		S25	200 min	G11	2049	3/21/11 OAD	
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:		Beta:
9 MFTW2-1-AJ J1C170613-8-SAMP 03/17/2011 09:45			382.00g,in	382.00g		S200		G10	2050		
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:		Beta:
10 MFTW3-1-AJ J1C170613-9-SAMP 03/17/2011 10:10			380.40g,in	380.40g				G15	2051		
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:		Beta:
11 MFTW4-1-AJ J1C170613-10-SAMP 03/17/2011 10:05			323.90g,in	323.90g				G10	0150	3/21/11 OAD	
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:		Beta:
12 MFTW5-1-AJ J1C170613-11-SAMP 03/17/2011 09:50			386.80g,in	386.80g				G7	0151		
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:		Beta:
13 MFTW6-1-AJ J1C170613-12-SAMP 03/17/2011 10:00			376.60g,in	376.60g				G14	0152		
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:		Beta:
14 MFTW7-1-AJ J1C170613-13-SAMP 03/17/2011 09:55			371.60g,in	371.60g				G11	0153		
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:		Beta:

TestAmerica Laboratories, Inc.

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3/21/2011 12:27:09 PM

Sample Preparation/Analysis

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

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

Balance Id:
Pipet #:

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077127 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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 MFTW8-1-AJ J1C170613-14-SAMP 03/17/2011 08:50			73.90g,in AmtRec: 1X60MLG,1X500MLP	73.90g #Containers: 2		~~S100~~ S25	200 min	G15 Scr:	0155 Alpha:	3/21/11 OAL Beta:	
16 MFT8T-1-AA-B J1C180000-127-BLK 03/18/2011 09:02 pd			348.00g,in AmtRec:	348.00g #Containers: 1		S200		G10 Scr:	0600 Alpha:	3/22/11 Beta:	
17 MFT8T-1-AC-C J1C180000-127-LCS 03/18/2011 09:02 pd			350.10g,in AmtRec:	350.10g #Containers: 1	QC20009 08/04/09,pd 09/01/09,r			G10 Scr:	0932 Alpha:	Beta:	

Comments: MFTWD-SAMP "Comments IVW Recount on a different detector"

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

MFTWD1AJ-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:

MFT8T1AA-BLK:

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

MFT8T1AC-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

TestAmerica Laboratories, Inc.

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: 03/24/2011

Batch: 1077127 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:

```
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
MFTWD1AJ-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
MFT8T1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
MFT8T1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```


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3/22/2011 2:18:34 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/22/2010, 3/27/2011, Batch: '1077127', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
1077127						
AC		**Rev1C**	**SannohS**	3/18/2011 2:36:41 PM		
SC			MaucieriS	IsBatched	3/18/2011 9:08:23 AM	ICOC_RADCALC v4.8.49
SC			SannohS	InPrep	3/18/2011 2:36:41 PM	RL-GAM-001 REVISION 1
SC			ClarkR	InCnt1	3/21/2011 12:34:44 PM	RL-CI-007 REVISION 1
SC			BlackCL	CalcC	3/22/2011 9:37:03 AM	RL-CI-007 REVISION 1
SC			WhelandS	Rev1C	3/22/2011 2:17:55 PM	RL-DR-001 Rev 2
AC			**ClarkR**	3/21/2011 12:34:44		
AC			**BlackCL**	3/22/2011 9:37:03		
AC			**WhelandS**	3/22/2011 2:17:55 PM		

AC: Accepting Entry; SC: Status Change

3/20/2011 12:21:24 PM

Sample Preparation/Analysis

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

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 03/24/2011

Batch: 1077142 SOIL pCi/g
SEQ Batch, Test: None

PM, Quote: RW2, 27038

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: SannohS,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MFTWD-1-AG J1C170613-1-SAMP 03/17/2011 08:10	1.98g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2		60		Scr:	Alpha:	Beta:
2 MFTWL-1-AG J1C170613-2-SAMP 03/17/2011 08:30	2.06g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
3 MFTWM-1-AG J1C170613-3-SAMP 03/17/2011 08:35	2.06g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
4 MFTWQ-1-AG J1C170613-4-SAMP 03/17/2011 08:40	2.05g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
5 MFTWX-1-AG J1C170613-5-SAMP 03/17/2011 08:50	2.07g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
6 MFTWX-1-AL-S J1C170613-5-MS 03/17/2011 08:50	2.07g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2	TCSG3068 12/21/10,pd 01/01/87,r			Scr:	Alpha:	Beta:
7 MFTWX-1-AM-X J1C170613-5-DUP 03/17/2011 08:50	2.05g,in	AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

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3/20/2011 12:21:25 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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/24/2011

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 1077142 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFTW0-1-AG J1C170613-6-SAMP 03/17/2011 09:35		2.04g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2	60		Scr:	Alpha:	Beta:
9 MFTW1-1-AG J1C170613-7-SAMP 03/17/2011 09:40		2.05g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MFTW2-1-AG J1C170613-8-SAMP 03/17/2011 09:45		1.97g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MFTW3-1-AG J1C170613-9-SAMP 03/17/2011 10:10		2.06g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MFTW4-1-AG J1C170613-10-SAMP 03/17/2011 10:05		1.97g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MFTW5-1-AG J1C170613-11-SAMP 03/17/2011 09:50		2.00g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MFTW6-1-AG J1C170613-12-SAMP 03/17/2011 10:00		2.07g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:

3/20/2011 12:21:25 PM

Sample Preparation/Analysis

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

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 03/24/2011

Batch: 1077142 SOIL pCi/g PM, Quote: RW2, 27038
SEQ Batch, Test: None

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFTW7-1-AG J1C170613-13-SAMP 03/17/2011 09:55		2.02g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2	60		Scr:	Alpha:	Beta:
16 MFTW8-1-AG J1C170613-14-SAMP 03/17/2011 08:50		2.03g,in AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
17 MFVA9-1-AA-B J1C180000-142-BLK 03/18/2011 09:02 pd		2.04g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MFVA9-1-AC-C J1C180000-142-LCS 03/18/2011 09:02 pd		1.97g,in AmtRec:	TCSF2249 03/08/11,pd 01/01/87 r #Containers: 1			Scr:	Alpha:	Beta:
19 MFVA9-1-AD-BN J1C180000-142-IBLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
20 MFVA9-1-AE-BN J1C180000-142-IBLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

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3/20/2011 12:21:26 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: 03/24/2011

Batch: 1077142 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: MFTWD-SAMP "Comments IVW Recount on a different detector"

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

MFTWD1AG-SAMP Constituent List:
Tc-99 RDL:15 pCi/g LCL:70 UCL:130 RPD:35
MFTWX1AL-MS:

MFVA91AA-BLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:
MFVA91AC-LCS:
Tc-99 RDL:15 pCi/g LCL:70 UCL:130 RPD:35
MFVA91AD-IBLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:
MFVA91AE-IBLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:

MFTWD1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFTWX1AL-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVA91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVA91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVA91AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVA91AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/25/2011 11:17:26 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/25/2010, 3/30/2011, Batch: '1077142', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1077142						
AC		Rev1C	**WoodT**	3/20/2011 11:54:08		
SC			MaucieriS	IsBatched	3/18/2011 9:09:23 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/20/2011 11:54:08 AM	RL-PRP-003 REVISION 1
SC			BlackCL	InCnt1	3/23/2011 10:45:07 AM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	3/25/2011 6:32:56 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/25/2011 11:17:14 AM	RL-DR-001 Rev 2
AC			**BlackCL**	3/23/2011 10:45:07		
AC			**BlackCL**	3/25/2011 6:32:56		
AC			**antonsonl**	3/25/2011 11:17:14		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.44

36,94

3/18/2011 9:03:05 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:
Pipet #:

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077137 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 MFTWD-1-AH J1C170613-1-SAMP 03/17/2011 08:10	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
2 MFTWD-1-AN-X J1C170613-1-DUP 03/17/2011 08:10	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
3 MFTWL-1-AH J1C170613-2-SAMP 03/17/2011 08:30	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
4 MFTWM-1-AH J1C170613-3-SAMP 03/17/2011 08:35	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
5 MFTWQ-1-AH J1C170613-4-SAMP 03/17/2011 08:40	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
6 MFTWX-1-AH J1C170613-5-SAMP 03/17/2011 08:50	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
7 MFTW0-1-AH J1C170613-6-SAMP 03/17/2011 09:35	AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:

3/18/2011 9:03:06 AM

Sample Preparation/Analysis

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

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

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

AnalyDueDate: 03/24/2011

Batch: 1077137 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFTW1-1-AH J1C170613-7-SAMP 03/17/2011 09:40		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
9 MFTW2-1-AH J1C170613-8-SAMP 03/17/2011 09:45		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
10 MFTW3-1-AH J1C170613-9-SAMP 03/17/2011 10:10		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
11 MFTW4-1-AH J1C170613-10-SAMP 03/17/2011 10:05		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
12 MFTW5-1-AH J1C170613-11-SAMP 03/17/2011 09:50		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
13 MFTW6-1-AH J1C170613-12-SAMP 03/17/2011 10:00		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
14 MFTW7-1-AH J1C170613-13-SAMP 03/17/2011 09:55		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/18/2011 9:03:07 AM

Sample Preparation/Analysis

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

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

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

AnalyDueDate: 03/24/2011

Batch: 1077137 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFTW8-1-AH J1C170613-14-SAMP 03/17/2011 08:50		AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
16 MFVAL-1-AA-B J1C180000-137-BLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MFVAL-1-AC-C J1C180000-137-LCS 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MFVAL-1-AD-BN J1C180000-137-IBLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
19 MFVAL-1-AE-BN J1C180000-137-IBLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MFTWD1AH-SAMP Constituent List:
H-3 RDL:400 pCi/g LCL:70 UCL:130 RPD:35

TestAmerica Laboratories, Inc.

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/24/2011

Batch: 1077137 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:

MFVAL1AA-BLK:

MFVAL1AC-LCS:

MFVAL1AD-IBLK:

MFVAL1AE-IBLK:

MFTWD1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAL1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAL1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAL1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAL1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/25/2011 11:11:57 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/25/2010, 3/30/2011, Batch: '1077137', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1077137						
AC		Rev1C	BlackCL	3/22/2011 12:14:40		
SC			MaucieriS	IsBatched	3/18/2011 9:09:04 AM	ICOC_RADCALC v4.8.49
SC			BlackCL	InCnt1	3/22/2011 12:14:40 PM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	3/25/2011 6:32:46 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/25/2011 11:11:45 AM	RL-DR-001 Rev 2
AC			BlackCL	3/25/2011 6:32:46		
AC			antonsonl	3/25/2011 11:11:45		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 3

ICOCFractions v4.8.44

11, 28

3/18/2011 9:03:03 AM

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: 03/24/2011

Batch: 1077135 **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:
1 MFTWD-1-AK J1C170613-1-SAMP 03/17/2011 08:10		5.029g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 MFTWD-1-AM-X J1C170613-1-DUP 03/17/2011 08:10		5.046g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 MFTWL-1-AK J1C170613-2-SAMP 03/17/2011 08:30		5.037g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 MFTWM-1-AK J1C170613-3-SAMP 03/17/2011 08:35		5.034g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 MFTWQ-1-AK J1C170613-4-SAMP 03/17/2011 08:40		5.043g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
6 MFTWX-1-AK J1C170613-5-SAMP 03/17/2011 08:50		5.023g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
7 MFTW0-1-AK J1C170613-6-SAMP 03/17/2011 09:35		5.050g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:

Test America Laboratories, Inc.

3/18/2011 9:03:04 AM

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: 03/24/2011

Batch: 1077135 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 MFTW1-1-AK J1C170613-7-SAMP 03/17/2011 09:40		5.036g AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
9 MFTW2-1-AK J1C170613-8-SAMP 03/17/2011 09:45		5.034g AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
10 MFTW3-1-AK J1C170613-9-SAMP 03/17/2011 10:10		5.041g AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
11 MFTW4-1-AK J1C170613-10-SAMP 03/17/2011 10:05		5.017g AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
12 MFTW5-1-AK J1C170613-11-SAMP 03/17/2011 09:50		5.026g AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
13 MFTW6-1-AK J1C170613-12-SAMP 03/17/2011 10:00		5.037g AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:
14 MFTW7-1-AK J1C170613-13-SAMP 03/17/2011 09:55		5.015g AmtRec: 1X60MLG,1X500MLP #Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/18/2011 9:03:04 AM

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

Balance Id:

Pipet #:

AnalyDueDate: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077135 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:
15 MFTW8-1-AK J1C170613-14-SAMP 03/17/2011 08:50		5.037g AmtRec: 1X60MLG,1X500MLP	#Containers: 2			Scr:	Alpha:	Beta:
16 MFVAE-1-AA-B J1C180000-135-BLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 MFVAE-1-AC-C J1C180000-135-LCS 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 MFVAE-1-AD-BN J1C180000-135-IBLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
19 MFVAE-1-AE-BN J1C180000-135-IBLK 03/18/2011 09:02 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

MFTWD1AK-SAMP Constituent List:
C-14 RDL:50 pCi/g LCL:70 UCL:130 RPD:35

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: 03/24/2011

Batch: 1077135 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:

MFVAE1AA-BLK:

MFVAE1AC-LCS:

MFVAE1AD-IBLK:

MFVAE1AE-IBLK:

MFTWD1AK-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAE1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFVAE1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/23/2011 4:03:37 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/23/2010, 3/28/2011, Batch: '1077135', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1077135						
AC		**Rev1C**	**BlackCL**	3/22/2011 12:15:22		
SC			MaucieriS	IsBatched	3/18/2011 9:08:52 AM	ICOC_RADCALC v4.8.49
SC			BlackCL	InCnt1	3/22/2011 12:15:22 PM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	3/23/2011 8:47:46 AM	RL-CI-005 REVISION 1
SC			WhelandS	Rev1C	3/23/2011 4:02:25 PM	RL-DR-001 Rev 2
AC			**BlackCL**	3/23/2011 8:47:46		
AC			**WhelandS**	3/23/2011 4:02:25 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 3

ICOCFractions v4.8.44

3/20/2011 11:26:16 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/24/2011 JP0127

Batch: 1077140 SOIL pCi/g
SEQ Batch, Test: None

PM, Quote: RW2, 27038

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 MFTWD-1-AE J1C170613-1-SAMP 03/17/2011 08:10			0.24g,in	0.24g	NITA3951 03/16/11	20				
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
2 MFTWL-1-AE J1C170613-2-SAMP 03/17/2011 08:30			0.25g,in	0.25g	NITA3952 03/16/11					
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
3 MFTWM-1-AE J1C170613-3-SAMP 03/17/2011 08:35			0.27g,in	0.27g	NITA3953 03/16/11					
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
4 MFTWQ-1-AE J1C170613-4-SAMP 03/17/2011 08:40			0.28g,in	0.28g	NITA3954 03/16/11					
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
5 MFTWQ-1-AL-X J1C170613-4-DUP 03/17/2011 08:40			0.28g,in	0.28g	NITA3955 03/16/11					
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
6 MFTWX-1-AE J1C170613-5-SAMP 03/17/2011 08:50			0.24g,in	0.24g	NITA3956 03/16/11					
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:
7 MFTW0-1-AE J1C170613-6-SAMP 03/17/2011 09:35			0.24g,in	0.24g	NITA3957 03/16/11					
			AmtRec: 1X60MLG,1X500MLP	#Containers: 2				Scr:	Alpha:	Beta:

3/20/2011 11:26:17 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 03/24/2011

Batch: 1077140 SOIL pCi/g
SEQ Batch, Test: None

PM, Quote: RW2, 27038

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFTW1-1-AE J1C170613-7-SAMP 03/17/2011 09:40			0.26g,in AmtRec: 1X60MLG,1X500MLP	0.26g #Containers: 2	NITA3958 03/16/11	20		Scr:	Alpha:	Beta:
9 MFTW2-1-AE J1C170613-8-SAMP 03/17/2011 09:45			0.24g,in AmtRec: 1X60MLG,1X500MLP	0.24g #Containers: 2	NITA3959 03/16/11			Scr:	Alpha:	Beta:
10 MFTW3-1-AE J1C170613-9-SAMP 03/17/2011 10:10			0.24g,in AmtRec: 1X60MLG,1X500MLP	0.24g #Containers: 2	NITA3960 03/16/11			Scr:	Alpha:	Beta:
11 MFTW4-1-AE J1C170613-10-SAMP 03/17/2011 10:05			0.27g,in AmtRec: 1X60MLG,1X500MLP	0.27g #Containers: 2	NITA3961 03/16/11			Scr:	Alpha:	Beta:
12 MFTW5-1-AE J1C170613-11-SAMP 03/17/2011 09:50			0.26g,in AmtRec: 1X60MLG,1X500MLP	0.26g #Containers: 2	NITA3962 03/16/11			Scr:	Alpha:	Beta:
13 MFTW6-1-AE J1C170613-12-SAMP 03/17/2011 10:00			0.26g,in AmtRec: 1X60MLG,1X500MLP	0.26g #Containers: 2	NITA3963 03/16/11			Scr:	Alpha:	Beta:
14 MFTW7-1-AE J1C170613-13-SAMP 03/17/2011 09:55			0.25g,in AmtRec: 1X60MLG,1X500MLP	0.25g #Containers: 2	NITA3964 03/16/11			Scr:	Alpha:	Beta:

3/20/2011 11:26:17 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: 03/24/2011

Sep1 DT/Tm Tech:

Batch: 1077140 SOIL pCi/g PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFTW8-1-AE J1C170613-14-SAMP 03/17/2011 08:50		AmtRec: 1X60MLG,1X500MLP	0.24g,in	0.24g #Containers: 2	NITA3965 03/16/11	20		Scr:	Alpha:	Beta:
16 MFVA4-1-AA-B J1C180000-140-BLK 03/18/2011 09:02 pd		AmtRec:	0.26g,in	0.26g #Containers: 1	NITA3966 03/16/11			Scr:	Alpha:	Beta:
17 MFVA4-1-AC-C J1C180000-140-LCS 03/18/2011 09:02 pd		AmtRec:	0.28g,in	0.28g #Containers: 1	NISA1389 01/27/11			Scr:	Alpha:	Beta:
18 MFVA4-1-AD-BN J1C180000-140-IBLK 03/18/2011 09:02 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
19 MFVA4-1-AE-BN J1C180000-140-IBLK 03/18/2011 09:02 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments: MFTWD-SAMP "Comments IVW Recount on a different detector"

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

MFTWD1AE-SAMP Constituent List:

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/24/2011

Batch: 1077140 pCi/g
SEQ Batch, Test: None

PRIORITY

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:

```
 Ni-63        RDL:30          pCi/g     LCL:70      UCL:130     RPD:35
MFVA41AA-BLK:
 Ni-63        RDL:30          pCi/g     LCL:        UCL:        RPD:
MFVA41AC-LCS:
 Ni-63        RDL:30          pCi/g     LCL:70      UCL:130     RPD:35
MFVA41AD-IBLK:
 Ni-63        RDL:30          pCi/g     LCL:        UCL:        RPD:
MFVA41AE-IBLK:
 Ni-63        RDL:30          pCi/g     LCL:        UCL:        RPD:
MFTWD1AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFVA41AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFVA41AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFVA41AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MFVA41AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

3/28/2011 10:43:55 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/28/2010, 4/2/2011, Batch: '1077140', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1077140						
AC		Rev1C	**WoodT**	3/20/2011 11:04:08		
SC			MaucieriS	IsBatched	3/18/2011 9:09:14 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/20/2011 11:04:08 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/21/2011 8:17:59 AM	RL-PRP-003 REVISION 1
SC			BlackCL	InCnt1	3/23/2011 2:53:08 PM	RL-CI-005 REVISION 1
SC			BlackCL	CalcC	3/28/2011 8:27:15 AM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/28/2011 10:43:43 AM	RL-DR-001 Rev 2
AC			**BouslaughP**	3/21/2011 8:17:59		
AC			**BlackCL**	3/23/2011 2:53:08 PM		
AC			**BlackCL**	3/28/2011 8:27:15		
AC			**antonsonl**	3/28/2011 10:43:43		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

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Grp Rec Cnt: 5

ICOCFractions v4.8.44

3/23/2011 8:16:23 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 03/24/2011

Batch: 1080215 **SOIL** **mg/kg** **PM, Quote: RW2, 27038**

SEQ Batch, Test: None All Tests: 1077127 AXTA, 1077129 6ASO, 1077132 7SSR, 1077135 5SS3, 1077137 ATS6, 1077140 AFS4, 1077142 ANS5, 1077144 CHTH, 1080215 DWEA,

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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MFTWD-1-AA										
J1C170613-1-SAMP										
03/17/2011 08:10		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
2 MFTWD-1-AP-S										
J1C170613-1-MS										
03/17/2011 08:10		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
3 MFTWD-1-AQ-X										
J1C170613-1-DUP										
03/17/2011 08:10		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
4 MFTWL-1-AA										
J1C170613-2-SAMP										
03/17/2011 08:30		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
5 MFTWM-1-AA										
J1C170613-3-SAMP										
03/17/2011 08:35		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
6 MFTWQ-1-AA										
J1C170613-4-SAMP										
03/17/2011 08:40		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
7 MFTWX-1-AA										
J1C170613-5-SAMP										
03/17/2011 08:50		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:

3/23/2011 8:16:23 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/24/2011

Batch: 1080215 SOIL mg/kg 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MFTW0-1-AA										
J1C170613-6-SAMP										
03/17/2011 09:35		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
9 MFTW1-1-AA										
J1C170613-7-SAMP										
03/17/2011 09:40		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
10 MFTW2-1-AA										
J1C170613-8-SAMP										
03/17/2011 09:45		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
11 MFTW3-1-AA										
J1C170613-9-SAMP										
03/17/2011 10:10		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
12 MFTW4-1-AA										
J1C170613-10-SAMP										
03/17/2011 10:05		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
13 MFTW5-1-AA										
J1C170613-11-SAMP										
03/17/2011 09:50		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
14 MFTW6-1-AA										
J1C170613-12-SAMP										
03/17/2011 10:00		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

3/23/2011 8:16:24 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 03/24/2011

Batch: 1080215 SOIL mg/kg 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MFTW7-1-AA J1C170613-13-SAMP 03/17/2011 09:55		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
16 MFTW8-1-AA J1C170613-14-SAMP 03/17/2011 08:50		AmtRec: 1X60MLG,1X500MLP		#Containers: 2				Scr:	Alpha:	Beta:
17 MFXXN-1-AA-B J1C210000-215-BLK 03/23/2011 20:16 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
18 MFXXN-1-AC-C J1C210000-215-LCS 03/23/2011 20:16 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments: MFTWD-SAMP "Comments IVW Recount on a different detector"

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

MFTWD1AA-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20
MFTWD1AP-MS Constituent List:
HEXCHROME RDL:0.35 mg/kg LCL:75 UCL:125 RPD:20
MFXXN1AA-BLK:
HEXCHROME RDL:0.1548 mg/kg LCL: UCL: RPD:
MFXXN1AC-LCS:

TestAmerica Laboratories, Inc.

Sample Preparation/Analysis

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

AnalyDueDate: 03/24/2011

Batch: 1080215 mg/kg
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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

HEXCHROME RDL:0.35 mg/kg LCL:80 UCL:120 RPD:20

MFTWD1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFTWD1AP-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFXXN1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MFXXN1AC-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: 280-13663-1

SDG Number: JP0127

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
4/1/2011 5:03 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/01/2011

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

The Lab Certification ID# is E87667.

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

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

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-13663-1

SDG #: JP0127
SAF#: RC-107

Date SDG Closed: March 18, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FKL6	280-13663-1	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKL7	280-13663-2	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKL8	280-13663-3	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKL9	280-13663-4	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM0	280-13663-5	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM1	280-13663-6	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM2	280-13663-7	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM3	280-13663-8	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM4	280-13663-9	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM5	280-13663-10	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM6	280-13663-11	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM7	280-13663-12	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM8	280-13663-13	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKM9	280-13663-14	6010/7471/9056M/353.2/9045/WTPH-D+/ 8270A/8082/8310/8081	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ 8270C/8082/8310/8081A
J1FKN0	280-13663-15	6010/7471/8270A	6010B/7471A/8270C

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 3/18/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.4 C, 2.7 C, 3.4 C and 4.7 C.

GC/MS SEMIVOLATILES - SW846 8270C

Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in several samples due to matrix interferences. It can be noted that these compounds were adequately resolved in associated standards, indicating the instrument is achieving separation. The combined peak was reported as Benzo(b)fluoranthene, while Benzo(k)fluoranthene was reported as undetected even though it may be present. Associated results have been flagged with a "K".

Low levels of Bis(2-ethylhexyl) phthalate, a common laboratory contaminant, are present in the method blank associated with batch 280-58311. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8081A - PESTICIDEs

The RPD between the primary and confirmation columns exceeded 40% for 4,4'-DDE in samples J1FKL6, J1FKM4 and J1FKM8. The lower of the two values has been reported, as matrix interference is evident. Associated results have been flagged with an "X".

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high constituent concentration, sample J1FKM2 required a dilution prior to the analysis of 4,4'-DDE, and the associated result has been flagged with a "D". The reporting limit has been adjusted relative to the dilution required.

The MSD aliquot of the MS/MSD performed on sample J1FKM2 exhibited the percent recovery outside the control limits for 4,4'-DDE, and the associated sample result has been flagged "N". In addition, the RPD limit was exceeded for Endrin aldehyde. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs

The laboratory noted that sample J1FKM1 contained more than one Aroclor component. Results should be considered estimated due to shared peaks.

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO

No anomalies were encountered.

HPLC - SW846 8310 - PAHs

In some cases, the RPD between the primary and confirmation columns exceeded 40%. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-58304 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Low levels of Calcium and Magnesium are present in the method blank associated with batch 280-58304. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary.

Silicon was recovered outside the control limits, biased low, in the LCS associated with batch 280-58304, and in the Matrix Spike performed on sample J1FKL6 in batch 280-58304. The associated sample results have been flagged "N". Silicon is a poor performer and has a history of reacting inconsistently. Data are reported as is.

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 J1FKL6; therefore, control limits are not applicable.

Mercury was recovered outside the control limits in the Matrix Spike performed on sample J1FKM8, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

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: 280-13663-1
Sdg Number: JP0127

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
	J	Indicates an Estimated Value for TICs
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	The reported value is from a dilution.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Lab Section	Qualifier	Description
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.
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.
	X	More than 40% difference between columns, lower result reported.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
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.

NWTPH = Northwest Total Petroleum Hydrocarbon

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: 280-13663-1
Sdg Number: JP0127

Method	Analyst	Analyst ID
SW846 8270C	Hoffman, Michael G	MGH
SW846 8081A	Ream, Brian E	BER
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Trudell, Lynn-Anne	LT
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: 280-13663-1
Sdg Number: JP0127

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13663-1	J1FKL6	Solid	03/17/2011 0810	03/18/2011 0930
280-13663-2	J1FKL7	Solid	03/17/2011 0830	03/18/2011 0930
280-13663-3	J1FKL8	Solid	03/17/2011 0835	03/18/2011 0930
280-13663-4	J1FKL9	Solid	03/17/2011 0840	03/18/2011 0930
280-13663-5	J1FKM0	Solid	03/17/2011 0850	03/18/2011 0930
280-13663-6	J1FKM1	Solid	03/17/2011 0935	03/18/2011 0930
280-13663-7	J1FKM2	Solid	03/17/2011 0940	03/18/2011 0930
280-13663-8	J1FKM3	Solid	03/17/2011 0945	03/18/2011 0930
280-13663-9	J1FKM4	Solid	03/17/2011 1010	03/18/2011 0930
280-13663-10	J1FKM5	Solid	03/17/2011 1005	03/18/2011 0930
280-13663-11	J1FKM6	Solid	03/17/2011 0950	03/18/2011 0930
280-13663-12	J1FKM7	Solid	03/17/2011 1000	03/18/2011 0930
280-13663-13	J1FKM8	Solid	03/17/2011 0955	03/18/2011 0930
280-13663-14	J1FKM9	Solid	03/17/2011 0850	03/18/2011 0930
280-13663-15	J1FKN0	Solid	03/17/2011 0805	03/18/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9011.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Date Analyzed:	03/21/2011 1414			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		71	J	21	340
Benzo[b]fluoranthene		30	J K	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		42	U K	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		120	J B	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		38	U	38	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		13	U	13	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		38	U	38	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		65	J	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9011.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Date Analyzed:	03/21/2011 1414			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		76	U	76	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	690
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		25	J	13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	82		55 - 120
2,4,6-Tribromophenol	66		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9011.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Date Analyzed:	03/21/2011 1414			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.81	480	N J
	Unknown	3.25	3000	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid % Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9012.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1434			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		110	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	830
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9012.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1434			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		73	U	73	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	80		50 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	85		55 - 120
2,4,6-Tribromophenol	68		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9012.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1434			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	2700	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9013.D
Dilution:	1.0			Initial Weight/Volume:	32.1 g
Date Analyzed:	03/21/2011 1454			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		15	U	15	320
Benzo[k]fluoranthene		38	U	38	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		110	J B	44	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		41	U	41	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		63	U	63	320
2-Chloronaphthalene		9.6	U	9.6	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	630
2,4-Dichlorophenol		9.6	U	9.6	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		63	U	63	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	630
2,4-Dinitrophenol		320	U	320	790
2,4-Dinitrotoluene		63	U	63	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.6	U	9.6	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		20	U	20	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9013.D
Dilution:	1.0			Initial Weight/Volume:	32.1 g
Date Analyzed:	03/21/2011 1454			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		70	U	70	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.6	U	9.6	320
4-Nitrophenol		93	U	93	630
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	630
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.6	U	9.6	320
2,4,6-Trichlorophenol		9.6	U	9.6	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		50 - 120
2-Fluorophenol	90		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	91		52 - 120
Terphenyl-d14	88		55 - 120
2,4,6-Tribromophenol	73		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid

% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9013.D
Dilution:	1.0			Initial Weight/Volume:	32.1 g
Date Analyzed:	03/21/2011 1454			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	3100	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9014.D
Dilution:	1.0			Initial Weight/Volume:	31.9 g
Date Analyzed:	03/21/2011 1515			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		15	J	10	320
Acenaphthylene		17	U	17	320
Anthracene		31	J	17	320
Benzo[a]anthracene		69	J	20	320
Benzo[a]pyrene		100	J	20	320
Benzo[b]fluoranthene		110	J K	26	320
Benzo[ghi]perylene		31	J	16	320
Benzo[k]fluoranthene		39	U K	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		100	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		69	J	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		140	J	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		75	J	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9014.D
Dilution:	1.0			Initial Weight/Volume:	31.9 g
Date Analyzed:	03/21/2011 1515			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		110	J	17	320
Phenol		18	U	18	320
Pyrene		120	J	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	84		55 - 120
2,4,6-Tribromophenol	66		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9014.D
Dilution:	1.0			Initial Weight/Volume:	31.9 g
Date Analyzed:	03/21/2011 1515			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	3000	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9015.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Date Analyzed:	03/21/2011 1535			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		71	J	20	330
Benzo[a]pyrene		110	J	20	330
Benzo[b]fluoranthene		120	J K	26	330
Benzo[ghi]perylene		41	J	16	330
Benzo[k]fluoranthene		40	U K	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		110	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		66	J	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		120	J	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		83	J	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9015.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Date Analyzed:	03/21/2011 1535			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		44	J	17	330
Phenol		18	U	18	330
Pyrene		110	J	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	82		50 - 120
2-Fluorophenol	84		53 - 120
Nitrobenzene-d5	80		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	92		55 - 120
2,4,6-Tribromophenol	75		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9015.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Date Analyzed:	03/21/2011 1535			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	2900	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9016.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 1555			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		66	J	20	340
Benzo[a]pyrene		110	J	20	340
Benzo[b]fluoranthene		120	J K	27	340
Benzo[ghi]perylene		46	J	16	340
Benzo[k]fluoranthene		41	U K	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		130	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		63	J	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		99	J	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		91	J	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9016.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 1555			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	680
Phenanthrene		33	J	17	340
Phenol		18	U	18	340
Pyrene		92	J	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	74		53 - 120
Nitrobenzene-d5	71		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	94		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid
% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9016.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 1555			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	2600	N J
	Unknown	11.32	180	N J
	Unknown	12.34	170	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9018.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Date Analyzed:	03/21/2011 1636			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		29	J	21	350
Benzo[a]pyrene		85	J	21	350
Benzo[b]fluoranthene		56	J K	28	350
Benzo[ghi]perylene		23	J	17	350
Benzo[k]fluoranthene		42	U K	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		18	U	18	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		130	J B	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		46	U	46	350
Carbazole		38	U	38	350
4-Chloroaniline		87	U	87	350
4-Chloro-3-methylphenol		70	U	70	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		29	J	29	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		95	U	95	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		28	U	28	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		48	J	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		23	U	23	350
Indeno[1,2,3-cd]pyrene		75	J	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid

% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9018.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Date Analyzed:	03/21/2011 1636			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		33	U	33	350
2-Nitroaniline		53	U	53	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		77	U	77	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	700
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	700
Phenanthrene		23	J	18	350
Phenol		19	U	19	350
Pyrene		52	J	13	350
1,2,4-Trichlorobenzene		30	U	30	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	87		55 - 120
2,4,6-Tribromophenol	74		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9018.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Date Analyzed:	03/21/2011 1636			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **4**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	3500	N J
	Unknown	11.21	420	N J
	Unknown	11.69	150	N J
629-94-7	Heneicosane	12.33	240	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9019.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 1657			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	360
Acenaphthylene		18	U	18	360
Anthracene		20	J	18	360
Benzo[a]anthracene		90	J	22	360
Benzo[a]pyrene		130	J	22	360
Benzo[b]fluoranthene		130	J K	28	360
Benzo[ghi]perylene		64	J	17	360
Benzo[k]fluoranthene		43	U K	43	360
Bis(2-chloroethoxy)methane		25	U	25	360
Bis(2-chloroethyl)ether		18	U	18	360
bis (2-chloroisopropyl) ether		25	U	25	360
Bis(2-ethylhexyl) phthalate		120	J B	49	360
4-Bromophenyl phenyl ether		20	U	20	360
Butyl benzyl phthalate		46	U	46	360
Carbazole		39	U	39	360
4-Chloroaniline		88	U	88	360
4-Chloro-3-methylphenol		71	U	71	360
2-Chloronaphthalene		11	U	11	360
2-Chlorophenol		23	U	23	360
4-Chlorophenyl phenyl ether		23	U	23	360
Chrysene		94	J	29	360
Dibenz(a,h)anthracene		20	U	20	360
Dibenzofuran		22	U	22	360
1,2-Dichlorobenzene		24	U	24	360
1,3-Dichlorobenzene		13	U	13	360
1,4-Dichlorobenzene		15	U	15	360
3,3'-Dichlorobenzidine		97	U	97	710
2,4-Dichlorophenol		11	U	11	360
Diethyl phthalate		28	U	28	360
2,4-Dimethylphenol		71	U	71	360
Dimethyl phthalate		25	U	25	360
Di-n-butyl phthalate		31	U	31	360
4,6-Dinitro-2-methylphenol		360	U	360	710
2,4-Dinitrophenol		360	U	360	890
2,4-Dinitrotoluene		71	U	71	360
2,6-Dinitrotoluene		30	U	30	360
Di-n-octyl phthalate		15	U	15	360
Fluoranthene		190	J	39	360
Fluorene		19	U	19	360
Hexachlorobenzene		31	U	31	360
Hexachlorobutadiene		11	U	11	360
Hexachlorocyclopentadiene		54	U	54	360
Hexachloroethane		23	U	23	360
Indeno[1,2,3-cd]pyrene		97	J	24	360
Isophorone		18	U	18	360
2-Methylnaphthalene		20	U	20	360

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9019.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 1657			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	360
3 & 4 Methylphenol		36	U	36	360
Naphthalene		33	U	33	360
2-Nitroaniline		54	U	54	360
3-Nitroaniline		79	U	79	360
4-Nitroaniline		78	U	78	360
Nitrobenzene		24	U	24	360
2-Nitrophenol		11	U	11	360
4-Nitrophenol		100	U	100	710
N-Nitrosodi-n-propylamine		33	U	33	360
N-Nitrosodiphenylamine		23	U	23	360
Pentachlorophenol		360	U	360	710
Phenanthrene		120	J	18	360
Phenol		19	U	19	360
Pyrene		210	J	13	360
1,2,4-Trichlorobenzene		30	U	30	360
2,4,5-Trichlorophenol		11	U	11	360
2,4,6-Trichlorophenol		11	U	11	360

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	85		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	95		55 - 120
2,4,6-Tribromophenol	81		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9019.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 1657			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **4**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2213-23-2	Heptane, 2,4-dimethyl-	3.06	140	N J
	Unknown	3.25	3000	N J
	Unknown	11.04	230	N J
	Unknown	11.19	2100	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9021.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1737			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		71	J	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		120	J B	47	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		63	J	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9021.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1737			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		19	J	18	340
Phenol		19	U	19	340
Pyrene		38	J	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	84		55 - 120
2,4,6-Tribromophenol	69		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674	Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311	Lab File ID:	Y9021.D
Dilution:	1.0		Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1737		Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613		Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.82	220	N J
	Unknown	3.25	3100	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method: 8270C
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/21/2011 1758
Date Prepared: 03/18/2011 1613

Analysis Batch: 280-58674
Prep Batch: 280-58311

Instrument ID: MSS_Y
Lab File ID: Y9022.D
Initial Weight/Volume: 30.6 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	360
Acenaphthylene		18	U	18	360
Anthracene		18	U	18	360
Benzo[a]anthracene		22	U	22	360
Benzo[a]pyrene		69	J	22	360
Benzo[b]fluoranthene		28	U	28	360
Benzo[ghi]perylene		17	U	17	360
Benzo[k]fluoranthene		43	U	43	360
Bis(2-chloroethoxy)methane		25	U	25	360
Bis(2-chloroethyl)ether		18	U	18	360
bis (2-chloroisopropyl) ether		25	U	25	360
Bis(2-ethylhexyl) phthalate		120	J B	50	360
4-Bromophenyl phenyl ether		21	U	21	360
Butyl benzyl phthalate		47	U	47	360
Carbazole		39	U	39	360
4-Chloroaniline		89	U	89	360
4-Chloro-3-methylphenol		72	U	72	360
2-Chloronaphthalene		11	U	11	360
2-Chlorophenol		23	U	23	360
4-Chlorophenyl phenyl ether		23	U	23	360
Chrysene		29	U	29	360
Dibenz(a,h)anthracene		21	U	21	360
Dibenzofuran		22	U	22	360
1,2-Dichlorobenzene		24	U	24	360
1,3-Dichlorobenzene		13	U	13	360
1,4-Dichlorobenzene		15	U	15	360
3,3'-Dichlorobenzidine		98	U	98	720
2,4-Dichlorophenol		11	U	11	360
Diethyl phthalate		28	U	28	360
2,4-Dimethylphenol		72	U	72	360
Dimethyl phthalate		25	U	25	360
Di-n-butyl phthalate		32	U	32	360
4,6-Dinitro-2-methylphenol		360	U	360	720
2,4-Dinitrophenol		360	U	360	900
2,4-Dinitrotoluene		72	U	72	360
2,6-Dinitrotoluene		30	U	30	360
Di-n-octyl phthalate		16	U	16	360
Fluoranthene		39	U	39	360
Fluorene		20	U	20	360
Hexachlorobenzene		32	U	32	360
Hexachlorobutadiene		11	U	11	360
Hexachlorocyclopentadiene		54	U	54	360
Hexachloroethane		23	U	23	360
Indeno[1,2,3-cd]pyrene		64	J	24	360
Isophorone		18	U	18	360
2-Methylnaphthalene		21	U	21	360

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid
% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9022.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Date Analyzed:	03/21/2011 1758			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	360
3 & 4 Methylphenol		36	U	36	360
Naphthalene		34	U	34	360
2-Nitroaniline		54	U	54	360
3-Nitroaniline		79	U	79	360
4-Nitroaniline		79	U	79	360
Nitrobenzene		24	U	24	360
2-Nitrophenol		11	U	11	360
4-Nitrophenol		110	U	110	720
N-Nitrosodi-n-propylamine		34	U	34	360
N-Nitrosodiphenylamine		23	U	23	360
Pentachlorophenol		360	U	360	720
Phenanthrene		18	U	18	360
Phenol		20	U	20	360
Pyrene		18	J	13	360
1,2,4-Trichlorobenzene		30	U	30	360
2,4,5-Trichlorophenol		11	U	11	360
2,4,6-Trichlorophenol		11	U	11	360

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	81		55 - 120
2,4,6-Tribromophenol	68		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9022.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Date Analyzed:	03/21/2011 1758			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **1**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	2900	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9023.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 1818			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		110	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	830
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9023.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 1818			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		73	U	73	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		98	U	98	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol	82		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	84		52 - 120
Terphenyl-d14	86		55 - 120
2,4,6-Tribromophenol	70		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9023.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 1818			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	2800	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9024.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Date Analyzed:	03/21/2011 1838			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		110	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		81	U	81	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		27	U	27	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		89	U	89	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		26	U	26	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		29	U	29	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		28	U	28	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		29	U	29	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid
% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9024.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Date Analyzed:	03/21/2011 1838			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		31	U	31	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		72	U	72	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		31	U	31	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		28	U	28	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol	83		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	67		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9024.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Date Analyzed:	03/21/2011 1838			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	2900	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9025.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1858			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		70	J	21	340
Benzo[b]fluoranthene		27	J K	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U K	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		130	J B	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		64	J	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9025.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1858			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		28	J	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	73		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	76		50 - 120
Phenol-d5	79		52 - 120
Terphenyl-d14	79		55 - 120
2,4,6-Tribromophenol	64		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674	Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311	Lab File ID:	Y9025.D
Dilution:	1.0		Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 1858		Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613		Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	3100	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9026.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 1919			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		19	J	17	330
Benzo[a]anthracene		130	J	20	330
Benzo[a]pyrene		150	J	20	330
Benzo[b]fluoranthene		210	J K	26	330
Benzo[ghi]perylene		68	J	16	330
Benzo[k]fluoranthene		40	U K	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		110	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		120	J	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		67	U	67	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	670
2,4-Dinitrophenol		340	U	340	830
2,4-Dinitrotoluene		67	U	67	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		15	U	15	330
Fluoranthene		210	J	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		22	U	22	330
Indeno[1,2,3-cd]pyrene		110	J	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9026.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 1919			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		74	U	74	330
4-Nitroaniline		73	U	73	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		98	U	98	670
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	670
Phenanthrene		62	J	17	330
Phenol		18	U	18	330
Pyrene		190	J	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	73		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	77		50 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	69		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9026.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 1919			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.25	2600	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKN0**

Lab Sample ID: 280-13663-15
Client Matrix: Solid

% Moisture: 0.1

Date Sampled: 03/17/2011 0805
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method: 8270C
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/21/2011 1939
Date Prepared: 03/18/2011 1613

Analysis Batch: 280-58674
Prep Batch: 280-58311

Instrument ID: MSS_Y
Lab File ID: Y9027.D
Initial Weight/Volume: 30.2 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		120	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		81	U	81	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKN0**

Lab Sample ID: 280-13663-15
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 03/17/2011 0805
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9027.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 1939			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		9.9	U	9.9	330
4-Nitrophenol		96	U	96	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		9.9	U	9.9	330
2,4,6-Trichlorophenol		9.9	U	9.9	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	86		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	84		55 - 120
2,4,6-Tribromophenol	68		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKN0**

Lab Sample ID: 280-13663-15
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 03/17/2011 0805
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58674		Instrument ID:	MSS_Y
Preparation:	3550C	Prep Batch: 280-58311		Lab File ID:	Y9027.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 1939			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2213-23-2	Heptane, 2,4-dimethyl-	3.06	140	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.17	130	N J
	Unknown	3.25	3200	N J

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 1647			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.45	J X	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.23	U	0.23	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.23	U	0.23	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.19	U	0.19	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	77		59 - 115
Decachlorobiphenyl	93		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 1704			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	90		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid
% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 1721			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.60	U	0.60	1.7
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	U	0.68	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	91		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 1737			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		59 - 115
Decachlorobiphenyl	87		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 1754			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.18	U	0.18	1.6
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	74		59 - 115
Decachlorobiphenyl	95		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 1810			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.8
4,4'-DDE		14		0.25	1.8
4,4'-DDT		5.3		0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.27	U	0.27	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	79		59 - 115
Decachlorobiphenyl	91		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid

% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 1933			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDT		4.4		0.63	1.8
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.71	U	0.71	1.8
delta-BHC		0.43	U	0.43	1.8
gamma-BHC (Lindane)		0.50	U	0.50	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.46	U	0.46	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.8
Endosulfan sulfate		0.30	U	0.30	1.8
Endrin		0.33	U	0.33	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.35	U	0.35	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	70		59 - 115
Decachlorobiphenyl	100		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58942		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.2 g
Dilution:	2.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/22/2011 2110	Run Type:	DL	Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDE		40	D N	0.51	3.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	72	D	59 - 115
Decachlorobiphenyl	103	D	63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid
% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/22/2011 0244			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		1.1	J	0.25	1.8
4,4'-DDT		0.74	J	0.63	1.8
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.71	U	0.71	1.8
delta-BHC		0.43	U	0.43	1.8
gamma-BHC (Lindane)		0.49	U	0.49	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.45	U	0.45	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	74		59 - 115
Decachlorobiphenyl	88		63 - 124

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 2040			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.46	J X	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	76		59 - 115
Decachlorobiphenyl	96		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid
% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 2056			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.60	U	0.60	1.9
4,4'-DDE		0.26	U	0.26	1.9
4,4'-DDT		0.65	U	0.65	1.9
Aldrin		0.28	U	0.28	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.73	U	0.73	1.8
delta-BHC		0.44	U	0.44	1.8
gamma-BHC (Lindane)		0.51	U	0.51	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.47	U	0.47	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.9
Endosulfan sulfate		0.30	U	0.30	1.9
Endrin		0.34	U	0.34	1.9
Endrin aldehyde		0.19	U	0.19	1.9
Endrin ketone		0.54	U	0.54	1.9
gamma-Chlordane		0.29	U	0.29	1.9
Methoxychlor		0.49	U	0.49	3.6
alpha-Chlordane		0.35	U	0.35	1.9
Dieldrin		0.23	U	0.23	1.9
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		59 - 115
Decachlorobiphenyl	87		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 2113			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.21	U	0.21	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.46	U	0.46	1.7
Heptachlor		0.21	U	0.21	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	100		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 2130			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	106		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 2146			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.33	J X	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	75		59 - 115
Decachlorobiphenyl	97		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8081A Organochlorine Pesticides (GC)

Method:	8081A	Analysis Batch: 280-58963		Instrument ID:	GCS_P1
Preparation:	3550C	Prep Batch: 280-58319		Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Date Analyzed:	03/21/2011 2203			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1435			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.8
4;4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.27	U	0.27	1.8
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		59 - 115
Decachlorobiphenyl	101		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1347			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	17
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		4.9	U	4.9	11
Aroclor 1248		4.9	U	4.9	11
Aroclor 1254		2.7	U	2.7	11
Aroclor 1260		2.7	U	2.7	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1451			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	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	85		59 - 130
Tetrachloro-m-xylene	88		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid

% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	32.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1512			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	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	Qualifier	Acceptance Limits
Decachlorobiphenyl	86		59 - 130
Tetrachloro-m-xylene	77		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1534			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			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		4.7	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	84		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1617			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			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	65		59 - 130
Tetrachloro-m-xylene	79		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58988		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/22/2011 1909			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	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		15		2.6	10
Aroclor 1260		10		2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid
% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58988		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/22/2011 1930			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.0	U	3.0	11
Aroclor 1221		8.6	U	8.6	18
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		5.0	U	5.0	11
Aroclor 1248		5.0	U	5.0	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	76		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58988		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/22/2011 1952			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	17
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		4.9	U	4.9	11
Aroclor 1248		4.9	U	4.9	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	72		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1743			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	17
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		4.9	U	4.9	11
Aroclor 1248		4.9	U	4.9	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	84		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/21/2011 1804
Date Prepared: 03/18/2011 1736

Analysis Batch: 280-58986
Prep Batch: 280-58340

Instrument ID: GCS_P3
Initial Weight/Volume: 31.3 g
Final Weight/Volume: 5000 uL
Injection Volume: 1 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	18
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		5.0	U	5.0	11
Aroclor 1248		5.0	U	5.0	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	32.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1826			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	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	Qualifier	Acceptance Limits
Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1847			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			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	84		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58988		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/22/2011 2013			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			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		4.7	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	84		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-58986		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-58340		Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/21/2011 1930			Injection Volume:	1 uL
Date Prepared:	03/18/2011 1736			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	84		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	013B1301.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 1544			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		6500		1100	4200
C10-C28		3200	J	720	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	94		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	016B1601.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 1709			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4000
C10-C28		690	U	690	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	90		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid

% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	017B1701.D
Dilution:	1.0			Initial Weight/Volume:	32.6 g
Date Analyzed:	03/21/2011 1737			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	940	U	940	3800
C10-C28	640	U	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	90		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	018B1801.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Date Analyzed:	03/21/2011 1805			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	1000	U	1000	4100
C10-C28	690	U	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	91		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	019B1901.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Date Analyzed:	03/21/2011 1833			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		15000		1000	4100
C10-C28		6900		690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	102		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	020B2001.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Date Analyzed:	03/21/2011 1901			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		41000		1000	4200
C10-C28		11000		710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	88		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid

% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	022B2201.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Date Analyzed:	03/21/2011 1956			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	30000		1100	4300
C10-C28	8500		720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	100		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	023B2301.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 2024			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		35000		1100	4200
C10-C28		9500		720	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	81		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	024B2401.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Date Analyzed:	03/21/2011 2052			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		12000		1000	4100
C10-C28		7100		690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	109		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	025B2501.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Date Analyzed:	03/21/2011 2119			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7700		1100	4400
C10-C28		4400		740	4400

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	96		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	026B2601.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 2147			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	2100	J	1000	4100
C10-C28	820	J	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	100		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	027B2701.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 2215			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4100
C10-C28		690	U	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	91		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	028B2801.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Date Analyzed:	03/21/2011 2242			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8800		1000	4100
C10-C28		4000	J	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	91		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-58713		Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-58294		Lab File ID:	029B2901.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Date Analyzed:	03/21/2011 2310			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	5700		1000	4100
C10-C28	2200	J	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	91		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58312		Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/22/2011 0719			Injection Volume:	20 uL
Date Prepared:	03/18/2011 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		18		3.3	15
Benzo[a]pyrene		17		6.6	15
Benzo[b]fluoranthene		18		4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		9.2	J	4.1	15
Chrysene		16	J	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		14	J	12	31
Naphthalene		12	U	12	100
Phenanthrene		15	J	12	41
Pyrene		34	J	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 0750
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 30.2 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
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)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid

% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 0922
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 30.0 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		27	J	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.8	J	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)	91		72 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 0952
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 32.1 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.8	U	8.8	97
Anthracene		3.5	J	3.0	19
Benzo[a]anthracene		25	X	3.1	15
Benzo[a]pyrene		17		6.2	15
Benzo[b]fluoranthene		20		4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		11	J X	3.8	15
Chrysene		27	J	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		45		13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	J	12	29
Naphthalene		12	U	12	97
Phenanthrene		13	J	12	39
Pyrene		54		12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	93		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1023
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 32.1 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.7	U	8.7	97
Anthracene		87		3.0	19
Benzo[a]anthracene		230		3.1	15
Benzo[a]pyrene		170		6.2	15
Benzo[b]fluoranthene		190		4.1	15
Benzo[g,h,i]perylene		96		7.0	29
Benzo[k]fluoranthene		87		3.8	15
Chrysene		160		4.7	39
Dibenzo(a,h)anthracene		26	J X	11	29
Fluoranthene		400		13	39
Fluorene		57		5.1	29
Indeno[1,2,3-cd]pyrene		120		12	29
Naphthalene		12	U	12	97
Phenanthrene		240		12	39
Pyrene		400		12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	114		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/24/2011 1816
Date Prepared: 03/23/2011 1835

Analysis Batch: 280-59084
Prep Batch: 280-59020

Instrument ID: CHHPLC_G
Initial Weight/Volume: 32.5 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.7	U	8.7	97
Anthracene		3.0	U	3.0	19
Benzo[a]anthracene		19		3.1	15
Benzo[a]pyrene		22		6.2	15
Benzo[b]fluoranthene		25		4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		9.8	J	3.8	15
Chrysene		21	J	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		17	J X	13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		16	J	12	29
Naphthalene		12	U	12	97
Phenanthrene		12	U	12	39
Pyrene		30	J	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	90		72 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid

% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1154
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 31.3 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
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		21		3.3	15
Benzo[a]pyrene		27		6.6	15
Benzo[b]fluoranthene		20		4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		10	J	4.1	15
Chrysene		24	J	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		21	J	12	31
Naphthalene		12	U	12	100
Phenanthrene		19	J	12	41
Pyrene		51		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	91		72 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1225
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 31.9 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

DryWt Corrected: Y

Analyte	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	22		3.2	15
Benzo[a]pyrene	37		6.5	15
Benzo[b]fluoranthene	20		4.2	15
Benzo[g,h,i]perylene	7.3	U	7.3	30
Benzo[k]fluoranthene	8.9	J	4.0	15
Chrysene	26	J	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	17	J	12	30
Naphthalene	12	U	12	100
Phenanthrene	17	J	12	40
Pyrene	54		12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	93		72 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1255
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 31.3 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

DryWt Corrected: Y

Analyte	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	31		3.3	15
Benzo[a]pyrene	25		6.6	15
Benzo[b]fluoranthene	21		4.3	15
Benzo[g,h,i]perylene	7.4	U	7.4	31
Benzo[k]fluoranthene	9.7	J	4.0	15
Chrysene	29	J	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	20	J	12	31
Naphthalene	12	U	12	100
Phenanthrene	32	J	12	41
Pyrene	70		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1326
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 30.7 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.7	U	9.7	110
Anthracene		3.3	U	3.3	22
Benzo[a]anthracene		8.9	J	3.5	16
Benzo[a]pyrene		9.6	J	6.9	16
Benzo[b]fluoranthene		4.5	U	4.5	16
Benzo[g,h,i]perylene		7.8	U	7.8	32
Benzo[k]fluoranthene		4.3	U	4.3	16
Chrysene		8.7	J	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	43
Fluorene		5.7	U	5.7	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	43
Pyrene		21	J	13	43

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1356
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 31.7 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
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		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	U	3.8	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1427
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 30.3 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
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	41
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1458
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 30.8 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
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		44		3.3	16
Benzo[a]pyrene		27		6.6	16
Benzo[b]fluoranthene		37		4.3	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		14	J	4.1	16
Chrysene		35	J	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		27	J	12	31
Naphthalene		12	U	12	100
Phenanthrene		14	J	12	41
Pyrene		65		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 1528
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312

Instrument ID: CHHPLC_G
Initial Weight/Volume: 32.5 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.6	U	8.6	96
Anthracene		48		2.9	19
Benzo[a]anthracene		170		3.1	14
Benzo[a]pyrene		120		6.2	14
Benzo[b]fluoranthene		140		4.0	14
Benzo[g,h,i]perylene		38	X	6.9	29
Benzo[k]fluoranthene		69		3.8	14
Chrysene		140		4.6	38
Dibenzo(a,h)anthracene		19	J X	11	29
Fluoranthene		290		12	38
Fluorene		31		5.1	29
Indeno[1,2,3-cd]pyrene		110		12	29
Naphthalene		12	U	12	96
Phenanthrene		130		12	38
Pyrene		300		12	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	105		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1838
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6320	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		6.5		0.63	0.96
Barium		49.8	X	0.073	0.48
Beryllium		0.12	B	0.032	0.19
Boron		1.3	B	0.94	1.9
Cadmium		0.064	B	0.039	0.19
Calcium		5160	X	13.6	48.1
Chromium		10.6	X	0.056	0.19
Cobalt		6.1	X	0.096	0.96
Copper		13.6		0.21	0.96
Iron		15500	X	3.7	4.8
Lead		17.9	X	0.26	0.48
Magnesium		3990	X	3.6	19.2
Manganese		253	X	0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		10.3	X	0.12	3.8
Potassium		917		39.4	288
Selenium		0.83	U	0.83	0.96
Silicon		224	N	5.4	9.6
Silver		0.15	U	0.15	0.19
Vanadium		42.1		0.090	1.9
Zinc		34.3	X	0.38	0.96
Sodium		235		56.7	115

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1650
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.67 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: J1FKL7

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1847
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.17 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	5400	X	1.4	4.4
Antimony	0.34	U	0.34	0.53
Arsenic	2.2		0.59	0.89
Barium	36.4	X	0.067	0.44
Beryllium	0.089	B	0.029	0.18
Boron	0.88	B	0.87	1.8
Cadmium	0.043	B	0.036	0.18
Calcium	5780	X	12.5	44.4
Chromium	9.2	X	0.051	0.18
Cobalt	4.9	X	0.089	0.89
Copper	11.3		0.19	0.89
Iron	13000	X	3.4	4.4
Lead	2.0	X	0.24	0.44
Magnesium	3940	X	3.3	17.7
Manganese	218	X	0.089	0.89
Molybdenum	0.23	U	0.23	1.8
Nickel	9.4	X	0.11	3.5
Potassium	650		36.4	266
Selenium	0.76	U	0.76	0.89
Silicon	153	N	5.0	8.9
Silver	0.14	U	0.14	0.18
Vanadium	36.8		0.083	1.8
Zinc	26.4	X	0.35	0.89
Sodium	190		52.3	106

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1653
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0056	U	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid

% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1859
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.06 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	5490	X	1.5	4.9
Antimony	0.37	U	0.37	0.58
Arsenic	1.7		0.64	0.97
Barium	33.5	X	0.074	0.49
Beryllium	0.079	B	0.032	0.19
Boron	0.95	U	0.95	1.9
Cadmium	0.049	B	0.040	0.19
Calcium	5380	X	13.7	48.5
Chromium	9.4	X	0.056	0.19
Cobalt	5.2	X	0.097	0.97
Copper	12.1		0.21	0.97
Iron	13400	X	3.7	4.9
Lead	2.1	X	0.26	0.49
Magnesium	4010	X	3.6	19.4
Manganese	231	X	0.097	0.97
Molybdenum	0.25	U	0.25	1.9
Nickel	10.5	X	0.12	3.9
Potassium	612		39.8	291
Selenium	0.83	U	0.83	0.97
Silicon	154	N	5.5	9.7
Silver	0.16	U	0.16	0.19
Vanadium	38.4		0.091	1.9
Zinc	27.9	X	0.39	0.97
Sodium	180		57.3	116

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1700
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0056	U	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1901
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.20 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4220	X	1.3	4.3
Antimony		0.33	U	0.33	0.52
Arsenic		1.5		0.57	0.87
Barium		37.3	X	0.066	0.43
Beryllium		0.069	B	0.029	0.17
Boron		0.85	U	0.85	1.7
Cadmium		0.077	B	0.036	0.17
Calcium		4860	X	12.2	43.3
Chromium		6.1	X	0.050	0.17
Cobalt		4.5	X	0.087	0.87
Copper		12.5		0.19	0.87
Iron		11300	X	3.3	4.3
Lead		2.3	X	0.23	0.43
Magnesium		2900	X	3.2	17.3
Manganese		182	X	0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		7.0	X	0.11	3.5
Potassium		487		35.5	260
Selenium		0.75	U	0.75	0.87
Silicon		144	N	4.9	8.7
Silver		0.14	U	0.14	0.17
Vanadium		36.4		0.081	1.7
Zinc		25.7	X	0.35	0.87
Sodium		184		51.2	104

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1702
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1903
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.18 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5420	X	1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		1.7		0.58	0.88
Barium		32.9	X	0.067	0.44
Beryllium		0.085	B	0.029	0.18
Boron		0.86	U	0.86	1.8
Cadmium		0.054	B	0.036	0.18
Calcium		5790	X	12.4	44.1
Chromium		8.8	X	0.051	0.18
Cobalt		4.9	X	0.088	0.88
Copper		12.3		0.19	0.88
Iron		12900	X	3.3	4.4
Lead		2.7	X	0.24	0.44
Magnesium		3760	X	3.3	17.6
Manganese		222	X	0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		8.3	X	0.11	3.5
Potassium		601		36.1	264
Selenium		0.76	U	0.76	0.88
Silicon		164	N	5.0	8.8
Silver		0.14	U	0.14	0.18
Vanadium		35.8		0.083	1.8
Zinc		28.4	X	0.35	0.88
Sodium		185		52.0	106

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1704
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1906
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.19 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6890	X	1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		7.8		0.58	0.88
Barium		88.8	X	0.067	0.44
Beryllium		0.15	B	0.029	0.18
Boron		6.9		0.87	1.8
Cadmium		0.15	B	0.036	0.18
Calcium		5800	X	12.4	44.1
Chromium		11.0	X	0.051	0.18
Cobalt		6.3	X	0.088	0.88
Copper		15.9		0.19	0.88
Iron		15600	X	3.4	4.4
Lead		30.7	X	0.24	0.44
Magnesium		4310	X	3.3	17.7
Manganese		254	X	0.088	0.88
Molybdenum		0.33	B	0.23	1.8
Nickel		10.8	X	0.11	3.5
Potassium		1150		36.2	265
Selenium		0.76	U	0.76	0.88
Silicon		306	N	5.0	8.8
Silver		0.14	U	0.14	0.18
Vanadium		41.1		0.083	1.8
Zinc		40.6	X	0.35	0.88
Sodium		287		52.1	106

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1707
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.62 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.013	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid

% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1908
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.20 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	6790	X	1.4	4.5
Antimony	0.34	U	0.34	0.54
Arsenic	9.1		0.59	0.90
Barium	60.5	X	0.068	0.45
Beryllium	0.15	B	0.030	0.18
Boron	2.1		0.88	1.8
Cadmium	0.11	B	0.037	0.18
Calcium	4130	X	12.7	44.9
Chromium	9.6	X	0.052	0.18
Cobalt	6.0	X	0.090	0.90
Copper	13.5		0.19	0.90
Iron	15000	X	3.4	4.5
Lead	35.3	X	0.24	0.45
Magnesium	3760	X	3.3	18.0
Manganese	252	X	0.090	0.90
Molybdenum	0.23	U	0.23	1.8
Nickel	9.5	X	0.11	3.6
Potassium	1180		36.8	269
Selenium	0.77	U	0.77	0.90
Silicon	246	N	5.1	9.0
Silver	0.14	U	0.14	0.18
Vanadium	36.1		0.084	1.8
Zinc	36.4	X	0.36	0.90
Sodium	190		53.0	108

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1709
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0080	B	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1910
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8050	X	1.6	5.2
Antimony		0.40	U	0.40	0.63
Arsenic		14.1		0.69	1.0
Barium		126	X	0.079	0.52
Beryllium		0.17	B	0.034	0.21
Boron		1.7	B	1.0	2.1
Cadmium		0.12	B	0.043	0.21
Calcium		5220	X	14.7	52.2
Chromium		11.9	X	0.061	0.21
Cobalt		7.2	X	0.10	1.0
Copper		15.6		0.23	1.0
Iron		19000	X	4.0	5.2
Lead		70.5	X	0.28	0.52
Magnesium		4260	X	3.9	20.9
Manganese		300	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		11.2	X	0.13	4.2
Potassium		1430		42.8	313
Selenium		0.90	U	0.90	1.0
Silicon		269	N	5.9	10.4
Silver		0.17	U	0.17	0.21
Vanadium		46.4		0.098	2.1
Zinc		44.8	X	0.42	1.0
Sodium		226		61.6	125

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1711
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0083	B	0.0060	0.018

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid

% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1922
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7710	X	1.6	5.3
Antimony		0.40	U	0.40	0.63
Arsenic		6.7		0.70	1.1
Barium		68.3	X	0.080	0.53
Beryllium		0.10	B	0.035	0.21
Boron		1.2	B	1.0	2.1
Cadmium		0.10	B	0.043	0.21
Calcium		12100	X	14.9	52.9
Chromium		10.5	X	0.061	0.21
Cobalt		7.2	X	0.11	1.1
Copper		17.0		0.23	1.1
Iron		20400	X	4.0	5.3
Lead		20.0	X	0.29	0.53
Magnesium		4790	X	3.9	21.2
Manganese		286	X	0.11	1.1
Molybdenum		0.28	U	0.28	2.1
Nickel		9.7	X	0.13	4.2
Potassium		1190		43.4	317
Selenium		0.91	U	0.91	1.1
Silicon		221	N	6.0	10.6
Silver		0.17	U	0.17	0.21
Vanadium		59.2		0.099	2.1
Zinc		44.6	X	0.42	1.1
Sodium		292		62.4	127

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1714
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1924
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.10 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9590	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		12.2		0.67	1.0
Barium		82.9	X	0.077	0.50
Beryllium		0.22		0.033	0.20
Boron		1.4	B	0.99	2.0
Cadmium		0.14	B	0.041	0.20
Calcium		4170	X	14.2	50.4
Chromium		13.1	X	0.058	0.20
Cobalt		7.9	X	0.10	1.0
Copper		14.9		0.22	1.0
Iron		19900	X	3.8	5.0
Lead		32.7	X	0.27	0.50
Magnesium		4600	X	3.7	20.2
Manganese		362	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.8	X	0.12	4.0
Potassium		1750		41.3	302
Selenium		0.87	U	0.87	1.0
Silicon		359	N	5.7	10.1
Silver		0.16	U	0.16	0.20
Vanadium		45.4		0.095	2.0
Zinc		48.6	X	0.40	1.0
Sodium		230		59.5	121

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1716
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.69 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1927
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	6210	X	1.5	4.9
Antimony	0.37	U	0.37	0.59
Arsenic	3.4		0.65	0.98
Barium	40.6	X	0.075	0.49
Beryllium	0.047	B	0.032	0.20
Boron	0.96	U	0.96	2.0
Cadmium	0.059	B	0.040	0.20
Calcium	4320	X	13.9	49.2
Chromium	9.4	X	0.057	0.20
Cobalt	6.7	X	0.098	0.98
Copper	14.0		0.21	0.98
Iron	17700	X	3.7	4.9
Lead	5.5	X	0.27	0.49
Magnesium	3650	X	3.6	19.7
Manganese	230	X	0.098	0.98
Molybdenum	0.26	U	0.26	2.0
Nickel	10.2	X	0.12	3.9
Potassium	638		40.3	295
Selenium	0.85	U	0.85	0.98
Silicon	190	N	5.6	9.8
Silver	0.16	U	0.16	0.20
Vanadium	49.8		0.092	2.0
Zinc	32.8	X	0.39	0.98
Sodium	315		58.0	118

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1718
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: J1FKM7

Lab Sample ID: 280-13663-12
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1929
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.20 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4580	X	1.3	4.3
Antimony		0.33	U	0.33	0.51
Arsenic		2.2		0.56	0.86
Barium		43.0	X	0.065	0.43
Beryllium		0.028	B	0.028	0.17
Boron		0.84	U	0.84	1.7
Cadmium		0.077	B	0.035	0.17
Calcium		4910	X	12.1	42.8
Chromium		9.4	X	0.050	0.17
Cobalt		6.8	X	0.086	0.86
Copper		12.9		0.19	0.86
Iron		18100	X	3.3	4.3
Lead		2.3	X	0.23	0.43
Magnesium		3370	X	3.2	17.1
Manganese		241	X	0.086	0.86
Molybdenum		0.22	U	0.22	1.7
Nickel		8.0	X	0.11	3.4
Potassium		509		35.1	257
Selenium		0.74	U	0.74	0.86
Silicon		167	N	4.8	8.6
Silver		0.14	U	0.14	0.17
Vanadium		53.3		0.080	1.7
Zinc		32.9	X	0.34	0.86
Sodium		268		50.5	103

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1720
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1932
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.18 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7770	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		14.2		0.59	0.90
Barium		72.5	X	0.068	0.45
Beryllium		0.16	B	0.030	0.18
Boron		1.8		0.88	1.8
Cadmium		0.12	B	0.037	0.18
Calcium		4960	X	12.7	45.0
Chromium		11.6	X	0.052	0.18
Cobalt		6.8	X	0.090	0.90
Copper		14.0		0.20	0.90
Iron		18000	X	3.4	4.5
Lead		58.5	X	0.24	0.45
Magnesium		4100	X	3.3	18.0
Manganese		294	X	0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		10.6	X	0.11	3.6
Potassium		1310		36.9	270
Selenium		0.77	U	0.77	0.90
Silicon		242	N	5.1	9.0
Silver		0.14	U	0.14	0.18
Vanadium		45.8		0.085	1.8
Zinc		43.5	X	0.36	0.90
Sodium		208		53.1	108

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1727
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B N	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1934
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	5260	X	1.6	5.2
Antimony	0.40	U	0.40	0.62
Arsenic	2.1		0.69	1.0
Barium	36.4	X	0.079	0.52
Beryllium	0.074	B	0.034	0.21
Boron	1.0	U	1.0	2.1
Cadmium	0.079	B	0.043	0.21
Calcium	5660	X	14.7	52.0
Chromium	9.6	X	0.060	0.21
Cobalt	5.1	X	0.10	1.0
Copper	11.4		0.23	1.0
Iron	13100	X	4.0	5.2
Lead	2.4	X	0.28	0.52
Magnesium	4040	X	3.8	20.8
Manganese	225	X	0.10	1.0
Molybdenum	0.27	U	0.27	2.1
Nickel	10.3	X	0.13	4.2
Potassium	689		42.6	312
Selenium	0.89	U	0.89	1.0
Silicon	195	N	5.9	10.4
Silver	0.17	U	0.17	0.21
Vanadium	38.0		0.098	2.1
Zinc	28.1	X	0.41	1.0
Sodium	203		61.4	125

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1734
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0052	U	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Client Sample ID: **J1FKN0**

Lab Sample ID: 280-13663-15
Client Matrix: Solid

% Moisture: 0.1

Date Sampled: 03/17/2011 0805
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1937
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.16 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	239	X	1.3	4.3
Antimony	0.33	U	0.33	0.52
Arsenic	0.57	U	0.57	0.86
Barium	10.3	X	0.066	0.43
Beryllium	0.091	B	0.028	0.17
Boron	0.85	U	0.85	1.7
Cadmium	0.035	U	0.035	0.17
Calcium	56.6	X C	12.2	43.2
Chromium	0.29	X	0.050	0.17
Cobalt	1.4	X	0.086	0.86
Copper	0.33	B	0.19	0.86
Iron	1920	X	3.3	4.3
Lead	1.5	X	0.23	0.43
Magnesium	29.6	X	3.2	17.3
Manganese	111	X	0.086	0.86
Molybdenum	0.22	U	0.22	1.7
Nickel	0.40	B X	0.11	3.5
Potassium	58.7	B	35.4	259
Selenium	0.74	U	0.74	0.86
Silicon	90.8	N	4.9	8.6
Silver	0.14	U	0.14	0.17
Vanadium	0.69	B	0.081	1.7
Zinc	4.8	X	0.34	0.86
Sodium	50.9	U	50.9	104

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1737
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0054	U	0.0054	0.017

General Chemistry

Client Sample ID: **J1FKL6**

Lab Sample ID: 280-13663-1
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/17/2011 0810
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.79	B	mg/Kg	0.38	0.80	1.0	353.2
Analysis Batch: 280-58815		Date Analyzed: 03/22/2011 1310					DryWt Corrected: Y
Chloride-Soluble	2.8	B	mg/Kg	2.1	5.3	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1508					DryWt Corrected: Y
Nitrate as N-Soluble	0.96	B	mg/Kg	0.33	2.7	1.0	9056M
Analysis Batch: 280-58958		Date Analyzed: 03/21/2011 1508					DryWt Corrected: Y
Bromide-Soluble	0.41	U	mg/Kg	0.41	2.1	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1508					DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.7	1.0	9056M
Analysis Batch: 280-58958		Date Analyzed: 03/21/2011 1508					DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.3	1.0	9056M
Analysis Batch: 280-58958		Date Analyzed: 03/21/2011 1508					DryWt Corrected: Y
Sulfate-Soluble	6.9		mg/Kg	1.8	5.3	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1508					DryWt Corrected: Y
Fluoride-Soluble	1.1	B	mg/Kg	0.88	5.3	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1508					DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.48		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416		Date Analyzed: 03/19/2011 0953					DryWt Corrected: N
Percent Moisture	6.3		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306		Date Analyzed: 03/18/2011 1417					DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKL7**

Lab Sample ID: 280-13663-2
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 03/17/2011 0830
Date Received: 03/18/2011 0930

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: 280-58815	Date Analyzed: 03/22/2011 1314						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1600						DryWt Corrected: Y
Nitrate as N-Soluble	0.35	B	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1600						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1600						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1600						DryWt Corrected: Y
Orthophosphate as P-Soluble	2.5	B	mg/Kg	1.2	5.0	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1600						DryWt Corrected: Y
Sulfate-Soluble	2.1	B	mg/Kg	1.7	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1600						DryWt Corrected: Y
Fluoride-Soluble	0.83	U	mg/Kg	0.83	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1600						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.58		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 0956						DryWt Corrected: N
Percent Moisture	3.6		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKL8**

Lab Sample ID: 280-13663-3
Client Matrix: Solid

% Moisture: 2.8

Date Sampled: 03/17/2011 0835
Date Received: 03/18/2011 0930

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: 280-58815	Date Analyzed: 03/22/2011 1316						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1617						DryWt Corrected: Y
Nitrate as N-Soluble	0.36	B	mg/Kg	0.31	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1617						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1617						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1617						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.2	U	mg/Kg	1.2	5.0	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1617						DryWt Corrected: Y
Sulfate-Soluble	1.7	U	mg/Kg	1.7	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1617						DryWt Corrected: Y
Fluoride-Soluble	0.82	U	mg/Kg	0.82	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1617						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.44		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1000						DryWt Corrected: N
Percent Moisture	2.8		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKL9**

Lab Sample ID: 280-13663-4
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 03/17/2011 0840
Date Received: 03/18/2011 0930

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: 280-58815	Date Analyzed: 03/22/2011 1317						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1634						DryWt Corrected: Y
Nitrate as N-Soluble	0.36	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1634						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1634						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1634						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1634						DryWt Corrected: Y
Sulfate-Soluble	2.0	B	mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1634						DryWt Corrected: Y
Fluoride-Soluble	0.85	U	mg/Kg	0.85	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1634						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.66		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1001						DryWt Corrected: N
Percent Moisture	3.9		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKM0**

Lab Sample ID: 280-13663-5
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

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: 280-58815	Date Analyzed: 03/22/2011 1319						DryWt Corrected: Y
Chloride-Soluble	1.9	U	mg/Kg	1.9	4.9	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1652						DryWt Corrected: Y
Nitrate as N-Soluble	0.43	B	mg/Kg	0.31	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1652						DryWt Corrected: Y
Bromide-Soluble	0.38	U	mg/Kg	0.38	2.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1652						DryWt Corrected: Y
Nitrite as N-Soluble	0.33	U	mg/Kg	0.33	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1652						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.2	U	mg/Kg	1.2	4.9	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1652						DryWt Corrected: Y
Sulfate-Soluble	1.7	B	mg/Kg	1.7	4.9	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1652						DryWt Corrected: Y
Fluoride-Soluble	0.81	U	mg/Kg	0.81	4.9	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1652						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.60		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1005						DryWt Corrected: N
Percent Moisture	3.8		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

General Chemistry

Client Sample ID: **J1FKM1**

Lab Sample ID: 280-13663-6
Client Matrix: Solid

% Moisture: 4.8

Date Sampled: 03/17/2011 0935
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	39.9		mg/Kg	0.37	0.77	1.0	353.2
Analysis Batch: 280-58815	Date Analyzed: 03/22/2011 1320						DryWt Corrected: Y
Chloride-Soluble	9.5		mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1709						DryWt Corrected: Y
Nitrate as N-Soluble	40.1		mg/Kg	0.33	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1709						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1709						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1709						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	B	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1709						DryWt Corrected: Y
Sulfate-Soluble	43.6		mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1709						DryWt Corrected: Y
Fluoride-Soluble	0.86	U	mg/Kg	0.86	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1709						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	8.87		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1007						DryWt Corrected: N
Percent Moisture	4.8		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

General Chemistry

Client Sample ID: **J1FKM2**

Lab Sample ID: 280-13663-7
Client Matrix: Solid

% Moisture: 7.2

Date Sampled: 03/17/2011 0940
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	50.9		mg/Kg	0.36	0.76	1.0	353.2
Analysis Batch: 280-58815		Date Analyzed: 03/22/2011 1331					DryWt Corrected: Y
Chloride-Soluble	6.4		mg/Kg	2.1	5.4	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1726					DryWt Corrected: Y
Nitrate as N-Soluble	44.8		mg/Kg	0.34	2.7	1.0	9056M
Analysis Batch: 280-58958		Date Analyzed: 03/21/2011 1726					DryWt Corrected: Y
Bromide-Soluble	0.42	U	mg/Kg	0.42	2.2	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1726					DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.7	1.0	9056M
Analysis Batch: 280-58958		Date Analyzed: 03/21/2011 1726					DryWt Corrected: Y
Orthophosphate as P-Soluble	1.9	B	mg/Kg	1.3	5.4	1.0	9056M
Analysis Batch: 280-58958		Date Analyzed: 03/21/2011 1726					DryWt Corrected: Y
Sulfate-Soluble	18.2		mg/Kg	1.9	5.4	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1726					DryWt Corrected: Y
Fluoride-Soluble	0.95	B	mg/Kg	0.89	5.4	1.0	9056M
Analysis Batch: 280-58960		Date Analyzed: 03/21/2011 1726					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: 280-58416		Date Analyzed: 03/19/2011 1011					DryWt Corrected: N
Percent Moisture	7.2		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306		Date Analyzed: 03/18/2011 1417					DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

General Chemistry

Client Sample ID: **J1FKM3**

Lab Sample ID: 280-13663-8
Client Matrix: Solid

% Moisture: 7.1

Date Sampled: 03/17/2011 0945
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.43	B	mg/Kg	0.38	0.79	1.0	353.2
Analysis Batch: 280-58815	Date Analyzed: 03/22/2011 1332						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1744						DryWt Corrected: Y
Nitrate as N-Soluble	0.61	B	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1744						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1744						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1744						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.7	B	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1744						DryWt Corrected: Y
Sulfate-Soluble	2.0	B	mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1744						DryWt Corrected: Y
Fluoride-Soluble	1.1	B	mg/Kg	0.83	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1744						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.17		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1014						DryWt Corrected: N
Percent Moisture	7.1		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKM4**

Lab Sample ID: 280-13663-9
Client Matrix: Solid
% Moisture: 6.4

Date Sampled: 03/17/2011 1010
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.85		mg/Kg	0.38	0.79	1.0	353.2
Analysis Batch: 280-58815	Date Analyzed: 03/22/2011 1334						DryWt Corrected: Y
Chloride-Soluble	2.1	U	mg/Kg	2.1	5.3	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1836						DryWt Corrected: Y
Nitrate as N-Soluble	0.94	B	mg/Kg	0.33	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1836						DryWt Corrected: Y
Bromide-Soluble	0.41	U	mg/Kg	0.41	2.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1836						DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1836						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.3	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1836						DryWt Corrected: Y
Sulfate-Soluble	55.6		mg/Kg	1.8	5.3	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1836						DryWt Corrected: Y
Fluoride-Soluble	1.8	B	mg/Kg	0.87	5.3	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1836						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.26		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1025						DryWt Corrected: N
Percent Moisture	6.4		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKM5**

Lab Sample ID: 280-13663-10
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 03/17/2011 1005
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.46	B	mg/Kg	0.40	0.83	1.0	353.2
Analysis Batch: 280-58815	Date Analyzed: 03/22/2011 1335						DryWt Corrected: Y
Chloride-Soluble	2.2	U	mg/Kg	2.2	5.5	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1853						DryWt Corrected: Y
Nitrate as N-Soluble	0.55	B	mg/Kg	0.35	2.8	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1853						DryWt Corrected: Y
Bromide-Soluble	0.43	U	mg/Kg	0.43	2.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1853						DryWt Corrected: Y
Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	2.8	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1853						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.8	B	mg/Kg	1.4	5.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1853						DryWt Corrected: Y
Sulfate-Soluble	2.8	B	mg/Kg	1.9	5.5	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1853						DryWt Corrected: Y
Fluoride-Soluble	0.96	B	mg/Kg	0.91	5.5	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1853						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.09		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1028						DryWt Corrected: N
Percent Moisture	9.8		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKM6**

Lab Sample ID: 280-13663-11
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 03/17/2011 0950
Date Received: 03/18/2011 0930

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: 280-58815	Date Analyzed: 03/22/2011 1340						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1910						DryWt Corrected: Y
Nitrate as N-Soluble	0.41	B	mg/Kg	0.31	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1910						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1910						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1910						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.2	U	mg/Kg	1.2	5.0	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1910						DryWt Corrected: Y
Sulfate-Soluble	5.4		mg/Kg	1.7	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1910						DryWt Corrected: Y
Fluoride-Soluble	0.88	B	mg/Kg	0.82	5.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1910						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.45		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1030						DryWt Corrected: N
Percent Moisture	3.1		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKM7**

Lab Sample ID: 280-13663-12
Client Matrix: Solid

% Moisture: 2.6

Date Sampled: 03/17/2011 1000
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	1.1		mg/Kg	0.36	0.75	1.0	353.2
Analysis Batch: 280-58815	Date Analyzed: 03/22/2011 1341						DryWt Corrected: Y
Chloride-Soluble	5.0	B	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1927						DryWt Corrected: Y
Nitrate as N-Soluble	1.1	B	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1927						DryWt Corrected: Y
Bromide-Soluble	0.39	U	mg/Kg	0.39	2.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1927						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1927						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1927						DryWt Corrected: Y
Sulfate-Soluble	9.1		mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1927						DryWt Corrected: Y
Fluoride-Soluble	1.1	B	mg/Kg	0.84	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1927						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.42		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1033						DryWt Corrected: N
Percent Moisture	2.6		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

General Chemistry

Client Sample ID: **J1FKM8**

Lab Sample ID: 280-13663-13
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 03/17/2011 0955
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.62	B	mg/Kg	0.38	0.80	1.0	353.2
Analysis Batch: 280-58815	Date Analyzed: 03/22/2011 1343						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1945						DryWt Corrected: Y
Nitrate as N-Soluble	0.76	B	mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1945						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1945						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1945						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.7	B	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 1945						DryWt Corrected: Y
Sulfate-Soluble	3.3	B	mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1945						DryWt Corrected: Y
Fluoride-Soluble	0.97	B	mg/Kg	0.85	5.2	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 1945						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.31		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1035						DryWt Corrected: N
Percent Moisture	5.9		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

General Chemistry

Client Sample ID: **J1FKM9**

Lab Sample ID: 280-13663-14
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 03/17/2011 0850
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.37	U	mg/Kg	0.37	0.76	1.0	353.2
Analysis Batch: 280-58815	Date Analyzed: 03/22/2011 1344						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 2002						DryWt Corrected: Y
Nitrate as N-Soluble	0.41	B	mg/Kg	0.32	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 2002						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.0	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 2002						DryWt Corrected: Y
Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	2.5	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 2002						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.1	1.0	9056M
Analysis Batch: 280-58958	Date Analyzed: 03/21/2011 2002						DryWt Corrected: Y
Sulfate-Soluble	1.9	B	mg/Kg	1.8	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 2002						DryWt Corrected: Y
Fluoride-Soluble	0.84	U	mg/Kg	0.84	5.1	1.0	9056M
Analysis Batch: 280-58960	Date Analyzed: 03/21/2011 2002						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.55		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-58416	Date Analyzed: 03/19/2011 1036						DryWt Corrected: N
Percent Moisture	3.9		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-58306	Date Analyzed: 03/18/2011 1417						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

General Chemistry

Client Sample ID: **J1FKN0**

Lab Sample ID: 280-13663-15
Client Matrix: Solid

Date Sampled: 03/17/2011 0805
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.12		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58281 Date Analyzed: 03/18/2011 1313 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-58311					
LCS 280-58311/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-58311/1-A	Method Blank	T	Solid	3550C	
280-13663-1	J1FKL6	T	Solid	3550C	
280-13663-2	J1FKL7	T	Solid	3550C	
280-13663-2MS	Matrix Spike	T	Solid	3550C	
280-13663-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13663-3	J1FKL8	T	Solid	3550C	
280-13663-4	J1FKL9	T	Solid	3550C	
280-13663-5	J1FKM0	T	Solid	3550C	
280-13663-6	J1FKM1	T	Solid	3550C	
280-13663-7	J1FKM2	T	Solid	3550C	
280-13663-8	J1FKM3	T	Solid	3550C	
280-13663-9	J1FKM4	T	Solid	3550C	
280-13663-10	J1FKM5	T	Solid	3550C	
280-13663-11	J1FKM6	T	Solid	3550C	
280-13663-12	J1FKM7	T	Solid	3550C	
280-13663-13	J1FKM8	T	Solid	3550C	
280-13663-14	J1FKM9	T	Solid	3550C	
280-13663-15	J1FKN0	T	Solid	3550C	
Analysis Batch:280-58674					
LCS 280-58311/2-A	Lab Control Sample	T	Solid	8270C	280-58311
MB 280-58311/1-A	Method Blank	T	Solid	8270C	280-58311
280-13663-1	J1FKL6	T	Solid	8270C	280-58311
280-13663-2	J1FKL7	T	Solid	8270C	280-58311
280-13663-2MS	Matrix Spike	T	Solid	8270C	280-58311
280-13663-2MSD	Matrix Spike Duplicate	T	Solid	8270C	280-58311
280-13663-3	J1FKL8	T	Solid	8270C	280-58311
280-13663-4	J1FKL9	T	Solid	8270C	280-58311
280-13663-5	J1FKM0	T	Solid	8270C	280-58311
280-13663-6	J1FKM1	T	Solid	8270C	280-58311
280-13663-7	J1FKM2	T	Solid	8270C	280-58311
280-13663-8	J1FKM3	T	Solid	8270C	280-58311
280-13663-9	J1FKM4	T	Solid	8270C	280-58311
280-13663-10	J1FKM5	T	Solid	8270C	280-58311
280-13663-11	J1FKM6	T	Solid	8270C	280-58311
280-13663-12	J1FKM7	T	Solid	8270C	280-58311
280-13663-13	J1FKM8	T	Solid	8270C	280-58311
280-13663-14	J1FKM9	T	Solid	8270C	280-58311
280-13663-15	J1FKN0	T	Solid	8270C	280-58311

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-58294					
LCS 280-58294/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-58294/1-A	Method Blank	T	Solid	3550C	
280-13663-1	J1FKL6	T	Solid	3550C	
280-13663-1MS	Matrix Spike	T	Solid	3550C	
280-13663-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13663-2	J1FKL7	T	Solid	3550C	
280-13663-3	J1FKL8	T	Solid	3550C	
280-13663-4	J1FKL9	T	Solid	3550C	
280-13663-5	J1FKM0	T	Solid	3550C	
280-13663-6	J1FKM1	T	Solid	3550C	
280-13663-7	J1FKM2	T	Solid	3550C	
280-13663-8	J1FKM3	T	Solid	3550C	
280-13663-9	J1FKM4	T	Solid	3550C	
280-13663-10	J1FKM5	T	Solid	3550C	
280-13663-11	J1FKM6	T	Solid	3550C	
280-13663-12	J1FKM7	T	Solid	3550C	
280-13663-13	J1FKM8	T	Solid	3550C	
280-13663-14	J1FKM9	T	Solid	3550C	
Prep Batch: 280-58319					
LCS 280-58319/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-58319/1-A	Method Blank	T	Solid	3550C	
280-13663-1	J1FKL6	T	Solid	3550C	
280-13663-2	J1FKL7	T	Solid	3550C	
280-13663-3	J1FKL8	T	Solid	3550C	
280-13663-4	J1FKL9	T	Solid	3550C	
280-13663-5	J1FKM0	T	Solid	3550C	
280-13663-6	J1FKM1	T	Solid	3550C	
280-13663-7	J1FKM2	T	Solid	3550C	
280-13663-7DL	J1FKM2	T	Solid	3550C	
280-13663-7MS	Matrix Spike	T	Solid	3550C	
280-13663-7MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13663-8	J1FKM3	T	Solid	3550C	
280-13663-9	J1FKM4	T	Solid	3550C	
280-13663-10	J1FKM5	T	Solid	3550C	
280-13663-11	J1FKM6	T	Solid	3550C	
280-13663-12	J1FKM7	T	Solid	3550C	
280-13663-13	J1FKM8	T	Solid	3550C	
280-13663-14	J1FKM9	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-58340					
LCS 280-58340/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-58340/1-A	Method Blank	T	Solid	3550C	
280-13663-1	J1FKL6	T	Solid	3550C	
280-13663-1MS	Matrix Spike	T	Solid	3550C	
280-13663-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13663-2	J1FKL7	T	Solid	3550C	
280-13663-3	J1FKL8	T	Solid	3550C	
280-13663-4	J1FKL9	T	Solid	3550C	
280-13663-5	J1FKM0	T	Solid	3550C	
280-13663-6	J1FKM1	T	Solid	3550C	
280-13663-7	J1FKM2	T	Solid	3550C	
280-13663-8	J1FKM3	T	Solid	3550C	
280-13663-9	J1FKM4	T	Solid	3550C	
280-13663-10	J1FKM5	T	Solid	3550C	
280-13663-11	J1FKM6	T	Solid	3550C	
280-13663-12	J1FKM7	T	Solid	3550C	
280-13663-13	J1FKM8	T	Solid	3550C	
280-13663-14	J1FKM9	T	Solid	3550C	
Analysis Batch:280-58713					
LCS 280-58294/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-58294
MB 280-58294/1-A	Method Blank	T	Solid	NWTPH-Dx	280-58294
280-13663-1	J1FKL6	T	Solid	NWTPH-Dx	280-58294
280-13663-1MS	Matrix Spike	T	Solid	NWTPH-Dx	280-58294
280-13663-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-58294
280-13663-2	J1FKL7	T	Solid	NWTPH-Dx	280-58294
280-13663-3	J1FKL8	T	Solid	NWTPH-Dx	280-58294
280-13663-4	J1FKL9	T	Solid	NWTPH-Dx	280-58294
280-13663-5	J1FKM0	T	Solid	NWTPH-Dx	280-58294
280-13663-6	J1FKM1	T	Solid	NWTPH-Dx	280-58294
280-13663-7	J1FKM2	T	Solid	NWTPH-Dx	280-58294
280-13663-8	J1FKM3	T	Solid	NWTPH-Dx	280-58294
280-13663-9	J1FKM4	T	Solid	NWTPH-Dx	280-58294
280-13663-10	J1FKM5	T	Solid	NWTPH-Dx	280-58294
280-13663-11	J1FKM6	T	Solid	NWTPH-Dx	280-58294
280-13663-12	J1FKM7	T	Solid	NWTPH-Dx	280-58294
280-13663-13	J1FKM8	T	Solid	NWTPH-Dx	280-58294
280-13663-14	J1FKM9	T	Solid	NWTPH-Dx	280-58294
Analysis Batch:280-58942					
280-13663-7DL	J1FKM2	T	Solid	8081A	280-58319

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-58963					
LCS 280-58319/2-A	Lab Control Sample	T	Solid	8081A	280-58319
MB 280-58319/1-A	Method Blank	T	Solid	8081A	280-58319
280-13663-1	J1FKL6	T	Solid	8081A	280-58319
280-13663-2	J1FKL7	T	Solid	8081A	280-58319
280-13663-3	J1FKL8	T	Solid	8081A	280-58319
280-13663-4	J1FKL9	T	Solid	8081A	280-58319
280-13663-5	J1FKM0	T	Solid	8081A	280-58319
280-13663-6	J1FKM1	T	Solid	8081A	280-58319
280-13663-7	J1FKM2	T	Solid	8081A	280-58319
280-13663-7MS	Matrix Spike	T	Solid	8081A	280-58319
280-13663-7MSD	Matrix Spike Duplicate	T	Solid	8081A	280-58319
280-13663-8	J1FKM3	T	Solid	8081A	280-58319
280-13663-9	J1FKM4	T	Solid	8081A	280-58319
280-13663-10	J1FKM5	T	Solid	8081A	280-58319
280-13663-11	J1FKM6	T	Solid	8081A	280-58319
280-13663-12	J1FKM7	T	Solid	8081A	280-58319
280-13663-13	J1FKM8	T	Solid	8081A	280-58319
280-13663-14	J1FKM9	T	Solid	8081A	280-58319
Analysis Batch:280-58986					
280-13663-1	J1FKL6	T	Solid	8082	280-58340
280-13663-1MS	Matrix Spike	T	Solid	8082	280-58340
280-13663-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-58340
280-13663-2	J1FKL7	T	Solid	8082	280-58340
280-13663-3	J1FKL8	T	Solid	8082	280-58340
280-13663-4	J1FKL9	T	Solid	8082	280-58340
280-13663-5	J1FKM0	T	Solid	8082	280-58340
280-13663-9	J1FKM4	T	Solid	8082	280-58340
280-13663-10	J1FKM5	T	Solid	8082	280-58340
280-13663-11	J1FKM6	T	Solid	8082	280-58340
280-13663-12	J1FKM7	T	Solid	8082	280-58340
280-13663-14	J1FKM9	T	Solid	8082	280-58340
Analysis Batch:280-58988					
LCS 280-58340/2-A	Lab Control Sample	T	Solid	8082	280-58340
MB 280-58340/1-A	Method Blank	T	Solid	8082	280-58340
280-13663-6	J1FKM1	T	Solid	8082	280-58340
280-13663-7	J1FKM2	T	Solid	8082	280-58340
280-13663-8	J1FKM3	T	Solid	8082	280-58340
280-13663-13	J1FKM8	T	Solid	8082	280-58340

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-58992					
LCS 280-58340/2-A	Lab Control Sample	T	Solid	8082	280-58340
MB 280-58340/1-A	Method Blank	T	Solid	8082	280-58340
280-13663-1	J1FKL6	T	Solid	8082	280-58340
280-13663-1MS	Matrix Spike	T	Solid	8082	280-58340
280-13663-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-58340
280-13663-6	J1FKM1	T	Solid	8082	280-58340
280-13663-7	J1FKM2	T	Solid	8082	280-58340
280-13663-8	J1FKM3	T	Solid	8082	280-58340
280-13663-13	J1FKM8	T	Solid	8082	280-58340

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-58304					
LCS 280-58304/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-58304/1-A	Method Blank	T	Solid	3050B	
280-13663-1	J1FKL6	T	Solid	3050B	
280-13663-1DU	Duplicate	T	Solid	3050B	
280-13663-1MS	Matrix Spike	T	Solid	3050B	
280-13663-2	J1FKL7	T	Solid	3050B	
280-13663-3	J1FKL8	T	Solid	3050B	
280-13663-4	J1FKL9	T	Solid	3050B	
280-13663-5	J1FKM0	T	Solid	3050B	
280-13663-6	J1FKM1	T	Solid	3050B	
280-13663-7	J1FKM2	T	Solid	3050B	
280-13663-8	J1FKM3	T	Solid	3050B	
280-13663-9	J1FKM4	T	Solid	3050B	
280-13663-10	J1FKM5	T	Solid	3050B	
280-13663-11	J1FKM6	T	Solid	3050B	
280-13663-12	J1FKM7	T	Solid	3050B	
280-13663-13	J1FKM8	T	Solid	3050B	
280-13663-14	J1FKM9	T	Solid	3050B	
280-13663-15	J1FKN0	T	Solid	3050B	
Prep Batch: 280-58354					
LCS 280-58354/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-58354/1-A	Method Blank	T	Solid	7471A	
280-13663-1	J1FKL6	T	Solid	7471A	
280-13663-2	J1FKL7	T	Solid	7471A	
280-13663-3	J1FKL8	T	Solid	7471A	
280-13663-4	J1FKL9	T	Solid	7471A	
280-13663-5	J1FKM0	T	Solid	7471A	
280-13663-6	J1FKM1	T	Solid	7471A	
280-13663-7	J1FKM2	T	Solid	7471A	
280-13663-8	J1FKM3	T	Solid	7471A	
280-13663-9	J1FKM4	T	Solid	7471A	
280-13663-10	J1FKM5	T	Solid	7471A	
280-13663-11	J1FKM6	T	Solid	7471A	
280-13663-12	J1FKM7	T	Solid	7471A	
280-13663-13	J1FKM8	T	Solid	7471A	
280-13663-13DU	Duplicate	T	Solid	7471A	
280-13663-13MS	Matrix Spike	T	Solid	7471A	
280-13663-14	J1FKM9	T	Solid	7471A	
280-13663-15	J1FKN0	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-58691					
LCS 280-58304/2-A	Lab Control Sample	T	Solid	6010B	280-58304
MB 280-58304/1-A	Method Blank	T	Solid	6010B	280-58304
280-13663-1	J1FKL6	T	Solid	6010B	280-58304
280-13663-1DU	Duplicate	T	Solid	6010B	280-58304
280-13663-1MS	Matrix Spike	T	Solid	6010B	280-58304
280-13663-2	J1FKL7	T	Solid	6010B	280-58304
280-13663-3	J1FKL8	T	Solid	6010B	280-58304
280-13663-4	J1FKL9	T	Solid	6010B	280-58304
280-13663-5	J1FKM0	T	Solid	6010B	280-58304
280-13663-6	J1FKM1	T	Solid	6010B	280-58304
280-13663-7	J1FKM2	T	Solid	6010B	280-58304
280-13663-8	J1FKM3	T	Solid	6010B	280-58304
280-13663-9	J1FKM4	T	Solid	6010B	280-58304
280-13663-10	J1FKM5	T	Solid	6010B	280-58304
280-13663-11	J1FKM6	T	Solid	6010B	280-58304
280-13663-12	J1FKM7	T	Solid	6010B	280-58304
280-13663-13	J1FKM8	T	Solid	6010B	280-58304
280-13663-14	J1FKM9	T	Solid	6010B	280-58304
280-13663-15	J1FKN0	T	Solid	6010B	280-58304
Analysis Batch:280-58997					
LCS 280-58354/2-A	Lab Control Sample	T	Solid	7471A	280-58354
MB 280-58354/1-A	Method Blank	T	Solid	7471A	280-58354
280-13663-1	J1FKL6	T	Solid	7471A	280-58354
280-13663-2	J1FKL7	T	Solid	7471A	280-58354
280-13663-3	J1FKL8	T	Solid	7471A	280-58354
280-13663-4	J1FKL9	T	Solid	7471A	280-58354
280-13663-5	J1FKM0	T	Solid	7471A	280-58354
280-13663-6	J1FKM1	T	Solid	7471A	280-58354
280-13663-7	J1FKM2	T	Solid	7471A	280-58354
280-13663-8	J1FKM3	T	Solid	7471A	280-58354
280-13663-9	J1FKM4	T	Solid	7471A	280-58354
280-13663-10	J1FKM5	T	Solid	7471A	280-58354
280-13663-11	J1FKM6	T	Solid	7471A	280-58354
280-13663-12	J1FKM7	T	Solid	7471A	280-58354
280-13663-13	J1FKM8	T	Solid	7471A	280-58354
280-13663-13DU	Duplicate	T	Solid	7471A	280-58354
280-13663-13MS	Matrix Spike	T	Solid	7471A	280-58354
280-13663-14	J1FKM9	T	Solid	7471A	280-58354
280-13663-15	J1FKN0	T	Solid	7471A	280-58354

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-58281					
280-13663-15	J1FKN0	T	Solid	D-2216	
Analysis Batch:280-58306					
280-13663-1	J1FKL6	T	Solid	D-2216	
280-13663-1DU	Duplicate	T	Solid	D-2216	
280-13663-2	J1FKL7	T	Solid	D-2216	
280-13663-3	J1FKL8	T	Solid	D-2216	
280-13663-4	J1FKL9	T	Solid	D-2216	
280-13663-5	J1FKM0	T	Solid	D-2216	
280-13663-6	J1FKM1	T	Solid	D-2216	
280-13663-7	J1FKM2	T	Solid	D-2216	
280-13663-8	J1FKM3	T	Solid	D-2216	
280-13663-9	J1FKM4	T	Solid	D-2216	
280-13663-10	J1FKM5	T	Solid	D-2216	
280-13663-11	J1FKM6	T	Solid	D-2216	
280-13663-12	J1FKM7	T	Solid	D-2216	
280-13663-13	J1FKM8	T	Solid	D-2216	
280-13663-14	J1FKM9	T	Solid	D-2216	
Prep Batch: 280-58398					
280-13663-1	J1FKL6	S	Solid	DI Leach	
280-13663-1DU	Duplicate	S	Solid	DI Leach	
280-13663-2	J1FKL7	S	Solid	DI Leach	
280-13663-3	J1FKL8	S	Solid	DI Leach	
280-13663-4	J1FKL9	S	Solid	DI Leach	
280-13663-5	J1FKM0	S	Solid	DI Leach	
280-13663-6	J1FKM1	S	Solid	DI Leach	
280-13663-7	J1FKM2	S	Solid	DI Leach	
280-13663-8	J1FKM3	S	Solid	DI Leach	
280-13663-9	J1FKM4	S	Solid	DI Leach	
280-13663-9DU	Duplicate	S	Solid	DI Leach	
280-13663-10	J1FKM5	S	Solid	DI Leach	
280-13663-11	J1FKM6	S	Solid	DI Leach	
280-13663-12	J1FKM7	S	Solid	DI Leach	
280-13663-13	J1FKM8	S	Solid	DI Leach	
280-13663-14	J1FKM9	S	Solid	DI Leach	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-58416					
LCS 280-58416/16	Lab Control Sample	T	Water	9045C	
LCS 280-58416/4	Lab Control Sample	T	Water	9045C	
LCSD 280-58416/17	Lab Control Sample Duplicate	T	Water	9045C	
LCSD 280-58416/5	Lab Control Sample Duplicate	T	Water	9045C	
280-13663-1	J1FKL6	S	Solid	9045C	
280-13663-1DU	Duplicate	S	Solid	9045C	
280-13663-2	J1FKL7	S	Solid	9045C	
280-13663-3	J1FKL8	S	Solid	9045C	
280-13663-4	J1FKL9	S	Solid	9045C	
280-13663-5	J1FKM0	S	Solid	9045C	
280-13663-6	J1FKM1	S	Solid	9045C	
280-13663-7	J1FKM2	S	Solid	9045C	
280-13663-8	J1FKM3	S	Solid	9045C	
280-13663-9	J1FKM4	S	Solid	9045C	
280-13663-9DU	Duplicate	S	Solid	9045C	
280-13663-10	J1FKM5	S	Solid	9045C	
280-13663-11	J1FKM6	S	Solid	9045C	
280-13663-12	J1FKM7	S	Solid	9045C	
280-13663-13	J1FKM8	S	Solid	9045C	
280-13663-14	J1FKM9	S	Solid	9045C	
Prep Batch: 280-58452					
LCS 280-58452/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-58452/1-A	Method Blank	S	Solid	DI Leach	
280-13663-1	J1FKL6	S	Solid	DI Leach	
280-13663-1DU	Duplicate	S	Solid	DI Leach	
280-13663-1MS	Matrix Spike	S	Solid	DI Leach	
280-13663-2	J1FKL7	S	Solid	DI Leach	
280-13663-3	J1FKL8	S	Solid	DI Leach	
280-13663-4	J1FKL9	S	Solid	DI Leach	
280-13663-5	J1FKM0	S	Solid	DI Leach	
280-13663-6	J1FKM1	S	Solid	DI Leach	
280-13663-7	J1FKM2	S	Solid	DI Leach	
280-13663-8	J1FKM3	S	Solid	DI Leach	
280-13663-9	J1FKM4	S	Solid	DI Leach	
280-13663-10	J1FKM5	S	Solid	DI Leach	
280-13663-11	J1FKM6	S	Solid	DI Leach	
280-13663-12	J1FKM7	S	Solid	DI Leach	
280-13663-13	J1FKM8	S	Solid	DI Leach	
280-13663-14	J1FKM9	S	Solid	DI Leach	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-58698					
LCS 280-58698/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-58698/1-A	Method Blank	S	Solid	DI Leach	
280-13663-1	J1FKL6	S	Solid	DI Leach	
280-13663-1DU	Duplicate	S	Solid	DI Leach	
280-13663-1MS	Matrix Spike	S	Solid	DI Leach	
280-13663-2	J1FKL7	S	Solid	DI Leach	
280-13663-3	J1FKL8	S	Solid	DI Leach	
280-13663-4	J1FKL9	S	Solid	DI Leach	
280-13663-5	J1FKM0	S	Solid	DI Leach	
280-13663-6	J1FKM1	S	Solid	DI Leach	
280-13663-7	J1FKM2	S	Solid	DI Leach	
280-13663-8	J1FKM3	S	Solid	DI Leach	
280-13663-9	J1FKM4	S	Solid	DI Leach	
280-13663-10	J1FKM5	S	Solid	DI Leach	
280-13663-10DU	Duplicate	S	Solid	DI Leach	
280-13663-10MS	Matrix Spike	S	Solid	DI Leach	
280-13663-11	J1FKM6	S	Solid	DI Leach	
280-13663-12	J1FKM7	S	Solid	DI Leach	
280-13663-13	J1FKM8	S	Solid	DI Leach	
280-13663-14	J1FKM9	S	Solid	DI Leach	
Analysis Batch:280-58815					
LCS 280-58698/2-A	Lab Control Sample	S	Solid	353.2	
MB 280-58698/1-A	Method Blank	S	Solid	353.2	
280-13663-1	J1FKL6	S	Solid	353.2	
280-13663-1DU	Duplicate	S	Solid	353.2	
280-13663-1MS	Matrix Spike	S	Solid	353.2	
280-13663-2	J1FKL7	S	Solid	353.2	
280-13663-3	J1FKL8	S	Solid	353.2	
280-13663-4	J1FKL9	S	Solid	353.2	
280-13663-5	J1FKM0	S	Solid	353.2	
280-13663-6	J1FKM1	S	Solid	353.2	
280-13663-7	J1FKM2	S	Solid	353.2	
280-13663-8	J1FKM3	S	Solid	353.2	
280-13663-9	J1FKM4	S	Solid	353.2	
280-13663-10	J1FKM5	S	Solid	353.2	
280-13663-10DU	Duplicate	S	Solid	353.2	
280-13663-10MS	Matrix Spike	S	Solid	353.2	
280-13663-11	J1FKM6	S	Solid	353.2	
280-13663-12	J1FKM7	S	Solid	353.2	
280-13663-13	J1FKM8	S	Solid	353.2	
280-13663-14	J1FKM9	S	Solid	353.2	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-58958					
LCS 280-58452/2-A	Lab Control Sample	S	Solid	9056M	
MB 280-58452/1-A	Method Blank	S	Solid	9056M	
280-13663-1	J1FKL6	S	Solid	9056M	
280-13663-1DU	Duplicate	S	Solid	9056M	
280-13663-1MS	Matrix Spike	S	Solid	9056M	
280-13663-2	J1FKL7	S	Solid	9056M	
280-13663-3	J1FKL8	S	Solid	9056M	
280-13663-4	J1FKL9	S	Solid	9056M	
280-13663-5	J1FKM0	S	Solid	9056M	
280-13663-6	J1FKM1	S	Solid	9056M	
280-13663-7	J1FKM2	S	Solid	9056M	
280-13663-8	J1FKM3	S	Solid	9056M	
280-13663-9	J1FKM4	S	Solid	9056M	
280-13663-10	J1FKM5	S	Solid	9056M	
280-13663-11	J1FKM6	S	Solid	9056M	
280-13663-12	J1FKM7	S	Solid	9056M	
280-13663-13	J1FKM8	S	Solid	9056M	
280-13663-14	J1FKM9	S	Solid	9056M	
Analysis Batch:280-58960					
LCS 280-58452/2-A	Lab Control Sample	S	Solid	9056M	
MB 280-58452/1-A	Method Blank	S	Solid	9056M	
280-13663-1	J1FKL6	S	Solid	9056M	
280-13663-1DU	Duplicate	S	Solid	9056M	
280-13663-1MS	Matrix Spike	S	Solid	9056M	
280-13663-2	J1FKL7	S	Solid	9056M	
280-13663-3	J1FKL8	S	Solid	9056M	
280-13663-4	J1FKL9	S	Solid	9056M	
280-13663-5	J1FKM0	S	Solid	9056M	
280-13663-6	J1FKM1	S	Solid	9056M	
280-13663-7	J1FKM2	S	Solid	9056M	
280-13663-8	J1FKM3	S	Solid	9056M	
280-13663-9	J1FKM4	S	Solid	9056M	
280-13663-10	J1FKM5	S	Solid	9056M	
280-13663-11	J1FKM6	S	Solid	9056M	
280-13663-12	J1FKM7	S	Solid	9056M	
280-13663-13	J1FKM8	S	Solid	9056M	
280-13663-14	J1FKM9	S	Solid	9056M	

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-58312					
LCS 280-58312/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-58312/1-A	Method Blank	T	Solid	3550C	
280-13663-1	J1FKL6	T	Solid	3550C	
280-13663-2	J1FKL7	T	Solid	3550C	
280-13663-2MS	Matrix Spike	T	Solid	3550C	
280-13663-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13663-3	J1FKL8	T	Solid	3550C	
280-13663-4	J1FKL9	T	Solid	3550C	
280-13663-5	J1FKM0	T	Solid	3550C	
280-13663-7	J1FKM2	T	Solid	3550C	
280-13663-8	J1FKM3	T	Solid	3550C	
280-13663-9	J1FKM4	T	Solid	3550C	
280-13663-10	J1FKM5	T	Solid	3550C	
280-13663-11	J1FKM6	T	Solid	3550C	
280-13663-12	J1FKM7	T	Solid	3550C	
280-13663-13	J1FKM8	T	Solid	3550C	
280-13663-14	J1FKM9	T	Solid	3550C	
Analysis Batch:280-58521					
LCS 280-58312/2-A	Lab Control Sample	T	Solid	8310	280-58312
MB 280-58312/1-A	Method Blank	T	Solid	8310	280-58312
280-13663-1	J1FKL6	T	Solid	8310	280-58312
280-13663-2	J1FKL7	T	Solid	8310	280-58312
280-13663-2MS	Matrix Spike	T	Solid	8310	280-58312
280-13663-2MSD	Matrix Spike Duplicate	T	Solid	8310	280-58312
280-13663-3	J1FKL8	T	Solid	8310	280-58312
280-13663-4	J1FKL9	T	Solid	8310	280-58312
280-13663-5	J1FKM0	T	Solid	8310	280-58312
280-13663-7	J1FKM2	T	Solid	8310	280-58312
280-13663-8	J1FKM3	T	Solid	8310	280-58312
280-13663-9	J1FKM4	T	Solid	8310	280-58312
280-13663-10	J1FKM5	T	Solid	8310	280-58312
280-13663-11	J1FKM6	T	Solid	8310	280-58312
280-13663-12	J1FKM7	T	Solid	8310	280-58312
280-13663-13	J1FKM8	T	Solid	8310	280-58312
280-13663-14	J1FKM9	T	Solid	8310	280-58312
Prep Batch: 280-59020					
LCS 280-59020/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59020/1-A	Method Blank	T	Solid	3550C	
280-13663-6	J1FKM1	T	Solid	3550C	
280-13663-6MS	Matrix Spike	T	Solid	3550C	
280-13663-6MSD	Matrix Spike Duplicate	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Analysis Batch:280-59084					
LCS 280-59020/2-A	Lab Control Sample	T	Solid	8310	280-59020
MB 280-59020/1-A	Method Blank	T	Solid	8310	280-59020
280-13663-6	J1FKM1	T	Solid	8310	280-59020
280-13663-6MS	Matrix Spike	T	Solid	8310	280-59020
280-13663-6MSD	Matrix Spike Duplicate	T	Solid	8310	280-59020

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58311

Method: 8270C
Preparation: 3550C

Lab Sample ID: MB 280-58311/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1354
Date Prepared: 03/18/2011 1613

Analysis Batch: 280-58674
Prep Batch: 280-58311
Units: ug/Kg

Instrument ID: MSS_Y
Lab File ID: Y9010.D
Initial Weight/Volume: 30.9 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	320
Acenaphthylene	17	U	17	320
Anthracene	17	U	17	320
Benzo[a]anthracene	19	U	19	320
Benzo[a]pyrene	19	U	19	320
Benzo[b]fluoranthene	25	U	25	320
Benzo[ghi]perylene	16	U	16	320
Benzo[k]fluoranthene	39	U	39	320
Bis(2-chloroethoxy)methane	22	U	22	320
Bis(2-chloroethyl)ether	16	U	16	320
bis (2-chloroisopropyl) ether	22	U	22	320
Bis(2-ethylhexyl) phthalate	104	J	45	320
4-Bromophenyl phenyl ether	18	U	18	320
Butyl benzyl phthalate	42	U	42	320
Carbazole	35	U	35	320
4-Chloroaniline	80	U	80	320
4-Chloro-3-methylphenol	64	U	64	320
2-Chloronaphthalene	9.7	U	9.7	320
2-Chlorophenol	20	U	20	320
4-Chlorophenyl phenyl ether	20	U	20	320
Chrysene	26	U	26	320
Dibenz(a,h)anthracene	18	U	18	320
Dibenzofuran	19	U	19	320
1,2-Dichlorobenzene	21	U	21	320
1,3-Dichlorobenzene	12	U	12	320
1,4-Dichlorobenzene	13	U	13	320
3,3'-Dichlorobenzidine	87	U	87	640
2,4-Dichlorophenol	9.7	U	9.7	320
Diethyl phthalate	25	U	25	320
2,4-Dimethylphenol	64	U	64	320
Dimethyl phthalate	22	U	22	320
Di-n-butyl phthalate	28	U	28	320
4,6-Dinitro-2-methylphenol	320	U	320	640
2,4-Dinitrophenol	320	U	320	800
2,4-Dinitrotoluene	64	U	64	320
2,6-Dinitrotoluene	27	U	27	320
Di-n-octyl phthalate	14	U	14	320
Fluoranthene	35	U	35	320
Fluorene	17	U	17	320
Hexachlorobenzene	28	U	28	320
Hexachlorobutadiene	9.7	U	9.7	320
Hexachlorocyclopentadiene	49	U	49	320
Hexachloroethane	21	U	21	320

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58311

Method: 8270C
Preparation: 3550C

Lab Sample ID: MB 280-58311/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1354
Date Prepared: 03/18/2011 1613

Analysis Batch: 280-58674
Prep Batch: 280-58311
Units: ug/Kg

Instrument ID: MSS_Y
Lab File ID: Y9010.D
Initial Weight/Volume: 30.9 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	Result	Qual	MDL	RL
Indeno[1,2,3-cd]pyrene	21	U	21	320
Isophorone	17	U	17	320
2-Methylnaphthalene	18	U	18	320
2-Methylphenol	13	U	13	320
3 & 4 Methylphenol	32	U	32	320
Naphthalene	30	U	30	320
2-Nitroaniline	49	U	49	320
3-Nitroaniline	71	U	71	320
4-Nitroaniline	70	U	70	320
Nitrobenzene	21	U	21	320
2-Nitrophenol	9.7	U	9.7	320
4-Nitrophenol	94	U	94	640
N-Nitrosodi-n-propylamine	30	U	30	320
N-Nitrosodiphenylamine	20	U	20	320
Pentachlorophenol	320	U	320	640
Phenanthrene	17	U	17	320
Phenol	17	U	17	320
Pyrene	12	U	12	320
1,2,4-Trichlorobenzene	27	U	27	320
2,4,5-Trichlorophenol	9.7	U	9.7	320
2,4,6-Trichlorophenol	9.7	U	9.7	320

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	80	50 - 120
2-Fluorophenol	86	53 - 120
Nitrobenzene-d5	84	50 - 120
Phenol-d5	86	52 - 120
Terphenyl-d14	90	55 - 120
2,4,6-Tribromophenol	69	51 - 120

Method Blank TICs- Batch: 280-58311

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	3.25	2820	N J

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Lab Control Sample - Batch: 280-58311

Method: 8270C
Preparation: 3550C

Lab Sample ID: LCS 280-58311/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 0923
Date Prepared: 03/18/2011 1613

Analysis Batch: 280-58674
Prep Batch: 280-58311
Units: ug/Kg

Instrument ID: MSS_Y
Lab File ID: Y8996.D
Initial Weight/Volume: 31.0 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2580	1890	73	52 - 120	
Anthracene	2580	2010	78	57 - 120	
Carbazole	2580	2000	77	54 - 120	
4-Chloro-3-methylphenol	2580	2030	79	57 - 120	
2-Chlorophenol	2580	1960	76	53 - 120	
1,4-Dichlorobenzene	2580	1780	69	46 - 120	
2,4-Dinitrotoluene	2580	2080	80	53 - 120	
2-Methylnaphthalene	2580	1920	74	55 - 120	
2-Methylphenol	2580	1990	77	51 - 120	
4-Nitrophenol	2580	1900	74	41 - 120	
N-Nitrosodi-n-propylamine	2580	2050	80	51 - 120	
Pentachlorophenol	2580	1890	73	30 - 120	
Phenol	2580	2100	81	54 - 120	
Pyrene	2580	2080	81	50 - 120	
1,2,4-Trichlorobenzene	2580	1700	66	50 - 120	
2,4,6-Trichlorophenol	2580	2070	80	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	75	50 - 120
2-Fluorophenol	82	53 - 120
Nitrobenzene-d5	81	50 - 120
Phenol-d5	82	52 - 120
Terphenyl-d14	80	55 - 120
2,4,6-Tribromophenol	69	51 - 120

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58311

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-13663-2	Analysis Batch:	280-58674	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-58311	Lab File ID:	Y8997.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 0943			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

MSD Lab Sample ID:	280-13663-2	Analysis Batch:	280-58674	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-58311	Lab File ID:	Y8998.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Date Analyzed:	03/21/2011 1003			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1613			Injection Volume:	0.5 uL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	78	75	52 - 120	9	30		
Anthracene	81	80	57 - 120	6	30		
Carbazole	81	79	54 - 120	6	30		
4-Chloro-3-methylphenol	82	79	57 - 120	8	30		
2-Chlorophenol	82	77	53 - 120	10	30		
1,4-Dichlorobenzene	76	69	46 - 120	13	30		
2,4-Dinitrotoluene	84	81	53 - 120	7	30		
2-Methylnaphthalene	79	73	55 - 120	12	30		
2-Methylphenol	84	77	51 - 120	12	30		
4-Nitrophenol	75	74	41 - 120	6	30		
N-Nitrosodi-n-propylamine	83	80	51 - 120	8	30		
Pentachlorophenol	76	75	30 - 120	6	30		
Phenol	85	80	54 - 120	10	30		
Pyrene	84	80	50 - 120	8	38		
1,2,4-Trichlorobenzene	71	65	50 - 120	12	30		
2,4,6-Trichlorophenol	84	79	50 - 120	9	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	79	73	50 - 120
2-Fluorophenol	86	79	53 - 120
Nitrobenzene-d5	86	78	50 - 120
Phenol-d5	86	79	52 - 120
Terphenyl-d14	82	78	55 - 120
2,4,6-Tribromophenol	73	67	51 - 120

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58319

Method: 8081A
Preparation: 3550C

Lab Sample ID: MB 280-58319/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1827
Date Prepared: 03/18/2011 1435

Analysis Batch: 280-58963
Prep Batch: 280-58319
Units: ug/Kg

Instrument ID: GCS_P1
Lab File ID: 022F2201.D
Initial Weight/Volume: 32.6 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.50	U	0.50	1.6
4,4'-DDE	0.22	U	0.22	1.6
4,4'-DDT	0.54	U	0.54	1.6
Aldrin	0.23	U	0.23	1.5
alpha-BHC	0.20	U	0.20	1.5
beta-BHC	0.61	U	0.61	1.5
delta-BHC	0.37	U	0.37	1.5
gamma-BHC (Lindane)	0.43	U	0.43	1.5
Heptachlor	0.20	U	0.20	1.5
Heptachlor epoxide	0.39	U	0.39	1.5
Endosulfan I	0.16	U	0.16	1.5
Endosulfan II	0.26	U	0.26	1.6
Endosulfan sulfate	0.25	U	0.25	1.6
Endrin	0.28	U	0.28	1.6
Endrin aldehyde	0.16	U	0.16	1.6
Endrin ketone	0.45	U	0.45	1.6
gamma-Chlordane	0.24	U	0.24	1.6
Methoxychlor	0.41	U	0.41	3.0
alpha-Chlordane	0.30	U	0.30	1.6
Dieldrin	0.19	U	0.19	1.6
Toxaphene	15	U	15	150

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	80	59 - 115
Decachlorobiphenyl	97	63 - 124

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Lab Control Sample - Batch: 280-58319

Method: 8081A
Preparation: 3550C

Lab Sample ID: LCS 280-58319/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1631
Date Prepared: 03/18/2011 1435

Analysis Batch: 280-58963
Prep Batch: 280-58319
Units: ug/Kg

Instrument ID: GCS_P1
Lab File ID: 015F1501.D
Initial Weight/Volume: 31.9 g
Final Weight/Volume: 10000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	15.7	10.2	65	57 - 118	
4,4'-DDE	15.7	11.6	74	61 - 115	
4,4'-DDT	15.7	13.2	85	53 - 125	
Aldrin	15.7	12.6	81	60 - 115	
alpha-BHC	15.7	12.9	82	54 - 115	
beta-BHC	15.7	13.5	86	58 - 115	
delta-BHC	15.7	14.0	89	62 - 115	
gamma-BHC (Lindane)	15.7	13.3	85	59 - 115	
Heptachlor	15.7	14.0	89	61 - 115	
Heptachlor epoxide	15.7	13.8	88	62 - 112	
Endosulfan I	15.7	13.1	84	55 - 115	
Endosulfan II	15.7	14.7	94	60 - 115	
Endosulfan sulfate	15.7	14.3	91	58 - 118	
Endrin	15.7	16.3	104	61 - 121	
Endrin aldehyde	15.7	11.4	73	54 - 115	
Endrin ketone	15.7	12.9	82	61 - 118	
gamma-Chlordane	15.7	13.2	84	60 - 115	
Methoxychlor	15.7	16.3	104	52 - 123	
alpha-Chlordane	15.7	13.0	83	60 - 115	
Dieldrin	15.7	14.4	92	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	77	59 - 115
Decachlorobiphenyl	103	63 - 124

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58319

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-13663-7	Analysis Batch: 280-58963	Instrument ID: GCS_P1
Client Matrix:	Solid	Prep Batch: 280-58319	Lab File ID: 027F2701.D
Dilution:	1.0		Initial Weight/Volume: 30.3 g
Date Analyzed:	03/21/2011 1950		Final Weight/Volume: 10000 uL
Date Prepared:	03/18/2011 1435		Injection Volume: 1 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13663-7	Analysis Batch: 280-58963	Instrument ID: GCS_P1
Client Matrix:	Solid	Prep Batch: 280-58319	Lab File ID: 028F2801.D
Dilution:	1.0		Initial Weight/Volume: 30.6 g
Date Analyzed:	03/21/2011 2007		Final Weight/Volume: 10000 uL
Date Prepared:	03/18/2011 1435		Injection Volume: 1 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	63	59	57 - 118	8	20		
4,4'-DDE	67	12	61 - 115	20	15		N *
4,4'-DDT	76	63	53 - 125	15	29		
Aldrin	78	74	60 - 115	6	50		
alpha-BHC	80	77	54 - 115	6	17		
beta-BHC	80	76	58 - 115	6	17		
delta-BHC	83	80	62 - 115	5	19		
gamma-BHC (Lindane)	81	77	59 - 115	6	24		
Heptachlor	86	81	61 - 115	6	18		
Heptachlor epoxide	91	85	62 - 112	8	18		
Endosulfan I	78	74	55 - 115	6	26		
Endosulfan II	84	81	60 - 115	5	20		
Endosulfan sulfate	79	78	58 - 118	3	22		
Endrin	96	91	61 - 121	6	30		
Endrin aldehyde	62	65	54 - 115	4	29		
Endrin ketone	85	81	61 - 118	6	20		
gamma-Chlordane	76	73	60 - 115	6	21		
Methoxychlor	90	86	52 - 123	6	23		
alpha-Chlordane	76	73	60 - 115	4	18		
Dieldrin	85	81	63 - 117	6	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	75	73	59 - 115
Decachlorobiphenyl	103	99	63 - 124

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58340

Method: 8082
Preparation: 3550C

Lab Sample ID: MB 280-58340/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1826
Date Prepared: 03/18/2011 1736

Analysis Batch: 280-58988
Prep Batch: 280-58340
Units: ug/Kg

Instrument ID: GCS_P3
Lab File ID: 064B0401.D
Initial Weight/Volume: 31.2 g
Final Weight/Volume: 5000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.7	U	2.7	9.6
Aroclor 1221	7.7	U	7.7	16
Aroclor 1232	1.9	U	1.9	9.6
Aroclor 1242	4.5	U	4.5	9.6
Aroclor 1248	4.5	U	4.5	9.6
Aroclor 1254	2.5	U	2.5	9.6
Aroclor 1260	2.5	U	2.5	9.6

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	87	59 - 130
Tetrachloro-m-xylene	99	53 - 128

Lab Control Sample - Batch: 280-58340

Method: 8082
Preparation: 3550C

Lab Sample ID: LCS 280-58340/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1847
Date Prepared: 03/18/2011 1736

Analysis Batch: 280-58988
Prep Batch: 280-58340
Units: ug/Kg

Instrument ID: GCS_P3
Lab File ID: 065B0501.D
Initial Weight/Volume: 31.2 g
Final Weight/Volume: 5000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	32.1	29.5	92	54 - 132	
Aroclor 1260	32.1	30.2	94	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	88	59 - 130
Tetrachloro-m-xylene	91	53 - 128

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58340

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-13663-1	Analysis Batch: 280-58986	Instrument ID: GCS_P3
Client Matrix:	Solid	Prep Batch: 280-58340	Lab File ID: 009B0901.D
Dilution:	1.0		Initial Weight/Volume: 30.0 g
Date Analyzed:	03/21/2011 1408		Final Weight/Volume: 5000 uL
Date Prepared:	03/18/2011 1736		Injection Volume: 1 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13663-1	Analysis Batch: 280-58986	Instrument ID: GCS_P3
Client Matrix:	Solid	Prep Batch: 280-58340	Lab File ID: 010B1001.D
Dilution:	1.0		Initial Weight/Volume: 30.1 g
Date Analyzed:	03/21/2011 1430		Final Weight/Volume: 5000 uL
Date Prepared:	03/18/2011 1736		Injection Volume: 1 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	90	90	54 - 132	0	26		
Aroclor 1260	86	86	62 - 129	1	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	80	81	59 - 130
Tetrachloro-m-xylene	82	80	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58294

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-58294/1-A	Analysis Batch:	280-58713	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-58294	Lab File ID:	011B1101.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 1448			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	Result	Qual	MDL	RL
C10-C36	1000	U	1000	4000
C10-C28	680	U	680	4000

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	97	49 - 115

Lab Control Sample - Batch: 280-58294

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-58294/2-A	Analysis Batch:	280-58713	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-58294	Lab File ID:	012B1201.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.6 g
Date Analyzed:	03/21/2011 1516			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1453			Injection Volume:	1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	65400	65900	101	57 - 115	
C10-C28	65400	65800	101	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	78	49 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58294

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-13663-1	Analysis Batch: 280-58713	Instrument ID: GCS_U
Client Matrix:	Solid	Prep Batch: 280-58294	Lab File ID: 014B1401.D
Dilution:	1.0		Initial Weight/Volume: 31.2 g
Date Analyzed:	03/21/2011 1612		Final Weight/Volume: 1000 uL
Date Prepared:	03/18/2011 1453		Injection Volume: 1 uL

MSD Lab Sample ID:	280-13663-1	Analysis Batch: 280-58713	Instrument ID: GCS_U
Client Matrix:	Solid	Prep Batch: 280-58294	Lab File ID: 015B1501.D
Dilution:	1.0		Initial Weight/Volume: 31.2 g
Date Analyzed:	03/21/2011 1640		Final Weight/Volume: 1000 uL
Date Prepared:	03/18/2011 1453		Injection Volume: 1 uL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	87	91	57 - 115	4	23		
C10-C28	89	92	56 - 115	3	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	81	73	49 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58312

Method: 8310
Preparation: 3550C

Lab Sample ID: MB 280-58312/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 0618
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0321038.D
Initial Weight/Volume: 31.1 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.6	U	9.6	96
Acenaphthylene	8.7	U	8.7	96
Anthracene	2.9	U	2.9	19
Benzo[a]anthracene	3.1	U	3.1	14
Benzo[a]pyrene	6.2	U	6.2	14
Benzo[b]fluoranthene	4.1	U	4.1	14
Benzo[g,h,i]perylene	6.9	U	6.9	29
Benzo[k]fluoranthene	3.8	U	3.8	14
Chrysene	4.7	U	4.7	39
Dibenzo(a,h)anthracene	11	U	11	29
Fluoranthene	13	U	13	39
Fluorene	5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene	12	U	12	29
Naphthalene	12	U	12	96
Phenanthrene	12	U	12	39
Pyrene	12	U	12	39

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	94	72 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Lab Control Sample - Batch: 280-58312

Method: 8310
Preparation: 3550C

Lab Sample ID: LCS 280-58312/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 0649
Date Prepared: 03/18/2011 1545

Analysis Batch: 280-58521
Prep Batch: 280-58312
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0321039.D
Initial Weight/Volume: 30.1 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1990	1900	95	72 - 115	
Acenaphthylene	1990	1790	90	60 - 115	
Anthracene	1990	1650	83	61 - 115	
Benzo[a]anthracene	1990	2030	102	76 - 115	
Benzo[a]pyrene	1990	1610	81	69 - 115	
Benzo[b]fluoranthene	1990	1960	98	81 - 115	
Benzo[g,h,i]perylene	1990	1850	93	71 - 115	
Benzo[k]fluoranthene	1990	1980	99	85 - 115	
Chrysene	1990	1950	98	70 - 115	
Dibenzo(a,h)anthracene	1990	1990	100	79 - 115	
Fluoranthene	1990	1940	97	67 - 115	
Fluorene	1990	1850	93	72 - 115	
Indeno[1,2,3-cd]pyrene	1990	2050	103	76 - 115	
Naphthalene	1990	1890	95	77 - 115	
Phenanthrene	1990	1900	95	79 - 115	
Pyrene	1990	1940	97	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	91	72 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58312

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-13663-2	Analysis Batch: 280-58521	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-58312	Lab File ID: G0321042.D
Dilution:	1.0		Initial Weight/Volume: 31.3 g
Date Analyzed:	03/22/2011 0820		Final Weight/Volume: 4000 uL
Date Prepared:	03/18/2011 1545		Injection Volume: 20 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13663-2	Analysis Batch: 280-58521	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-58312	Lab File ID: G0321043.D
Dilution:	1.0		Initial Weight/Volume: 30.6 g
Date Analyzed:	03/22/2011 0851		Final Weight/Volume: 4000 uL
Date Prepared:	03/18/2011 1545		Injection Volume: 20 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	97	98	72 - 115	3	20		
Acenaphthylene	92	91	60 - 115	2	21		
Anthracene	84	85	61 - 115	3	20		
Benzo[a]anthracene	102	104	76 - 115	5	20		
Benzo[a]pyrene	80	83	69 - 115	5	20		
Benzo[b]fluoranthene	97	100	81 - 115	5	20		
Benzo[g,h,i]perylene	92	95	71 - 115	5	20		
Benzo[k]fluoranthene	98	101	85 - 115	5	20		
Chrysene	97	100	70 - 115	5	20		
Dibenzo(a,h)anthracene	99	102	79 - 115	5	20		
Fluoranthene	97	99	67 - 115	4	20		
Fluorene	95	94	72 - 115	2	20		
Indeno[1,2,3-cd]pyrene	102	106	76 - 115	6	20		
Naphthalene	98	97	77 - 115	1	20		
Phenanthrene	96	97	79 - 115	3	20		
Pyrene	97	99	77 - 115	4	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	90	92	72 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-59020

Method: 8310
Preparation: 3550C

Lab Sample ID: MB 280-59020/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/24/2011 1715
Date Prepared: 03/23/2011 1835

Analysis Batch: 280-59084
Prep Batch: 280-59020
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: SIG10018.D
Initial Weight/Volume: 32.8 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.1	U	9.1	91
Acenaphthylene	8.2	U	8.2	91
Anthracene	2.8	U	2.8	18
Benzo[a]anthracene	2.9	U	2.9	14
Benzo[a]pyrene	5.9	U	5.9	14
Benzo[b]fluoranthene	3.8	U	3.8	14
Benzo[g,h,i]perylene	6.6	U	6.6	27
Benzo[k]fluoranthene	3.6	U	3.6	14
Chrysene	4.4	U	4.4	37
Dibenzo(a,h)anthracene	10	U	10	27
Fluoranthene	12	U	12	37
Fluorene	4.8	U	4.8	27
Indeno[1,2,3-cd]pyrene	11	U	11	27
Naphthalene	11	U	11	91
Phenanthrene	11	U	11	37
Pyrene	11	U	11	37

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	90	72 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Lab Control Sample - Batch: 280-59020

Method: 8310
Preparation: 3550C

Lab Sample ID: LCS 280-59020/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/24/2011 1746
Date Prepared: 03/23/2011 1835

Analysis Batch: 280-59084
Prep Batch: 280-59020
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: SIG10019.D
Initial Weight/Volume: 31.6 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1900	1800	95	72 - 115	
Acenaphthylene	1900	1720	91	60 - 115	
Anthracene	1900	1600	84	61 - 115	
Benzo[a]anthracene	1900	1910	101	76 - 115	
Benzo[a]pyrene	1900	1530	81	69 - 115	
Benzo[b]fluoranthene	1900	1840	97	81 - 115	
Benzo[g,h,i]perylene	1900	1740	92	71 - 115	
Benzo[k]fluoranthene	1900	1860	98	85 - 115	
Chrysene	1900	1830	96	70 - 115	
Dibenzo(a,h)anthracene	1900	1870	98	79 - 115	
Fluoranthene	1900	1840	97	67 - 115	
Fluorene	1900	1780	94	72 - 115	
Indeno[1,2,3-cd]pyrene	1900	1930	102	76 - 115	
Naphthalene	1900	1820	96	77 - 115	
Phenanthrene	1900	1830	96	79 - 115	
Pyrene	1900	1840	97	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	90	72 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59020

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-13663-6	Analysis Batch: 280-59084	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-59020	Lab File ID: SIG10021.D
Dilution:	1.0		Initial Weight/Volume: 30.0 g
Date Analyzed:	03/24/2011 1847		Final Weight/Volume: 4000 uL
Date Prepared:	03/23/2011 1835		Injection Volume: 20 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13663-6	Analysis Batch: 280-59084	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-59020	Lab File ID: SIG10022.D
Dilution:	1.0		Initial Weight/Volume: 31.3 g
Date Analyzed:	03/24/2011 1917		Final Weight/Volume: 4000 uL
Date Prepared:	03/23/2011 1835		Injection Volume: 20 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	95	91	72 - 115	8	20		
Acenaphthylene	90	86	60 - 115	9	21		
Anthracene	86	82	61 - 115	9	20		
Benzo[a]anthracene	102	97	76 - 115	9	20		
Benzo[a]pyrene	84	78	69 - 115	12	20		
Benzo[b]fluoranthene	97	90	81 - 115	11	20		
Benzo[g,h,i]perylene	91	83	71 - 115	13	20		
Benzo[k]fluoranthene	99	92	85 - 115	12	20		
Chrysene	96	91	70 - 115	10	20		
Dibenzo(a,h)anthracene	97	90	79 - 115	12	20		
Fluoranthene	97	93	67 - 115	8	20		
Fluorene	94	88	72 - 115	11	20		
Indeno[1,2,3-cd]pyrene	105	101	76 - 115	8	20		
Naphthalene	95	91	77 - 115	9	20		
Phenanthrene	97	92	79 - 115	10	20		
Pyrene	98	95	77 - 115	8	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	91	86	72 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58304

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 280-58304/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1833
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.31	B	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	4.19	B	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0
Sodium	59.0	U	59.0	120

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Lab Control Sample - Batch: 280-58304

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-58304/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1836
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	175.0	88	82 - 116	
Antimony	50.0	45.48	91	82 - 110	
Arsenic	100	89.55	90	85 - 110	
Barium	200	187.8	94	87 - 112	
Beryllium	5.00	4.42	88	84 - 114	
Boron	100	90.52	91	81 - 110	
Cadmium	10.0	9.51	95	87 - 110	
Calcium	5000	4442	89	82 - 114	
Chromium	20.0	18.73	94	84 - 114	
Cobalt	50.0	45.85	92	87 - 110	
Copper	25.0	24.26	97	88 - 110	
Iron	100	92.37	92	87 - 120	
Lead	50.0	46.65	93	86 - 110	
Magnesium	5000	4513	90	90 - 110	
Manganese	50.0	46.10	92	88 - 110	
Molybdenum	100	94.07	94	86 - 110	
Nickel	50.0	45.82	92	87 - 110	
Potassium	5000	4656	93	89 - 110	
Selenium	200	192.1	96	83 - 110	
Silicon	1000	87.07	9	10 - 70	N
Silver	5.00	4.69	94	87 - 114	
Vanadium	50.0	46.42	93	88 - 110	
Zinc	50.0	44.50	89	76 - 114	
Sodium	5000	4797	96	90 - 112	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike - Batch: 280-58304

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1845
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.06 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6320		201	7863	769	50 - 200	4
Antimony	0.37	U	50.3	27.01	54	20 - 200	
Arsenic	6.5		101	88.38	81	76 - 111	
Barium	49.8		201	248.6	99	52 - 159	
Beryllium	0.12	B	5.03	4.36	84	72 - 105	
Boron	1.3	B	101	81.98	80	75 - 107	
Cadmium	0.064	B	10.1	9.12	90	40 - 130	
Calcium	5160		5030	11320	123	43 - 165	
Chromium	10.6		20.1	27.52	84	70 - 200	
Cobalt	6.1		50.3	48.21	84	72 - 106	
Copper	13.6		25.2	36.53	91	37 - 187	
Iron	15500		101	15540	57	70 - 200	4
Lead	17.9		50.3	59.81	83	70 - 200	
Magnesium	3990		5030	8575	91	64 - 145	
Manganese	253		50.3	326.5	146	40 - 200	4
Molybdenum	0.25	U	101	86.45	86	75 - 103	
Nickel	10.3		50.3	51.61	82	61 - 126	
Potassium	917		5030	5576	93	56 - 172	
Selenium	0.83	U	201	177.0	88	76 - 104	
Silicon	224		1010	341.7	12	20 - 200	N
Silver	0.15	U	5.03	4.55	90	75 - 141	
Vanadium	42.1		50.3	88.18	92	50 - 169	
Zinc	34.3		50.3	77.02	85	70 - 200	
Sodium	235		5030	5034	95	78 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Duplicate - Batch: 280-58304

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1842
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58691
Prep Batch: 280-58304
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25B032111.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6320		6271	0.7	40	
Antimony	0.37	U	0.39	NC	40	U
Arsenic	6.5		5.81	12	30	
Barium	49.8		44.40	12	30	
Beryllium	0.12	B	0.106	10	30	B
Boron	1.3	B	1.30	2	30	B
Cadmium	0.064	B	0.0533	19	30	B
Calcium	5160		4848	6	30	
Chromium	10.6		9.31	13	40	
Cobalt	6.1		5.07	19	30	
Copper	13.6		12.23	11	30	
Iron	15500		13490	14	40	
Lead	17.9		16.20	10	40	
Magnesium	3990		3678	8	30	
Manganese	253		215.3	16	40	
Molybdenum	0.25	U	0.27	NC	30	U
Nickel	10.3		8.65	18	30	
Potassium	917		761.6	18	40	
Selenium	0.83	U	0.88	NC	30	U
Silicon	224		179.9	22	40	N
Silver	0.15	U	0.16	NC	30	U
Vanadium	42.1		34.46	20	30	
Zinc	34.3		32.43	6	40	
Sodium	235		274.6	16	30	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58354

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 280-58354/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1646
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110322AD.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: 280-58354

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 280-58354/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1648
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.461	111	87 - 111	

Matrix Spike - Batch: 280-58354

Method: 7471A
Preparation: 7471A

Lab Sample ID: 280-13663-13
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1732
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58354
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.011	B	0.403	0.467	113	87 - 111	N

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Duplicate - Batch: 280-58354

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13663-13	Analysis Batch:	280-58997	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-58354	Lab File ID:	110322AD.txt
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.61 g
Date Analyzed:	03/22/2011 1730			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.011	B	0.0113	6	20	B

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58815

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 280-58698/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1307
Date Prepared: N/A
Date Leached: 03/19/2011 1140

Analysis Batch: 280-58815
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58698

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0322NXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N-Soluble	0.35	U	0.35	0.74

Method Reporting Limit Check - Batch: 280-58815

Method: 353.2
Preparation: N/A

Lab Sample ID: MRL 280-58815/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2011 1304
Date Prepared: N/A

Analysis Batch: 280-58815
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0322NXN.RST
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.100	0.0805	80	50 - 150	B

Lab Control Sample - Batch: 280-58815

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 280-58698/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1308
Date Prepared: N/A
Date Leached: 03/19/2011 1140

Analysis Batch: 280-58815
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58698

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0322NXN.RST
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	50.0	49.97	100	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike - Batch: 280-58815

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1313
Date Prepared: N/A
Date Leached: 03/19/2011 1140

Analysis Batch: 280-58815
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58698

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0322NXN.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	0.79	B	41.4	44.26	105	90 - 110	

Matrix Spike - Batch: 280-58815

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13663-10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1338
Date Prepared: N/A
Date Leached: 03/19/2011 1140

Analysis Batch: 280-58815
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58698

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0322NXN.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	0.46	B	43.9	46.27	104	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Duplicate - Batch: 280-58815

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1311
Date Prepared: N/A
Date Leached: 03/19/2011 1140

Analysis Batch: 280-58815
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58698

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0322NXN.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	0.79	B	0.822	4	10	

Duplicate - Batch: 280-58815

Method: 353.2
Preparation: N/A

Lab Sample ID: 280-13663-10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1337
Date Prepared: N/A
Date Leached: 03/19/2011 1140

Analysis Batch: 280-58815
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58698

Instrument ID: WC_Alp 2
Lab File ID: C:\FLOW_4\0322NXN.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	0.46	B	0.444	4	10	B

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-58416

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-58416/4	Analysis Batch: 280-58416	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:	03/19/2011 0939		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

LCSD Lab Sample ID:	LCSD 280-58416/5	Analysis Batch: 280-58416	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:	03/19/2011 0940		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
pH adj. to 25 deg C-Soluble	101	101	97 - 103	0	5		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-58416

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-58416/16	Analysis Batch: 280-58416	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:	03/19/2011 1023		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

LCSD Lab Sample ID:	LCSD 280-58416/17	Analysis Batch: 280-58416	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:	03/19/2011 1024		Final Weight/Volume: 1.0 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
pH adj. to 25 deg C-Soluble	101	101	97 - 103	0	5		

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Duplicate - Batch: 280-58416

Method: 9045C
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/19/2011 0954
Date Prepared: N/A
Date Leached: 03/19/2011 0843

Analysis Batch: 280-58416
Prep Batch: N/A
Units: SU

Leachate Batch: 280-58398

Instrument ID: WC_pH Probe
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	9.48	9.460	0.2	5	

Duplicate - Batch: 280-58416

Method: 9045C
Preparation: N/A

Lab Sample ID: 280-13663-9
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/19/2011 1026
Date Prepared: N/A
Date Leached: 03/19/2011 0843

Analysis Batch: 280-58416
Prep Batch: N/A
Units: SU

Leachate Batch: 280-58398

Instrument ID: WC_pH Probe
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	9.26	9.280	0.2	5	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58958

Method: 9056M
Preparation: N/A

Lab Sample ID: MB 280-58452/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1451
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58958
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 112.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Nitrate as N-Soluble	0.31	U	0.31	2.5
Nitrite as N-Soluble	0.33	U	0.33	2.5
Orthophosphate as P-Soluble	1.2	U	1.2	5.0

Method Reporting Limit Check - Batch: 280-58958

Method: 9056M
Preparation: N/A

Lab Sample ID: MRL 280-58958/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1340
Date Prepared: N/A

Analysis Batch: 280-58958
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 110.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	0.200	0.203	102	50 - 150	B
Nitrite as N-Soluble	0.200	0.200	100	50 - 150	B
Orthophosphate as P-Soluble	0.200	0.210	105	50 - 150	B

Lab Control Sample - Batch: 280-58958

Method: 9056M
Preparation: N/A

Lab Sample ID: LCS 280-58452/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1433
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58958
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 111.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	50.0	51.94	104	90 - 110	
Nitrite as N-Soluble	50.0	50.48	101	90 - 110	
Orthophosphate as P-Soluble	50.0	47.23	94	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike - Batch: 280-58958

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1543
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58958
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 115.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	0.96	B	51.8	53.94	102	80 - 120	
Nitrite as N-Soluble	0.36	U	51.8	51.74	100	80 - 120	
Orthophosphate as P-Soluble	1.3	U	51.8	51.93	100	80 - 120	

Duplicate - Batch: 280-58958

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1525
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58958
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 114.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate as N-Soluble	0.96	B	0.872	10	15	B
Nitrite as N-Soluble	0.36	U	0.34	NC	15	U
Orthophosphate as P-Soluble	1.3	U	1.3	NC	15	U

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Method Blank - Batch: 280-58960

Method: 9056M
Preparation: N/A

Lab Sample ID: MB 280-58452/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1451
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58960
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 112.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Chloride-Soluble	2.0	U	2.0	5.0
Bromide-Soluble	0.38	U	0.38	2.0
Sulfate-Soluble	1.7	U	1.7	5.0
Fluoride-Soluble	0.81	U	0.81	5.0

Method Reporting Limit Check - Batch: 280-58960

Method: 9056M
Preparation: N/A

Lab Sample ID: MRL 280-58960/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2011 1340
Date Prepared: N/A

Analysis Batch: 280-58960
Prep Batch: N/A
Units: mg/L

Instrument ID: WC_IC6
Lab File ID: 110.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	1.00	1.01	101	50 - 150	B
Bromide-Soluble	0.200	0.205	102	50 - 150	B
Sulfate-Soluble	1.00	1.07	107	50 - 150	B
Fluoride-Soluble	0.200	0.177	88	50 - 150	B

Lab Control Sample - Batch: 280-58960

Method: 9056M
Preparation: N/A

Lab Sample ID: LCS 280-58452/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1433
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58960
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 111.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	250	258.2	103	90 - 110	
Bromide-Soluble	50.0	51.03	102	90 - 110	
Sulfate-Soluble	250	256.1	102	90 - 110	
Fluoride-Soluble	50.0	50.46	101	90 - 110	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Matrix Spike - Batch: 280-58960

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1543
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58960
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 115.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	2.8	B	259	266.7	102	80 - 120	
Bromide-Soluble	0.41	U	51.8	52.60	102	80 - 120	
Sulfate-Soluble	6.9		259	268.4	101	80 - 120	
Fluoride-Soluble	1.1	B	51.8	52.73	100	80 - 120	

Duplicate - Batch: 280-58960

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1525
Date Prepared: N/A
Date Leached: 03/21/2011 0700

Analysis Batch: 280-58960
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-58452

Instrument ID: WC_IC6
Lab File ID: 114.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride-Soluble	2.8	B	3.13	11	15	B
Bromide-Soluble	0.41	U	0.40	NC	15	U
Sulfate-Soluble	6.9		6.31	9	15	
Fluoride-Soluble	1.1	B	0.995	13	15	B

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13663-1
Sdg Number: JP0127

Duplicate - Batch: 280-58306

Method: D-2216
Preparation: N/A

Lab Sample ID: 280-13663-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/18/2011 1417
Date Prepared: N/A

Analysis Batch: 280-58306
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.3	6.3	0.06	20	

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 1 of 8

Collector: J Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L, 8B	Data Turnaround: 21 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: ERC-02-002	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7968 8392 9225

POSSIBLE SAMPLE HAZARDS/REMARKS
~~None~~ Rad < DOT Limit

Special Handling and/or Storage
Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	0	1
Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14; Tritium - H3 Low Level Soil	See item (3) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
~~J1FKL4~~	~~SOIL~~												
~~J1FKL5~~	~~SOIL~~												
J1FKL6	SOIL	3-17-11	0810	X		X	X	X	X	X	X		
J1FKL7	SOIL	3-17-11	0830	X		X	X	X	X	X	X		
J1FKL8	SOIL	3-17-11	0835	X		X	X	X	X	X	X		

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature]	3-17-11 1130	JV Fullmer [signature]	1150 3-17-11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JV Fullmer [signature]	1240 3-17-11	A. Freier [signature]	1240 3-17-11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
A. Freier [signature]	WCH 1430 3-17-11	Fed Ex	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
		[signature]	3/18/11 0830
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

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-17-11

JP0127

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 2 of 5

Collector: J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L, 8B	Data Turnaround: 21 Days 7		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: ERC-02-002	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7968 8392 9225

POSSIBLE SAMPLE HAZARDS/REMARKS
~~None~~ RAD < DOT Limit
AF 3-17-11

Special Handling and/or Storage
Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	0	1
Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.	Chromium Hex 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14; Tritium - H3 Low Level Soil	See item (3) in Special Instructions.
J1FKL9	SOIL	3-17-11	0840	X		X	X	X	X	X	X		
J1FKM0	SOIL	3-17-11	0850	X		X	X	X	X	X	X		
J1FKM1	SOIL	3-17-11	0935	X		X	X	X	X	X	X		
J1FKM2	SOIL	3-17-11	0940	X		X	X	X	X	X	X		
J1FKM3	SOIL	3-17-11	0945	X		X	X	X	X	X	X		

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3-17-11 1130	JV Fullmer	1130 3-17-11
JV Fullmer	3-17-11 1240	A. Freier	1240 3-17-11
A. Freier (WCH)	3-17-11 1430	Fed Ex	
		8/8/11 0900	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-17-11

JP0127

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 3 of 8

Collector: J. 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 Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: ERC-02-002	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7968 8392 9225

POSSIBLE SAMPLE HAZARDS/REMARKS
~~None~~ RAD < DOT Limit

Special Handling and/or Storage
Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	0	1
Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14, Tritium - H3 Low Level Soil	See item (3) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
J1FKM4	SOIL	3-17-11	~~0955~~ 1010	X		X	X	X	X	X	X		
J1FKM5	SOIL	3-17-11	1005	X		X	X	X	X	X	X		
J1FKM6	SOIL	3-17-11	0950	X		X	X	X	X	X	X		
J1FKM7	SOIL	3-17-11	~~0100~~ 1000	X		X	X	X	X	X	X		
J1FKM8	SOIL	3-17-11	0955	X		X	X	X	X	X	X		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3-17-11 1130	JV Fullmer	1130 3-17-11
JV Fullmer	1240 3-17-11	A. Freier	1240 3-17-11
A. Freier	1430 3-17-11	Fed Ex	
			3/18/11 0830

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB DATE 3-17-11

JP0127

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 4 of 8

Collector: J. 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 Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing		SAF No.: RC-107
Ice Chest No.: ERC-02-002	Field Logbook No.: EL 1627-04	COA: R116H52600	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7968 8392 9225

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ RAD < DOT Limit
AF 3-17-11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	None
Type of Container	G/P	G/P	G/P	G	aG	aG	aG	aG	G/P	G/P
No. of Container(s)	1	1	1	1	1	1	1	1	0	1
Volume	60mL	60mL	125mL	120mL	120mL	120mL	120mL	120mL	500mL	500mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081	Carbon-14; Tritium - H3 Low Level Soil	See item (3) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
J1FKM9	SOIL	3-17-11	0850	X		X	X	X	X	X	X		
J1FKN0	SOIL	3-17-11	0805	X				X					

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JKuepfer JKuepfer	3-17-11 1130	JVFullmer JVFullmer	1130 3-17-11
JVFullmer JVFullmer	3-17-11 1240	A. Freier A. Freier	1240 3-17-11
A. Freier A. Freier	WCH 3-17-11 1430	Fed Ex	
			3/18/11 0930

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out 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 - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2; pH (Soil) - 9045
(3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable}

REVIEWED BY JEB
DATE 3-17-11

JP0127

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 - Colo TR - Solid

Analytical Due:

Report Due: 3/25/11 (Rush 5 Day TAT)

Sample Check-in List

Date/Time Received: 3/18/11 0930 **GM Screen Result** 15 **microR/hr**

Client: Washington Closure Hanford **SDG #:** JP 0127 NA[ ] **SAF #:** RC-107 NA [ ]

Job Number: 13663 **Chain of Custody #** RC-107-063

AFS-04-120 ERC-02-002 7968 8392 9270 7968 8392 9420

Shipping Container ID: GWS-132 GWS-130 **Air Bill #** 7968 8592 9225 7968 8392 9523

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: 2.7, 2.4, 3.4, 4.7 °C 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:** 3/18/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is

Project Manager [signature] Date 3/21/11

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

RICHLAND, WA 99354

FedEx Express

J11101012220225

Ship Date: 17MAR11
ActWgt: 80.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

1 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

TRK# 7968 8392 9225
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EFB

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11101012220225

Ship Date: 17MAR11
ActWgt: 48.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

MPS# 7968 8392 9270
0263
Mstr# 7968 8392 9225 0201

XH WHHA

80002
CO-US
DEN

50DG2/6DD9/7EFB

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx Express

J11101012220225

Ship Date: 17MAR11
ActWgt: 65.0 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

3 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

MPS# 7968 8392 9420
0263
Mstr# 7968 8392 9225 0201

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EFB

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WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J1110101222022 5

Ship Date: 17MAR11
ActWgt: 71.0 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

4 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

MPS# 7968 8392 9523
0263
Mstr# 7968 8392 9225 0201

XH WHHA

80002
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