0095018

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

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 3/17/11
NITIAL/DATE

COMMENTS:

SDG JP0094 SAF-RC-107

Rad only Chem only ☑ Rad & Chem

☑ Complete Partial

RECEIVED
MAR 23 2011
EDMC

Waste Site: 126-H-2 Verification Sampling

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
MAR 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 77 Pages

Report No.: 45951

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.
JP0094	RC-107	J1DX43	J1C030621-1	ME6QQ1AA	9ME6QQ10	1062411
		J1DX44	J1C030621-2	ME6QX1AA	9ME6QX10	1062411
		J1DX45	J1C030621-3	ME6Q01AA	9ME6Q010	1062411
		J1DX46	J1C030621-4	ME6Q11AA	9ME6Q110	1062411
		J1DX47	J1C030621-5	ME6Q21AA	9ME6Q210	1062411
		J1DX48	J1C030621-6	ME6Q31AA	9ME6Q310	1062411
		J1DX70	J1C030622-1	ME6Q91AE	9ME6Q910	1063111
		J1DX70	J1C030622-1	ME6Q91AD	9ME6Q910	1063119
		J1DX70	J1C030622-1	ME6Q91AC	9ME6Q910	1063120
		J1DX70	J1C030622-1	ME6Q91AF	9ME6Q910	1063122
		J1DX71	J1C030622-2	ME6RC1AE	9ME6RC10	1063111
		J1DX71	J1C030622-2	ME6RC1AD	9ME6RC10	1063119
		J1DX71	J1C030622-2	ME6RC1AC	9ME6RC10	1063120
		J1DX71	J1C030622-2	ME6RC1AF	9ME6RC10	1063122
		J1DX72	J1C030622-3	ME6RD1AE	9ME6RD10	1063111
		J1DX72	J1C030622-3	ME6RD1AD	9ME6RD10	1063119
		J1DX72	J1C030622-3	ME6RD1AC	9ME6RD10	1063120
		J1DX72	J1C030622-3	ME6RD1AF	9ME6RD10	1063122
		J1DX73	J1C030622-4	ME6RE1AE	9ME6RE10	1063111
		J1DX73	J1C030622-4	ME6RE1AD	9ME6RE10	1063119
		J1DX73	J1C030622-4	ME6RE1AC	9ME6RE10	1063120
		J1DX73	J1C030622-4	ME6RE1AF	9ME6RE10	1063122
		J1DX74	J1C030622-5	ME6RF1AE	9ME6RF10	1063111
		J1DX74	J1C030622-5	ME6RF1AD	9ME6RF10	1063119
		J1DX74	J1C030622-5	ME6RF1AC	9ME6RF10	1063120
		J1DX74	J1C030622-5	ME6RF1AF	9ME6RF10	1063122

Report No.: 45951

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.
JP0094	RC-107	J1DX75	J1C030622-6	ME6RG1AE	9ME6RG10	1063111
		J1DX75	J1C030622-6	ME6RG1AD	9ME6RG10	1063119
		J1DX75	J1C030622-6	ME6RG1AC	9ME6RG10	1063120
		J1DX75	J1C030622-6	ME6RG1AF	9ME6RG10	1063122

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

March 11, 2011

Attention: Joan Kessner

SAF Number	:	RC-107
Date SDG Closed	:	March 3, 2011
Number of Samples	:	Twelve (12)
Sample Type	:	Other
SDG Number	:	JP0094
Data Deliverable	:	7– Day / Summary

CASE NARRATIVE

I. Introduction

On March 3, 2011, twelve other 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
J1DX43	ME6QQ	OTHER	03/03/11
J1DX44	ME6QX	OTHER	03/03/11
J1DC45	ME6Q0	OTHER	03/03/11
J1DX46	ME6Q1	OTHER	03/03/11
J1DX47	ME6Q2	OTHER	03/03/11
J1DX48	ME6Q3	OTHER	03/03/11
J1DX70	ME6Q9	OTHER	03/03/11
J1DX71	ME6RC	OTHER	03/03/11
J1DX72	ME6RD	OTHER	03/03/11
J1DX73	ME6RE	OTHER	03/03/11
J1DX74	ME6RF	OTHER	03/03/11
J1DX75	ME6RG	OTHER	03/03/11

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
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
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002:
The LCS, batch blank, sample and sample duplicate (J1DX71) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RL-GPC-003:
The LCS, batch blank, samples and sample duplicate (J1DX72) results are within contractual requirements.

Gamma Spectroscopy
Gamma Spec by method RL-GAM-001
There was insufficient volume for a duplicate. Sample J1DX70 was recounted on a different detector for the duplicate (J1DX70 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 (J1DX70) results are within contractual requirements.

Liquid Scintillation Counting
Technetium-99 by method RL-LSC-013:

The LCS, batch blank, samples, sample duplicate (J1DX73), and sample matrix spike (J1DX74) results are within contractual requirements.

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The insoluble spike absorbance was above the calibration and was not diluted and reanalyzed. The final CCV was not performed due to an analyst error. All other batch QC is within the acceptance criteria. Except as noted; the LCS, batch blank, samples, sample duplicate (J1DX43) and sample matrix spike (J1DX43) 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: 11-Mar-11

TestAmerica TARL

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

Report No. : 45951

SDG No: JP0094

Batch	Client Id / Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1063119 PUISO_PLATE_AEA									
J1DX70									
	ME6Q91AD	PU-238	2.69E-02 +- 6.8E-02	U	pCi/g	77%	1.61E-01	1.00E+00	
		PU239/40	-3.37E-03 +- 6.7E-02	U	pCi/g	77%	1.41E-01	1.00E+00	
J1DX71									
	ME6RC1AD	PU-238	-2.17E-03 +- 8.7E-02	U	pCi/g	60%	1.63E-01	1.00E+00	
		PU239/40	-2.17E-03 +- 8.7E-02	U	pCi/g	60%	1.63E-01	1.00E+00	
J1DX71 DUP									
	ME6RC1AG	PU-238	-1.75E-03 +- 7.0E-02	U	pCi/g	74%	1.31E-01	1.00E+00	-21.2
		PU239/40	-1.75E-03 +- 7.0E-02	U	pCi/g	74%	1.31E-01	1.00E+00	-21.2
J1DX72									
	ME6RD1AD	PU-238	-3.00E-03 +- 6.0E-02	U	pCi/g	87%	1.26E-01	1.00E+00	
		PU239/40	-3.00E-03 +- 6.0E-02	U	pCi/g	87%	1.26E-01	1.00E+00	
J1DX73									
	ME6RE1AD	PU-238	-1.81E-03 +- 7.2E-02	U	pCi/g	75%	1.36E-01	1.00E+00	
		PU239/40	0.00E+00 +- 7.2E-02	U	pCi/g	75%	1.36E-01	1.00E+00	
J1DX74									
	ME6RF1AD	PU-238	0.00E+00 +- 6.2E-02	U	pCi/g	78%	1.17E-01	1.00E+00	
		PU239/40	-4.68E-03 +- 6.3E-02	U	pCi/g	78%	1.41E-01	1.00E+00	
J1DX75									
	ME6RG1AD	PU-238	0.00E+00 +- 7.8E-02	U	pCi/g	70%	1.47E-01	1.00E+00	
		PU239/40	0.00E+00 +- 7.8E-02	U	pCi/g	70%	1.47E-01	1.00E+00	
1063111 GAMMA_GS									
J1DX70									
	ME6Q91AE	AG-108M	1.76E-02 +- 4.5E-02	U	pCi/g		8.10E-02		
		AMERICIUM 241	5.18E-02 +- 5.7E-02	U	pCi/g		1.02E-01		
		BA-133	-2.58E-02 +- 6.2E-02	U	pCi/g		9.62E-02		
		CO-60	3.88E-02 +- 5.7E-02	U	pCi/g		1.15E-01	5.00E-02	
		CS-137	2.49E-01 +- 1.0E-01		pCi/g		9.97E-02	1.00E-01	
		EU-152	-4.48E-02 +- 1.3E-01	U	pCi/g		2.25E-01	1.00E-01	
		EU-154	-4.36E-03 +- 1.8E-01	U	pCi/g		3.19E-01	1.00E-01	
		EU-155	9.56E-03 +- 9.2E-02	U	pCi/g		1.61E-01	1.00E-01	
J1DX70 DUP									
	ME6Q91AG	AG-108M	-3.08E-03 +- 2.6E-02	U	pCi/g		4.63E-02		285.0
		AMERICIUM 241	2.27E-01 +- 1.8E-01	U	pCi/g		3.26E-01		125.8
		BA-133	-6.22E-04 +- 3.7E-02	U	pCi/g		6.17E-02		-190.6
		CO-60	2.18E-02 +- 4.2E-02	U	pCi/g		8.16E-02	5.00E-02	56.2
		CS-137	2.11E-01 +- 7.6E-02		pCi/g		6.21E-02	1.00E-01	16.6
		EU-152	7.12E-02 +- 8.3E-02	U	pCi/g		1.53E-01	1.00E-01	879.2

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: 11-Mar-11

Report No. : 45951

SDG No: JP0094

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1063111 GAMMA_GS									
J1DX70 DUP									
	ME6Q91AG	EU-154	-1.08E-01 +- 1.3E-01	U	pCi/g		2.08E-01	1.00E-01	-184.4
		EU-155	4.68E-02 +- 7.4E-02	U	pCi/g		1.34E-01	1.00E-01	132.1
J1DX71									
	ME6RC1AE	AG-108M	-5.38E-03 +- 2.3E-02	U	pCi/g		4.05E-02		
		AMERICIUM 241	-6.24E-02 +- 1.6E-01	U	pCi/g		2.60E-01		
		BA-133	-2.28E-03 +- 3.5E-02	U	pCi/g		5.80E-02		
		CO-60	1.12E-02 +- 4.1E-02	U	pCi/g		7.78E-02	5.00E-02	
		CS-137	1.33E-01 +- 4.9E-02	U	pCi/g		9.36E-02	1.00E-01	
		EU-152	-1.27E-02 +- 7.8E-02	U	pCi/g		1.33E-01	1.00E-01	
		EU-154	-9.44E-04 +- 1.0E-01	U	pCi/g		1.93E-01	1.00E-01	
		EU-155	7.06E-02 +- 6.8E-02	U	pCi/g		1.25E-01	1.00E-01	
J1DX72									
	ME6RD1AE	AG-108M	-1.30E-02 +- 5.3E-02	U	pCi/g		9.05E-02		
		AMERICIUM 241	-3.66E-02 +- 7.2E-02	U	pCi/g		1.18E-01		
		BA-133	-2.62E-02 +- 8.8E-02	U	pCi/g		1.23E-01		
		CO-60	3.17E-02 +- 7.3E-02	U	pCi/g		1.40E-01	5.00E-02	
		CS-137	7.70E-02 +- 7.4E-02	U	pCi/g		1.38E-01	1.00E-01	
		EU-152	-6.03E-02 +- 1.6E-01	U	pCi/g		2.67E-01	1.00E-01	
		EU-154	7.15E-02 +- 2.2E-01	U	pCi/g		4.11E-01	1.00E-01	
		EU-155	-2.06E-02 +- 1.1E-01	U	pCi/g		1.92E-01	1.00E-01	
J1DX73									
	ME6RE1AE	AG-108M	5.18E-03 +- 4.0E-02	U	pCi/g		7.14E-02		
		AMERICIUM 241	-5.46E-03 +- 5.2E-02	U	pCi/g		8.89E-02		
		BA-133	2.44E-03 +- 6.0E-02	U	pCi/g		9.07E-02		
		CO-60	-9.67E-03 +- 5.6E-02	U	pCi/g		9.99E-02	5.00E-02	
		CS-137	2.09E-01 +- 8.7E-02		pCi/g		9.28E-02	1.00E-01	
		EU-152	1.23E-01 +- 1.3E-01	U	pCi/g		2.33E-01	1.00E-01	
		EU-154	-7.57E-02 +- 1.7E-01	U	pCi/g		2.98E-01	1.00E-01	
		EU-155	6.48E-02 +- 8.5E-02	U	pCi/g		1.53E-01	1.00E-01	
J1DX74									
	ME6RF1AE	AG-108M	7.96E-03 +- 5.1E-02	U	pCi/g		8.94E-02		
		AMERICIUM 241	-1.04E-01 +- 7.0E-02	U	pCi/g		1.07E-01		
		BA-133	1.24E-02 +- 8.5E-02	U	pCi/g		1.24E-01		
		CO-60	-4.52E-02 +- 7.1E-02	U	pCi/g		1.20E-01	5.00E-02	
		CS-137	1.23E-01 +- 7.1E-02	U	pCi/g		1.35E-01	1.00E-01	
		EU-152	5.68E-02 +- 1.8E-01	U	pCi/g		2.73E-01	1.00E-01	
		EU-154	1.95E-02 +- 2.0E-01	U	pCi/g		3.70E-01	1.00E-01	

TestAmerica

rptSTLRchSaSummary2 V5.2.12 A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 11-Mar-11

TestAmerica TARL

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

Report No. : 45951 **SDG No:** JP0094

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1063111 GAMMA_GS									
J1DX74									
	ME6RF1AE	EU-155	-3.65E-03 +- 1.1E-01	U	pCi/g		1.87E-01	1.00E-01	
J1DX75									
	ME6RG1AE	AG-108M	-2.33E-02 +- 5.9E-02	U	pCi/g		1.00E-01		
		AMERICIUM 241	-9.74E-02 +- 7.9E-02	U	pCi/g		1.23E-01		
		BA-133	-1.05E-02 +- 1.0E-01	U	pCi/g		1.43E-01		
		CO-60	-3.47E-02 +- 8.1E-02	U	pCi/g		1.41E-01	5.00E-02	
		CS-137	1.05E-01 +- 8.4E-02	U	pCi/g		1.59E-01	1.00E-01	
		EU-152	8.90E-02 +- 2.1E-01	U	pCi/g		3.37E-01	1.00E-01	
		EU-154	-1.54E-01 +- 2.6E-01	U	pCi/g		4.33E-01	1.00E-01	
		EU-155	9.09E-03 +- 1.2E-01	U	pCi/g		2.12E-01	1.00E-01	
1063120 SRTOT_SEP_PRECIP_GPC									
J1DX70									
	ME6Q91AC	STRONTIUM	1.20E-01 +- 8.5E-02	U	pCi/g	71%	1.57E-01		
J1DX71									
	ME6RC1AC	STRONTIUM	1.27E-01 +- 7.4E-02		pCi/g	93%	1.25E-01		
J1DX72									
	ME6RD1AC	STRONTIUM	1.61E-01 +- 7.8E-02		pCi/g	97%	1.17E-01		
J1DX72 DUP									
	ME6RD1AG	STRONTIUM	1.44E-01 +- 9.3E-02	U	pCi/g	64%	1.64E-01		11.4
J1DX73									
	ME6RE1AC	STRONTIUM	3.81E-01 +- 1.3E-01		pCi/g	93%	1.29E-01		
J1DX74									
	ME6RF1AC	STRONTIUM	3.20E-01 +- 1.2E-01		pCi/g	93%	1.23E-01		
J1DX75									
	ME6RG1AC	STRONTIUM	4.28E-01 +- 1.5E-01		pCi/g	74%	1.50E-01		
1062411 7196_CR6									
J1DX43									
	ME6QQ1AA	HEXCHROME	6.90E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	ME6QQ1AE	HEXCHROME	9.00E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01		26.4
J1DX44									
	ME6QX1AA	HEXCHROME	1.86E+00 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
J1DX45									
	ME6Q01AA	HEXCHROME	1.65E+00 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	
J1DX46									
	ME6Q11AA	HEXCHROME	7.08E-01 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	
J1DX47									
	ME6Q21AA	HEXCHROME	1.00E+00 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	

TestAmerica

rptSTLRchSaSummary2 V5.2.12 A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

Date: 11-Mar-11

TestAmerica TARL

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

Report No. : 45951

SDG No: JP0094

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1062411	7196_CR6								
	J1DX48								
	ME6Q31AA	HEXCHROME	1.52E+00 +- 0.0E+00		mg/kg	N/A	1.53E-01	1.55E-01	
1063122	TC99_ETVDSK_LSC								
	J1DX70								
	ME6Q91AF	TC-99	6.76E-01 +- 4.0E-01		pCi/g	100%	6.52E-01	1.50E+01	
	J1DX71								
	ME6RC1AF	TC-99	1.22E-01 +- 3.6E-01	U	pCi/g	100%	6.36E-01	1.50E+01	
	J1DX72								
	ME6RD1AF	TC-99	5.63E-01 +- 3.9E-01	U	pCi/g	100%	6.63E-01	1.50E+01	
	J1DX73								
	ME6RE1AF	TC-99	2.84E-01 +- 3.8E-01	U	pCi/g	100%	6.46E-01	1.50E+01	
	J1DX73 DUP								
	ME6RE1AG	TC-99	5.11E-02 +- 3.6E-01	U	pCi/g	100%	6.45E-01	1.50E+01	139.0
	J1DX74								
	ME6RF1AF	TC-99	4.64E-01 +- 3.8E-01	U	pCi/g	100%	6.62E-01	1.50E+01	
	J1DX75								
	ME6RG1AF	TC-99	2.27E-02 +- 3.6E-01	U	pCi/g	100%	6.45E-01	1.50E+01	

No. of Results: 91

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

Date: 11-Mar-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 45951

SDG No.:

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
PUISO_PLATE_AEA								
1063119 BLANK QC,								
ME6621AA	PU-238	-1.52E-03 +- 6.1E-02	U	pCi/g	91%			1.14E-01
	PU239/40	-3.05E-03 +- 6.1E-02	U	pCi/g	91%			1.27E-01
1063119 LCS,								
ME6621AC	PU239/40	7.23E+00 +- 1.9E+00		pCi/g	75%	108%	0.1	1.25E-01
GAMMA_GS								
1063111 BLANK QC,								
ME65F1AA	AG-108M	8.01E-03 +- 2.0E-02	U	pCi/g				3.64E-02
	AMERICIUM 241	-1.05E-01 +- 1.4E-01	U	pCi/g				2.31E-01
	BA-133	1.61E-02 +- 2.7E-02	U	pCi/g				4.92E-02
	CO-60	-3.32E-02 +- 3.2E-02	U	pCi/g				4.95E-02
	CS-137	3.13E-02 +- 2.8E-02	U	pCi/g				5.40E-02
	EU-152	3.29E-02 +- 6.9E-02	U	pCi/g				1.24E-01
	EU-154	3.64E-04 +- 9.6E-02	U	pCi/g				1.77E-01
	EU-155	7.59E-02 +- 5.4E-02	U	pCi/g				1.04E-01
1063111 LCS,								
ME65F1AC	CS-137	6.89E-01 +- 1.9E-01		pCi/g		91%	-0.1	1.63E-01
SRTOT_SEP_PRECIP_GPC								
1063120 BLANK QC,								
ME6631AA	STRONTIUM	-2.10E-02 +- 5.1E-02	U	pCi/g	87%			1.27E-01
1063120 LCS,								
ME6631AC	STRONTIUM	1.17E+00 +- 3.3E-01		pCi/g	87%	102%	0.0	1.27E-01
7196_CR6								
1062411 MATRIX SPIKE, J1DX43								
ME6QQ1AC	HEXCHROME	8.17E+00 +- 0.0E+00		mg/kg	N/A	75%	-0.2	1.54E-01
1062411 LCS,								
ME6RM1AC	HEXCHROME	1.86E+01 +- 0.0E+00		mg/kg	N/A	93%	-0.1	1.55E-01
1062411 BLANK QC,								
ME6RM1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01
TC99_ETVDSK_LSC								
1063122 BLANK QC,								
ME6661AA	TC-99	-1.97E-02 +- 3.5E-01	U	pCi/g	100%			6.24E-01
1063122 LCS,								
ME6661AC	TC-99	6.96E+01 +- 4.2E+00		pCi/g	100%	104%	0.0	6.32E-01
1063122 MATRIX SPIKE, J1DX74								
ME6RF1AG	TC-99	2.02E+02 +- 1.2E+01		pCi/g	100%	92%	-0.1	6.23E-01

No. of Results: 20

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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 8:30:00 AM
Lot-Sample No.:	J1C030621-1	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX43	**COC No. :**	RC-107-060	**Matrix:**	OTHER OTHERSOLID

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: 1062411	7196_CR6			**Work Order:**	ME6QQ1AA		**Report DB ID:**	9ME6QQ10				
HEXCHROME	***6.90E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(4.5)*	3/3/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:20:00 AM
Lot-Sample No.:	J1C030621-2	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX44	**COC No. :**	RC-107-060	**Matrix:**	OTHER OTHERSOLID

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: 1062411	7196_CR6			**Work Order:** ME6QX1AA			**Report DB ID:** 9ME6QX10					
HEXCHROME	***1.86E+00***			0.0E+00	1.55E-01	mg/kg	N/A	*(12.)*	3/3/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:55:00 AM
Lot-Sample No.:	J1C030621-3	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX45	**COC No. :**	RC-107-060	**Matrix:**	OTHER OTHERSOLID

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: 1062411	7196_CR6			**Work Order:** ME6Q01AA			**Report DB ID:** 9ME6Q010					
HEXCHROME	***1.65E+00***			0.0E+00	1.54E-01	mg/kg	N/A	*(10.7)*	3/3/11		2.52	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 11-Mar-11

Lab Name:	**TestAmerica**	**SDG:**	JP0094	**Collection Date:**	3/3/2011 10:05:00 AM
Lot-Sample No.:	**J1C030621-4**	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	**J1DX46**	**COC No. :**	RC-107-060	**Matrix:**	OTHER OTHERSOLID

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: 1062411	7196_CR6			**Work Order:**	ME6Q11AA		**Report DB ID:**	9ME6Q110				
HEXCHROME	***7.08E-01***			0.0E+00	1.54E-01	mg/kg	N/A	*(4.6)*	3/3/11		2.52	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 10:50:00 AM
Lot-Sample No.:	J1C030621-5	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX47	**COC No. :**	RC-107-060	**Matrix:**	OTHER OTHERSOLID

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: 1062411	7196_CR6			**Work Order:** ME6Q21AA			**Report DB ID:** 9ME6Q210					
HEXCHROME	***1.00E+00***			0.0E+00	1.54E-01	mg/kg	N/A	*(6.5)*	3/3/11		2.51	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 11:20:00 AM
Lot-Sample No.:	J1C030621-6	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX48	**COC No. :**	RC-107-060	**Matrix:**	OTHER OTHERSOLID

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: 1062411	7196_CR6			**Work Order:**	ME6Q31AA		**Report DB ID:**	9ME6Q310				
HEXCHROME	***1.52E+00***			0.0E+00	1.53E-01	mg/kg	N/A	*(9.9)*	3/3/11		2.53	
							1.55E-01	*N/A*			g	

No. of Results: 1 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 8:30:00 AM
Lot-Sample No.:	J1C030622-1	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX70	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063111	GAMMA_GS			**Work Order:**	ME6Q91AE		**Report DB ID:**	9ME6Q910				
AG-108M	***1.76E-02***	U	4.5E-02	4.5E-02	8.10E-02	pCi/g		*0.22*	3/7/11 01:27 p		45.5	GER15$1
								0.78			g	
AMERICIUM 241	***5.18E-02***	U	5.7E-02	5.7E-02	1.02E-01	pCi/g		*0.51*	3/7/11 01:27 p		45.5	GER15$1
								(1.8)			g	
BA-133	***-2.58E-02***	U	6.2E-02	6.2E-02	9.62E-02	pCi/g		*-0.27*	3/7/11 01:27 p		45.5	GER15$1
								-0.82			g	
CO-60	***3.88E-02***	U	5.7E-02	5.7E-02	1.15E-01	pCi/g		*0.34*	3/7/11 01:27 p		45.5	GER15$1
							5.00E-02	*(1.4)*			g	
CS-137	***2.49E-01***		1.0E-01	1.0E-01	9.97E-02	pCi/g		*(2.5)*	3/7/11 01:27 p		45.5	GER15$1
							1.00E-01	*(4.8)*			g	
EU-152	***-4.48E-02***	U	1.3E-01	1.3E-01	2.25E-01	pCi/g		*-0.2*	3/7/11 01:27 p		45.5	GER15$1
							1.00E-01	*-0.67*			g	
EU-154	***-4.36E-03***	U	1.8E-01	1.8E-01	3.19E-01	pCi/g		*-0.01*	3/7/11 01:27 p		45.5	GER15$1
							1.00E-01	*-0.05*			g	
EU-155	***9.56E-03***	U	9.2E-02	9.2E-02	1.61E-01	pCi/g		*0.06*	3/7/11 01:27 p		45.5	GER15$1
							1.00E-01	*0.21*			g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6Q91AD		**Report DB ID:**	9ME6Q910				
PU-238	***2.69E-02***	U	6.8E-02	6.8E-02	1.61E-01	pCi/g	*77%*	*0.17*	3/8/11 12:39 p		1.0	ALP38
						3.50E-02	1.00E+00	*0.79*			g	
PU239/40	***-3.37E-03***	U	6.7E-02	6.7E-02	1.41E-01	pCi/g	*77%*	*-0.02*	3/8/11 12:39 p		1.0	ALP38
						2.48E-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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 8:30:00 AM
Lot-Sample No.:	J1C030622-1	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX70	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:** ME6Q91AC			**Report DB ID:** 9ME6Q910					
STRONTIUM	***1.20E-01***	U	7.9E-02	8.5E-02	1.57E-01	pCi/g	71%	*0.76*	3/9/11 08:55 p		5.99	GPC26C
						7.30E-02		*(2.8)*			g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:** ME6Q91AF			**Report DB ID:** 9ME6Q910					
TC-99	***6.76E-01***		2.9E-01	4.0E-01	6.52E-01	pCi/g	100%	*(1.)*	3/10/11 05:20 p		1.98	LSC3
						3.13E-01	1.50E+01	*(3.4)*			g	

No. of Results: 12 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:20:00 AM
Lot-Sample No.:	J1C030622-2	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX71	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063111	GAMMA_GS			**Work Order:**	ME6RC1AE		**Report DB ID:**	9ME6RC10				
AG-108M	***-5.38E-03***	U	2.3E-02	2.3E-02	4.05E-02	pCi/g		*-0.13*	3/7/11 01:29 p		47.4	GER11$1
								-0.46			g	
AMERICIUM 241	***-6.24E-02***	U	1.6E-01	1.6E-01	2.60E-01	pCi/g		*-0.24*	3/7/11 01:29 p		47.4	GER11$1
								-0.79			g	
BA-133	***-2.28E-03***	U	3.5E-02	3.5E-02	5.80E-02	pCi/g		*-0.04*	3/7/11 01:29 p		47.4	GER11$1
								-0.13			g	
CO-60	***1.12E-02***	U	4.1E-02	4.1E-02	7.78E-02	pCi/g		*0.14*	3/7/11 01:29 p		47.4	GER11$1
							5.00E-02	*0.54*			g	
CS-137	***1.33E-01***	U	4.9E-02	4.9E-02	9.36E-02	pCi/g		*(1.4)*	3/7/11 01:29 p		47.4	GER11$1
							1.00E-01	*(5.4)*			g	
EU-152	***-1.27E-02***	U	7.8E-02	7.8E-02	1.33E-01	pCi/g		*-0.1*	3/7/11 01:29 p		47.4	GER11$1
							1.00E-01	*-0.33*			g	
EU-154	***-9.44E-04***	U	1.0E-01	1.0E-01	1.93E-01	pCi/g		*0.*	3/7/11 01:29 p		47.4	GER11$1
							1.00E-01	*-0.02*			g	
EU-155	***7.06E-02***	U	6.8E-02	6.8E-02	1.25E-01	pCi/g		*0.56*	3/7/11 01:29 p		47.4	GER11$1
							1.00E-01	*(2.1)*			g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6RC1AD		**Report DB ID:**	9ME6RC10				
PU-238	***-2.17E-03***	U	8.7E-02	8.7E-02	1.63E-01	pCi/g	60%	*-0.01*	3/8/11 12:39 p		1.01	ALP39
						2.26E-02	1.00E+00	*-0.05*			g	
PU239/40	***-2.17E-03***	U	8.7E-02	8.7E-02	1.63E-01	pCi/g	60%	*-0.01*	3/8/11 12:39 p		1.01	ALP39
						2.26E-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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:20:00 AM
Lot-Sample No.:	J1C030622-2	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX71	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:**	ME6RC1AC		**Report DB ID:**	9ME6RC10				
STRONTIUM	***1.27E-01***		6.7E-02	7.4E-02	1.25E-01	pCi/g	93%	*(1.)*	3/9/11 08:55 p		6.02	GPC26D
						5.83E-02		*(3.4)*			g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:**	ME6RC1AF		**Report DB ID:**	9ME6RC10				
TC-99	***1.22E-01***	U	2.6E-01	3.6E-01	6.36E-01	pCi/g	100%	*0.19*	3/10/11 06:23 p		2.05	LSC3
						3.05E-01	1.50E+01	*0.68*			g	

No. of Results: 12 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:55:00 AM
Lot-Sample No.:	J1C030622-3	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX72	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063111	GAMMA_GS			**Work Order:**	ME6RD1AE		**Report DB ID:**	9ME6RD10				
AG-108M	***-1.30E-02***	U	5.3E-02	5.3E-02	9.05E-02	pCi/g		*-0.14*	3/7/11 01:28 p		46.4	GER14$1
								-0.49			g	
AMERICIUM 241	***-3.66E-02***	U	7.2E-02	7.2E-02	1.18E-01	pCi/g		*-0.31*	3/7/11 01:28 p		46.4	GER14$1
								-(1.)			g	
BA-133	***-2.62E-02***	U	8.8E-02	8.8E-02	1.23E-01	pCi/g		*-0.21*	3/7/11 01:28 p		46.4	GER14$1
								-0.59			g	
CO-60	***3.17E-02***	U	7.3E-02	7.3E-02	1.40E-01	pCi/g		*0.23*	3/7/11 01:28 p		46.4	GER14$1
							5.00E-02	*0.87*			g	
CS-137	***7.70E-02***	U	7.4E-02	7.4E-02	1.38E-01	pCi/g		*0.56*	3/7/11 01:28 p		46.4	GER14$1
							1.00E-01	*(2.1)*			g	
EU-152	***-6.03E-02***	U	1.6E-01	1.6E-01	2.67E-01	pCi/g		*-0.23*	3/7/11 01:28 p		46.4	GER14$1
							1.00E-01	*-0.75*			g	
EU-154	***7.15E-02***	U	2.2E-01	2.2E-01	4.11E-01	pCi/g		*0.17*	3/7/11 01:28 p		46.4	GER14$1
							1.00E-01	*0.64*			g	
EU-155	***-2.06E-02***	U	1.1E-01	1.1E-01	1.92E-01	pCi/g		*-0.11*	3/7/11 01:28 p		46.4	GER14$1
							1.00E-01	*-0.36*			g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6RD1AD		**Report DB ID:**	9ME6RD10				
PU-238	***-3.00E-03***	U	6.0E-02	6.0E-02	1.26E-01	pCi/g	87%	*-0.02*	3/8/11 12:39 p		0.98	ALP41
						2.21E-02	1.00E+00	*-0.1*			g	
PU239/40	***-3.00E-03***	U	6.0E-02	6.0E-02	1.26E-01	pCi/g	87%	*-0.02*	3/8/11 12:39 p		0.98	ALP41
						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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:55:00 AM
Lot-Sample No.:	J1C030622-3	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX72	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:**	ME6RD1AC		**Report DB ID:**	9ME6RD10				
STRONTIUM	***1.61E-01***		6.6E-02	7.8E-02	1.17E-01	pCi/g	97%	*(1.4)*	3/9/11 08:55 p		6.04	GPC27A
						5.43E-02		*(4.1)*			g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:**	ME6RD1AF		**Report DB ID:**	9ME6RD10				
TC-99	***5.63E-01***	U	2.9E-01	3.9E-01	6.63E-01	pCi/g	100%	*0.85*	3/10/11 07:26 p		1.98	LSC3
						3.18E-01	1.50E+01	*(2.9)*			g	

No. of Results: 12 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 10:05:00 AM
Lot-Sample No.:	J1C030622-4	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX73	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063111	GAMMA_GS			**Work Order:**	ME6RE1AE		**Report DB ID:**	9ME6RE10				
AG-108M	***5.18E-03***	U	4.0E-02	4.0E-02	7.14E-02	pCi/g		*0.07*	3/7/11 05:00 p		48.5	GER15$1
								0.26			g	
AMERICIUM 241	***-5.46E-03***	U	5.2E-02	5.2E-02	8.89E-02	pCi/g		*-0.06*	3/7/11 05:00 p		48.5	GER15$1
								-0.21			g	
BA-133	***2.44E-03***	U	6.0E-02	6.0E-02	9.07E-02	pCi/g		*0.03*	3/7/11 05:00 p		48.5	GER15$1
								0.08			g	
CO-60	***-9.67E-03***	U	5.6E-02	5.6E-02	9.99E-02	pCi/g		*-0.1*	3/7/11 05:00 p		48.5	GER15$1
							5.00E-02	*-0.35*			g	
CS-137	***2.09E-01***		8.7E-02	8.7E-02	9.28E-02	pCi/g		*(2.3)*	3/7/11 05:00 p		48.5	GER15$1
							1.00E-01	*(4.8)*			g	
EU-152	***1.23E-01***	U	1.3E-01	1.3E-01	2.33E-01	pCi/g		*0.53*	3/7/11 05:00 p		48.5	GER15$1
							1.00E-01	*(1.9)*			g	
EU-154	***-7.57E-02***	U	1.7E-01	1.7E-01	2.98E-01	pCi/g		*-0.25*	3/7/11 05:00 p		48.5	GER15$1
							1.00E-01	*-0.87*			g	
EU-155	***6.48E-02***	U	8.5E-02	8.5E-02	1.53E-01	pCi/g		*0.42*	3/7/11 05:00 p		48.5	GER15$1
							1.00E-01	*(1.5)*			g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6RE1AD		**Report DB ID:**	9ME6RE10				
PU-238	***-1.81E-03***	U	7.2E-02	7.2E-02	1.36E-01	pCi/g	75%	*-0.01*	3/8/11 12:39 p		1.02	ALP42
						1.88E-02	1.00E+00	*-0.05*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.2E-02	1.36E-01	pCi/g	75%	*0.*	3/8/11 12:39 p		1.02	ALP42
						1.88E-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.
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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 10:05:00 AM
Lot-Sample No.:	J1C030622-4	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX73	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:**	ME6RE1AC		**Report DB ID:**	9ME6RE10				
STRONTIUM	***3.81E-01***		8.9E-02	1.3E-01	1.29E-01	pCi/g	93%	*(2.9)*	3/9/11 08:55 p		6.03	GPC27C
						6.04E-02		*(5.7)*			g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:**	ME6RE1AF		**Report DB ID:**	9ME6RE10				
TC-99	***2.84E-01***	U	2.7E-01	3.8E-01	6.46E-01	pCi/g	100%	*0.44*	3/10/11 08:29 p		1.99	LSC3
						3.10E-01	1.50E+01	*(1.5)*			g	

No. of Results: 12 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 10:50:00 AM
Lot-Sample No.:	J1C030622-5	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX74	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063111	GAMMA_GS			**Work Order:** ME6RF1AE			**Report DB ID:** 9ME6RF10					
AG-108M	***7.96E-03***	U	5.1E-02	5.1E-02	8.94E-02	pCi/g		*0.09*	3/7/11 05:02 p		48.6	GER14$1
								0.31			g	
AMERICIUM 241	***-1.04E-01***	U	7.0E-02	7.0E-02	1.07E-01	pCi/g		*-0.97*	3/7/11 05:02 p		48.6	GER14$1
								-(3.)			g	
BA-133	***1.24E-02***	U	8.5E-02	8.5E-02	1.24E-01	pCi/g		*0.1*	3/7/11 05:02 p		48.6	GER14$1
								0.29			g	
CO-60	***-4.52E-02***	U	7.1E-02	7.1E-02	1.20E-01	pCi/g		*-0.38*	3/7/11 05:02 p		48.6	GER14$1
							5.00E-02	*-(1.3)*			g	
CS-137	***1.23E-01***	U	7.1E-02	7.1E-02	1.35E-01	pCi/g		*0.9*	3/7/11 05:02 p		48.6	GER14$1
							1.00E-01	*(3.5)*			g	
EU-152	***5.68E-02***	U	1.8E-01	1.8E-01	2.73E-01	pCi/g		*0.21*	3/7/11 05:02 p		48.6	GER14$1
							1.00E-01	*0.61*			g	
EU-154	***1.95E-02***	U	2.0E-01	2.0E-01	3.70E-01	pCi/g		*0.05*	3/7/11 05:02 p		48.6	GER14$1
							1.00E-01	*0.19*			g	
EU-155	***-3.65E-03***	U	1.1E-01	1.1E-01	1.87E-01	pCi/g		*-0.02*	3/7/11 05:02 p		48.6	GER14$1
							1.00E-01	*-0.07*			g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:** ME6RF1AD			**Report DB ID:** 9ME6RF10					
PU-238	***0.00E+00***	U	0.0E+00	6.2E-02	1.17E-01	pCi/g	78%	*0.*	3/8/11 12:39 p		1.03	ALP43
						1.62E-02	1.00E+00	*0.*			g	
PU239/40	***-4.68E-03***	U	6.3E-02	6.3E-02	1.41E-01	pCi/g	78%	*-0.03*	3/8/11 12:39 p		1.03	ALP43
						2.81E-02	1.00E+00	*-0.15*			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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 10:50:00 AM
Lot-Sample No.:	J1C030622-5	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX74	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:**	ME6RF1AC		**Report DB ID:**	9ME6RF10				
STRONTIUM	***3.20E-01***		8.3E-02	1.2E-01	1.23E-01	pCi/g	93%	*(2.6)*	3/9/11 08:55 p		5.99	GPC27D
						5.74E-02		*(5.5)*			g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:**	ME6RF1AF		**Report DB ID:**	9ME6RF10				
TC-99	***4.64E-01***	U	2.8E-01	3.8E-01	6.62E-01	pCi/g	100%	*0.7*	3/10/11 10:35 p		2.03	LSC3
						3.18E-01	1.50E+01	*(2.4)*			g	

No. of Results: 12 **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: 11-Mar-11

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 11:20:00 AM
Lot-Sample No.:	J1C030622-6	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX75	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063111	GAMMA_GS			**Work Order:**	ME6RG1AE		**Report DB ID:**	9ME6RG10				
AG-108M	***-2.33E-02***	U	5.9E-02	5.9E-02	1.00E-01	pCi/g		*-0.23*	3/7/11 09:14 p		40.0	GER14$1
								-0.79			g	
AMERICIUM 241	***-9.74E-02***	U	7.9E-02	7.9E-02	1.23E-01	pCi/g		*-0.79*	3/7/11 09:14 p		40.0	GER14$1
								-(2.5)			g	
BA-133	***-1.05E-02***	U	1.0E-01	1.0E-01	1.43E-01	pCi/g		*-0.07*	3/7/11 09:14 p		40.0	GER14$1
								-0.21			g	
CO-60	***-3.47E-02***	U	8.1E-02	8.1E-02	1.41E-01	pCi/g		*-0.25*	3/7/11 09:14 p		40.0	GER14$1
							5.00E-02	*-0.86*			g	
CS-137	***1.05E-01***	U	8.4E-02	8.4E-02	1.59E-01	pCi/g		*0.66*	3/7/11 09:14 p		40.0	GER14$1
							1.00E-01	*(2.5)*			g	
EU-152	***8.90E-02***	U	2.1E-01	2.1E-01	3.37E-01	pCi/g		*0.26*	3/7/11 09:14 p		40.0	GER14$1
							1.00E-01	*0.85*			g	
EU-154	***-1.54E-01***	U	2.6E-01	2.6E-01	4.33E-01	pCi/g		*-0.35*	3/7/11 09:14 p		40.0	GER14$1
							1.00E-01	*-(1.2)*			g	
EU-155	***9.09E-03***	U	1.2E-01	1.2E-01	2.12E-01	pCi/g		*0.04*	3/7/11 09:14 p		40.0	GER14$1
							1.00E-01	*0.15*			g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6RG1AD		**Report DB ID:**	9ME6RG10				
PU-238	***0.00E+00***	U	0.0E+00	7.8E-02	1.47E-01	pCi/g	70%	*0.*	3/8/11 12:39 p		0.99	ALP44
						2.04E-02	1.00E+00	*0.*			g	
PU239/40	***0.00E+00***	U	0.0E+00	7.8E-02	1.47E-01	pCi/g	70%	*0.*	3/8/11 12:39 p		0.99	ALP44
						2.04E-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.
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: 11-Mar-11

Lab Name:	**TestAmerica**	**SDG:**	JP0094	**Collection Date:**	3/3/2011 11:20:00 AM
Lot-Sample No.:	**J1C030622-6**	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	**J1DX75**	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:**	ME6RG1AC		**Report DB ID:**	9ME6RG10				
STRONTIUM	***4.28E-01***		1.0E-01	1.5E-01	1.50E-01	pCi/g	74%	*(2.9)*	3/9/11 08:55 p		5.98	GPC28D
						6.94E-02		*(5.6)*			g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:**	ME6RG1AF		**Report DB ID:**	9ME6RG10				
TC-99	***2.27E-02***	U	2.6E-01	3.6E-01	6.45E-01	pCi/g	100%	*0.04*	3/11/11 12:41 a		2.01	LSC3
						3.10E-01	1.50E+01	*0.13*			g	

No. of Results: 12 **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 II

Date: 11-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 8:30:00 AM
Lot-Sample No.:	J1C030621-1	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX43	**COC No. :**	RC-107-060	**Matrix:**	OTHER OTHERSOLID

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: 1062411	7196_CR6			**Work Order:**	ME6QQ1AE		**Report DB ID:**	ME6QQ1ER	**Orig Sa DB ID:**	9ME6QQ10		
HEXCHROME	9.00E-01			0.0E+00	1.55E-01	mg/kg	N/A	(5.8)	3/3/11		2.5	
	6.90E-01		RPD	26.4				N/A			g	

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

TestAmerica RPD - Relative Percent Difference.

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

FORM II

Date: 11-Mar-11

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	JP0094	**Collection Date:**	3/3/2011 8:30:00 AM
Lot-Sample No.:	**J1C030622-1**	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	**J1DX70 DUP**	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063111	GAMMA_GS			**Work Order:**	ME6Q91AG	**Report DB ID:**		ME6Q91GR	**Orig Sa DB ID:**		9ME6Q910	
AG-108M	-3.08E-03	U	2.6E-02	2.6E-02	4.63E-02	pCi/g		-0.07	3/7/11 04:59 p		45.5	GER11$1
	1.76E-02	U	**RPD**	**285.0**				-0.23			g	
AMERICIUM 241	2.27E-01	U	1.8E-01	1.8E-01	3.26E-01	pCi/g		0.7	3/7/11 04:59 p		45.5	GER11$1
	5.18E-02	U	**RPD**	**125.8**				(2.6)			g	
BA-133	-6.22E-04	U	3.7E-02	3.7E-02	6.17E-02	pCi/g		-0.01	3/7/11 04:59 p		45.5	GER11$1
	-2.58E-02	U	**RPD**	**-190.6**				-0.03			g	
CO-60	2.18E-02	U	4.2E-02	4.2E-02	8.16E-02	pCi/g		0.27	3/7/11 04:59 p		45.5	GER11$1
	3.88E-02	U	**RPD**	**56.2**		5.00E-02		(1.)			g	
CS-137	2.11E-01		7.6E-02	7.6E-02	6.21E-02	pCi/g		(3.4)	3/7/11 04:59 p		45.5	GER11$1
	2.49E-01		**RPD**	**16.6**		1.00E-01		(5.6)			g	
EU-152	7.12E-02	U	8.3E-02	8.3E-02	1.53E-01	pCi/g		0.47	3/7/11 04:59 p		45.5	GER11$1
	-4.48E-02	U	**RPD**	**879.2**		1.00E-01		(1.7)			g	
EU-154	-1.08E-01	U	1.3E-01	1.3E-01	2.08E-01	pCi/g		-0.52	3/7/11 04:59 p		45.5	GER11$1
	-4.36E-03	U	**RPD**	**-184.4**		1.00E-01		-(1.7)			g	
EU-155	4.68E-02	U	7.4E-02	7.4E-02	1.34E-01	pCi/g		0.35	3/7/11 04:59 p		45.5	GER11$1
	9.56E-03	U	**RPD**	**132.1**		1.00E-01		(1.3)			g	

No. of Results: 8 **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: 11-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:20:00 AM
Lot-Sample No.:	J1C030622-2	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX71 DUP	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6RC1AG	**Report DB ID:**	ME6RC1GR		**Orig Sa DB ID:** 9ME6RC10			
PU-238	-1.75E-03	U	7.0E-02	7.0E-02	1.31E-01	pCi/g	74%	-0.01	3/8/11 12:39 p		1.03	ALP40
	-2.17E-03	U	**RPD**	**-21.2**		1.00E+00		-0.05			g	
PU239/40	-1.75E-03	U	7.0E-02	7.0E-02	1.31E-01	pCi/g	74%	-0.01	3/8/11 12:39 p		1.03	ALP40
	-2.17E-03	U	**RPD**	**-21.2**		1.00E+00		-0.05			g	

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

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

FORM II

Date: 11-Mar-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0094	**Collection Date:**	3/3/2011 9:55:00 AM
Lot-Sample No.:	J1C030622-3	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	J1DX72 DUP	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:** ME6RD1AG		**Report DB ID:** ME6RD1GR			**Orig Sa DB ID:** 9ME6RD10			
STRONTIUM	1.44E-01	U	8.5E-02	9.3E-02	1.64E-01	pCi/g	64%	0.87	3/9/11 08:55 p		6.0	GPC27B
	1.61E-01		**RPD**	**11.4**				(3.1)			g	

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

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

FORM II

Date: 11-Mar-11

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	JP0094	**Collection Date:**	3/3/2011 10:05:00 AM
Lot-Sample No.:	**J1C030622-4**	**Report No. :**	45951	**Received Date:**	3/3/2011 3:30:00 PM
Client Sample ID:	**J1DX73 DUP**	**COC No. :**	RC-107-061	**Matrix:**	OTHER OTHERSOLID

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: 1063122	TC99_ETVDSK_LSC			**Work Order:** ME6RE1AG		**Report DB ID:** ME6RE1GR			**Orig Sa DB ID:** 9ME6RE10			
TC-99	5.11E-02	U	2.6E-01	3.6E-01	6.45E-01	pCi/g	100%	0.08	3/10/11 09:32 p		1.99	LSC3
	2.84E-01	U	**RPD**	**139.0**		1.50E+01		0.28			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

BLANK RESULTS

Date: 11-Mar-11

Lab Name: TestAmerica

Matrix: OTHER

SDG: JP0094

Report No. : 45951

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: 1062411	7196_CR6			**Work Order:**	ME6RM1AA		**Report DB ID:**	ME6RM1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/3/11		2.5	
						1.55E-01		N/A			g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6621AA		**Report DB ID:**	ME6621AB				
PU-238	-1.52E-03	U	6.1E-02	6.1E-02	1.14E-01	pCi/g	91%	-0.01	3/8/11 12:40 p		0.99	ALP46
					1.58E-02	1.00E+00		-0.05			g	
PU239/40	-3.05E-03	U	6.1E-02	6.1E-02	1.27E-01	pCi/g	91%	-0.02	3/8/11 12:40 p		0.99	ALP46
					2.24E-02	1.00E+00		-0.1			g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:**	ME6661AA		**Report DB ID:**	ME6661AB				
TC-99	-1.97E-02	U	2.6E-01	3.5E-01	6.24E-01	pCi/g	100%	-0.03	3/11/11 01:44 a		2.02	LSC3
					3.00E-01	1.50E+01		-0.11			g	
Batch: 1063111	GAMMA_GS			**Work Order:**	ME65F1AA		**Report DB ID:**	ME65F1AB				
AG-108M	8.01E-03	U	2.0E-02	2.0E-02	3.64E-02	pCi/g		0.22	3/7/11 09:16 p		52.0	GER11$1
								0.82			g	
AMERICIUM 241	-1.05E-01	U	1.4E-01	1.4E-01	2.31E-01	pCi/g		-0.46	3/7/11 09:16 p		52.0	GER11$1
								-(1.5)			g	
BA-133	1.61E-02	U	2.7E-02	2.7E-02	4.92E-02	pCi/g		0.33	3/7/11 09:16 p		52.0	GER11$1
								(1.2)			g	
CO-60	-3.32E-02	U	3.2E-02	3.2E-02	4.95E-02	pCi/g		-0.67	3/7/11 09:16 p		52.0	GER11$1
						5.00E-02		-(2.1)			g	
CS-137	3.13E-02	U	2.8E-02	2.8E-02	5.40E-02	pCi/g		0.58	3/7/11 09:16 p		52.0	GER11$1
						1.00E-01		(2.3)			g	
EU-152	3.29E-02	U	6.9E-02	6.9E-02	1.24E-01	pCi/g		0.27	3/7/11 09:16 p		52.0	GER11$1
						1.00E-01		0.95			g	

TestAmerica
rptSTLRchBlank
V5.2.12 A2002

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

FORM II

BLANK RESULTS

Date: 11-Mar-11

Lab Name: TestAmerica

Matrix: OTHER

SDG: JP0094

Report No. : 45951

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
EU-154	3.64E-04	U	9.6E-02	9.6E-02	1.77E-01	pCi/g		0.	3/7/11 09:16 p		52.0	GER11$1
						1.00E-01		0.01			g	
EU-155	7.59E-02	U	5.4E-02	5.4E-02	1.04E-01	pCi/g		0.73	3/7/11 09:16 p		52.0	GER11$1
						1.00E-01		(2.8)			g	
Batch: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:** ME6631AA			**Report DB ID:** ME6631AB					
STRONTIUM	-2.10E-02	U	5.1E-02	5.1E-02	1.27E-01	pCi/g	87%	-0.17	3/9/11 08:55 p		6.04	GPC31B
					5.91E-02			-0.83			g	

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

TestAmerica
rptSTLRchBlank
V5.2.12 A2002

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

FORM II

LCS RESULTS

Date: 11-Mar-11

Lab Name: TestAmerica

Matrix: OTHER

SDG: JP0094

Report No. : 45951

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: 1062411	7196_CR6			**Work Order:**	ME6RM1AC		**Report DB ID:**	ME6RM1AS					
HEXCHROME	1.86E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		93%	3/3/11	2.5	
							Rec Limits:	80	120	-0.1		g	
Batch: 1063119	PUISO_PLATE_AEA			**Work Order:**	ME6621AC		**Report DB ID:**	ME6621CS					
PU239/40	7.23E+00		9.8E-01	1.9E+00	1.25E-01	pCi/g	75%	6.72E+00	2.0E-01	108%	3/8/11 12:41 p	1.02	ALP121
							Rec Limits:	70	130	0.1		g	
Batch: 1063122	TC99_ETVDSK_LSC			**Work Order:**	ME6661AC		**Report DB ID:**	ME6661CS					
TC-99	6.96E+01		1.2E+00	4.2E+00	6.32E-01	pCi/g	100%	6.68E+01	6.9E-01	104%	3/11/11 02:47 a	2.04	LSC3
							Rec Limits:	70	130	0.0		g	
Batch: 1063111	GAMMA_GS			**Work Order:**	ME65F1AC		**Report DB ID:**	ME65F1CS					
CS-137	6.89E-01		1.9E-01	1.9E-01	1.63E-01	pCi/g		7.60E-01	6.0E-02	91%	3/7/11 07:52 p	26.61	GER5$1
							Rec Limits:	70	130	-0.1		g	
Batch: 1063120	SRTOT_SEP_PRECIP_GPC			**Work Order:**	ME6631AC		**Report DB ID:**	ME6631CS					
STRONTIUM	1.17E+00		1.4E-01	3.3E-01	1.27E-01	pCi/g	87%	1.15E+00	2.2E-02	102%	3/9/11 08:55 p	5.97	GPC31D
							Rec Limits:	70	130	0.0		g	

No. of Results: 5 **Comments:**

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

rptSTLRchLcs
V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 11-Mar-11

Lab Name: TestAmerica **SDG:** JP0094

Lot-Sample No.: J1C030621-1, J1DX43 **Report No. :** 45951 **Matrix:** OTHER OTHERSOLID

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: 1062411	Work Order: ME6QQ1AC			Report DB ID: ME6QQ1CW			Orig Sa DB ID: 9ME6QQ10					
HEXCHROME	8.17E+00			0.0E+00	1.54E-01	mg/kg	N/A	75.34%	1.08E+01	3/3/11	2.51	7196_CR6
	6.90E-01										g	

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 11-Mar-11

Lab Name: TestAmerica **SDG:** JP0094

Lot-Sample No.: J1C030622-5, J1DX74 **Report No. :** 45951 **Matrix:** OTHER OTHERSOLID

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: 1063122	**Work Order:** ME6RF1AG			**Report DB ID:** ME6RF1GW			**Orig Sa DB ID:** 9ME6RF10					
TC-99	2.02E+02		1.9E+00	1.2E+01	6.23E-01	pCi/g	100%	91.72%	2.20E+02	3/10/11 11:38 p	2.07	TC99_ETVDSK_LSC
	4.64E-01								8.9E-01		g	LSC3

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 A2002

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/9/2011 9:49:51 AM

Lot No., Due Date: J1C030622; 03/10/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1063119; RPUISO Pulso by ALP
SDG, Matrix: JP0094; OTHER

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 Antonson Date 3/9/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1003119

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

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

Second Level Review: [signature] Date: 3/9/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/10/2011 12:22:59 PM

Lot No., Due Date: J1C030622; 03/10/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1063120; RSRTOT SrTot by GPC
SDG, Matrix: JP0094; OTHER

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 3/10/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 10603120

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: [signature] Date: 3/10/11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/8/2011 11:14:04 AM

Lot No., Due Date: J1C030622; 03/10/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1063111; RGAMMA Gamma by GER
SDG, Matrix: JP0094; OTHER

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: Priority short counts MDA not met - NCM	

First Level _____ Date 3/8/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1063111

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 #1

Second Level Review: [signature] Date: 3/8/11

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

TESTAMERICA LABORATORY NONCONFORMANCE MEMO (NCM)

LOG #: RD-11-_____

Project ID: _____ NCM Initiated by: Swhelan

Sample Numbers: batch 1063141

Tests: gamma

Matrix: other

Analytical Area (check appropriate area):

- ☐ Sample control
- ☐ Organic preparation
- ☐ Inorganic preparation
- ☐ GC
- ☐ HPLC
- ☐ GC/MS
- ☐ Wet chemistry
- ☐ Metals
- ☐ Reporting
- ☐ Data review
- ☒ Radiochemistry
- ☐ Bioassay

Nonconformance (check appropriate area):

Holding Time Violations (exceeded by _____ days)

Category I: Laboratory Independent

- ☐ 1. Holding time expired in transit
- ☐ 2. Sample received > 48 hrs. or 1/2 holding time has expired
- ☐ 3. Test added by client after expiration

Category II: Laboratory Dependent

- ☐ 4. Instrument failure
- ☐ 5. Analyst error
- ☐ 6. Login error
- ☐ 7. Miscommunication
- ☐ 8. Other (complete description required)

Category III: Analysis Reruns (QA/QC)

- ☐ 9. Surrogates
- ☐ 10. Internal Standards
- ☐ 11. Spike Recoveries
- ☐ 12. Blank Contamination

Category IV: Analysis Reruns (Confirmation)

- ☐ 13. Second column
- ☐ 14. Contamination check
- ☐ 15. Confirmation of matrix effects
- ☐ 16. Other (complete description required)

Quality Assurance/Quality Control

- ☐ 17. QC data reported outside of controls
- ☐ 18. Incorrect procedure used
- ☐ 19. SOP intentionally modified with QA and Tech. approval
- ☐ 20. Invalid instrument calibration
- ☐ 21. Insufficient sample received for proper analysis

Incorrect or Incomplete Client Deliverable

- ☐ 22. Hardcopy deliverable error
- ☐ 23. Electronic deliverable error

Reported detection limits elevated due to:

- ☐ 24. Sample matrix
- ☐ 25. Insufficient sample volume
- ☒ 26. Other (complete description required)
- ☐ 27. ***Other (specify):*** _____

Comments/Explanation: short count times due to priority status

Notification (check appropriate area):

Client notified by (name and date): _____

- ☐ in writing
- ☐ by telephone
- ☐ by facsimile
- ☐ other (explain)

Client's name and response: _____

- ☐ process "as is"
- ☐ on hold until _____
- ☐ re-sample
- ☐ other (explain)

Project Manager (signature and date): [signature] 3/10/11

TESTAMERICA LABORATORY NONCONFORMANCE MEMO (NCM)

LOG#: RD-98-_____

Corrective Action

Root Cause Initial and date: SB 3/10/11

shorten count times due to priority status

Corrective Action Initial and Date: SB 3/10/11

report data

Responsibility for performing CA assigned to: _____

Actions to prevent recurrence Initial and Date: SB 3/10/11

none client req.

First Level Supervisor: _____ Date: _____

Responsible Manager: _____ Date: _____

Quality Assurance Review

☐ Anomaly ☐ Deficiency ☐ Rerun

☐ Further action required: _____

Assigned to: _____

QA signature: _____ Date: _____

Corrective Action Verification

☐ Verified

☐ Cannot Verify (specify reason): _____

Nonconformance Memo Closure

QA signature/date: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

3/11/2011 9:50:08 AM

Lot No., Due Date: J1C030622; 03/10/2011
Client, Site: 127642; S00N063A00 HANFORD
QC Batch No., Method Test: 1063122; RTC99 Tc-99 by LSC
SDG, Matrix: JP0094; OTHER

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 3/11/11

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 1D03122

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: Rhonda [illegible] Date: 3/11/14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **1062411**

Lab Sample Numbers or SDG: **JP0094**

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?			✓	✓
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:
The insoluble spike was above the calibration curve and was not diluted and reanalyzed. The final CCV was not performed.

Analyst: _____ Date: 3/10/11

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

TESTAMERICA LABORATORY NONCONFORMANCE MEMO (NCM)

LOG #: RD-11: J1C030621 NCM #: 10-17670

Project ID: 1062411 NCM Initiated by: Traci Nolan 3/10/11

Sample Numbers: JP0094

Tests:

Matrix: Other/Soil

Analytical Area (check appropriate area):

☐ Sample control	☐ GC	X Wet chemistry	☐ Data review
☐ Organic preparation	☐ HPLC	☐ Metals	☐ Radiochemistry
☐ Inorganic preparation	☐ GC/MS	☐ Reporting	☐ Bioassay

Nonconformance (check appropriate area):

Holding Time Violations (exceeded by _____ days)

Category I: Laboratory Independent

- ☐ 1. Holding time expired in transit
- ☐ 2. Sample received > 48 hrs. or 1/2 holding time has expired
- ☐ 3. Test added by client after expiration

Category II: Laboratory Dependent

- ☐ 4. Instrument failure
- ☐ 5. Analyst error
- ☐ 6. Login error
- ☐ 7. Miscommunication
- ☐ 8. Other (complete description required)

Category III: Analysis Reruns (QA/QC)

- ☐ 9. Surrogates
- ☐ 10. Internal Standards
- ☐ 11. Spike Recoveries
- ☐ 12. Blank Contamination

Category IV: Analysis Reruns (Confirmation)

- ☐ 13. Second column
- ☐ 14. Contamination check
- ☐ 15. Confirmation of matrix effects
- ☐ 16. Other (complete description required)

Quality Assurance/Quality Control

- ☐ 17. QC data reported outside of controls
- X 18. Incorrect procedure used
- ☐ 19. SOP intentionally modified with QA and Tech. approval
- ☐ 20. Invalid instrument calibration
- ☐ 21. Insufficient sample received for proper analysis

Incorrect or Incomplete Client Deliverable

- ☐ 22. Hardcopy deliverable error
- ☐ 23. Electronic deliverable error

Reported detection limits elevated due to:

- ☐ 24. Sample matrix
- ☐ 25. Insufficient sample volume
- ☐ 26. Other (complete description required)
- ☐ 27. ***Other (specify):*** _____

Comments/Explanation: The Final CCV was not performed. The insoluble spike absorbance was above the calibration and was not diluted and reanalyzed.

Notification (check appropriate area):

Client notified by (name and date): _____

- ☐ in writing
- ☐ by facsimile
- ☐ by telephone
- ☐ other (explain)

Client's name and response: _____

- ☐ process "as is"
- ☐ re-sample
- ☐ on hold until _____
- ☐ other (explain)

Project Manager (signature and date): 3/11/11

TESTAMERICA LABORATORY NONCONFORMANCE MEMO (NCM)

LOG#: RD-98-_____

Corrective Action

Root Cause Initial and date: _____

Analyst Error _____

Corrective Action Initial and Date: _____

Reported Data _____

Responsibility for performing CA assigned to: _____

Actions to prevent recurrence Initial and Date: _____

First Level Supervisor: _____ Date: _____

Responsible Manager: _____ Date: _____

Quality Assurance Review

☐ Anomaly X Deficiency ☐ Rerun

☐ Further action required: _____

Assigned to: _____

QA signature: _____ Date: _____

Corrective Action Verification

☐ Verified

☐ Cannot Verify (specify reason): _____

Nonconformance Memo Closure

QA signature/date: _____

JEB 3-3-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-060	Page 1 of ~~1~~ 2

Collector: M. Blanking ~~shing~~ Ship (QW 3-3-11)	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 9B (QW 3-3-11)	Data Turnaround: ~~21~~ 7 Days (QW 3-3-11)		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 126-H-2 Verification Sampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: 0126H22600	Method of Shipment: Government Vehicle / Hand-Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C											
Type of Container	G/P											
No. of Container(s)	1											
Volume	60mL											
SAMPLE ANALYSIS	Chromium Hex - 7196											

Lot#J1C030621
SDG: JP0094
Due 3-10-11
Quote # 27038

Sample No.	Matrix *	Sample Date	Sample Time	Chromium Hex - 7196										
J1DX43	~~Soil~~ Other (QW 3-3-11)	3-3-11	0830	X	ME6Q	Q								
J1DX44	~~Soil~~ Other (QW 3-3-11)	3-3-11	0920	X	ME6	QX								
J1DX45	~~Soil~~ Other (QW 3-3-11)	3-3-11	0955	X	ME6	Q0								
J1DX46	~~Soil~~ Other (QW 3-3-11)	3-3-11	1005	X	ME6Q	1								
J1DX47	~~Soil~~ Other (QW 3-3-11)	3-3-11	1050	X	ME6	Q2								

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From: Motorola Inc Ship	3-3-11 1205	Received By/Stored In: JV Fullmer	1205 3-3-11
Relinquished By/Removed From: JV Fullmer	1255 3-3-11	Received By/Stored In: J. E. Bach	1255 3-3-11
Relinquished By/Removed From: J. E. Bach	1530 3-3-11	Received By/Stored In: TNR	1530 3-3-11
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

*24hr hold
cool 4°C
JEB 3-3-11

J1C030621

JP0094

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

REVIEWED BY AJ
DATE 3-3-11

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

WCH-EE-011

JEB 3-3-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-060	Page 2 of 2

Collector: M. Blankingship (3-3-11)	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 9B (3-3-11)	Data Turnaround: ~~21~~ 7 Days (3-3-11)		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 126-H-2 Verification Sampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: 0126H22600	Method of Shipment: Government Vehicle / Hand-Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	Cool 4C										
Type of Container	G/P										
No. of Container(s)	1										
Volume	60mL										
SAMPLE ANALYSIS	Chromium Hex - 7196										

Sample No.	Matrix *	Sample Date	Sample Time									
J1DX48	SO (3-3-11)	3-3-11	1120	X	ME6Q3							
J1DX49	SO (3-3-11)											
J1DX50	SO (3-3-11)											
J1DX51	SO (3-3-11)											
J1DX52	SO (3-3-11)											

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: MATT BLANKINGSHIP	Date/Time 1265 3-3-11	Received By/Stored In: JV Fuller	Date/Time 1205 3-3-11
Relinquished By/Removed From: JV Fuller	Date/Time 1255 3-3-11	Received By/Stored In: J.E. Bahl	Date/Time 1255 3-3-11
Relinquished By/Removed From: J.E. Bahl	Date/Time 1530 3-3-11	Received By/Stored In: ANGEL	Date/Time 1530 3-3-11
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

* 24 hr. hold
Cool 4°C
JEB 3-3-11

REVIEWED BY AJ
DATE 3-3-11

JP0094

Matrix *
S=Soil
SE=Sediment
SO=Solid
SJ=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

Q# 27038

Sample Check-in List

Date/Time Received: 3·3·11 1530 GM Screen Result (out) .3 (in) .5 Initials [CK]

Client: WCH SDG #: JP0094 NA [CK] SAF #: RC-107 NA [CK]

Work Order Number: J Chain of Custody # RC-107-060 CK

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

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

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

Item 6 through 10 for samples. Initial appropriate response.

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

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

See other side for additional comments

Sample Custodian: Carmen J. Spa Date: 3·3·11 1530

Client Informed on _____ by _____ Person contacted _____

[X] No action necessary; process as is

Project Manager [signature] Date 3/4/11

LS-023, Rev. 12, 10/10

TestAmerica Laboratories, Inc.

JEB 3-3-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-061	Page 1 of 2

Collector: M. Blankingship Ship 3-3-11	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ AF 9B 3-3-11	Data Turnaround: ~~21~~ 7 Days 3-3-11		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 126-H-2 Verification Sampleing		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-04	COA: 0126H22600	Method of Shipment: JEB 3-3-11 ~~Government Vehicle/FedEx~~ Hand-Deliver
Shipped To: 3-3-11 Test America Richland ~~EBERLINE SERVICES / LIONVILLE~~	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

~~Cool 4 Deg C~~ 3-3-11

None

J1C030622

SAMPLE ANALYSIS

	Preservation	Type of Container	No. of Container(s)	Volume	See item (1) in Special Instructions.	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	TPH-Gasoline Range - WTPH-G	Oil & Grease - 1664	VOA - 8260A (TCL)	PCBs - 8082	PAHs - 8310	See item (3) in Special Instructions. *	Isotopic Plutonium
	Cool 4C	G/P	1	60mL										
	Cool 4C	G/P	0	60mL										
	Cool 4C	G	1	120mL										
	Cool 4C	aGs*	1	40mL										
	Cool 4C	G	0	120mL										
	Cool 4C	aG	1	40mL										
	Cool 4C	aG	0	120mL										
	Cool 4C	aG	0	120mL										
	None	G/P	1	~~500mL~~ 120mL										
	None	G/P	0	120mL										

Sample No.	Matrix *	Sample Date	Sample Time									
J1DX70	3-3-11 SOIL other	3-3-11	0830					MEGQY		X	X
J1DX71	3-3-11 SOIL other	3-3-11	0920					MEGRC		X	X
J1DX72	3-3-11 SOIL other	3-3-11	0955					MEGRD		X	X
J1DX73	3-3-11 SOIL other	3-3-11	1015					MEGRE		X	X
J1DX74	3-3-11 SOIL other	3-3-11	1050					MEGRF		X	X

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MATT BLANKINGSHIP	3-3-11 1205	JV Fuller	3-3-11 1205
JV Fuller	3-3-11 1320	J. E. Beck	3-3-11 1320
J. E. Beck	3-3-11 1530	TAIR Angel Lara	3-3-11 1530

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 - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, 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}

*Also run ~~Ni-63~~ 3-3-11, Sr-90/89, Tech-99 3-3-11 DLB 3-10-11

REVIEWED BY AA DATE 3-31

JP0094

J1C030622

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-107-061	Page ~~8 of 12~~ 2 of 2 JFB 3-3-11

Collector M. Blanking~~shing~~ Shipp QVC 3-3-11	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code 8L 9B QVC 3-3-11	Data Turnaround ~~21~~ 7 Days QVC 3-3-11		
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 126-H-2 Verification Sampleing		SAF No. RC-107
Ice Chest No. NA	Field Logbook No. EL 1627-04	COA 0126H22600	Method of Shipment JFB 3-3-11 ~~Government Vehicle/FedEx~~ Hand-Deliver
Shipped To JFB 3-3-11 TAL-R ~~EBERLINE SERVICES / LIONVILLE~~	Offsite Property No. NA		Bill of Lading/Air Bill No. NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

~~Cool 4 Degs C~~ QVC 3-3-11

None

Preservation	None	None									
Type of Container	G/P	G/P									
No. of Container(s)	~~0~~ 1 QVC 3-3-11	0									
Volume	120mL	120mL									
SAMPLE ANALYSIS	~~Nickel-63,~~ Strontium-89,90 – Total Sr See item (3) for Isotopic Sr	Technetium-99									

J1C030622

Sample No.	Matrix *	Sample Date	Sample Time									
J1DX75	QVC 3-3-11 ~~SOIL~~ Other	3-3-11	1120	X	X			MEGRST				
~~J1DX76~~	~~SOIL~~	QVC 3-3-11										
~~J1DX77~~	~~SOIL~~	QVC 3-3-11										
~~J1DX78~~	~~SOIL~~	QVC 3-3-11										
~~J1DX79~~	~~SOIL~~	QVC 3-3-11										

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: MATT BLANKENSHIP	Date/Time 1205 3-3-11	Received By/Stored In: JV Fulmer	Date/Time 1205 3-3-11
Relinquished By/Removed From: JV. Fulmer	Date/Time 1320 3-3-11	Received By/Stored In: J.E. Bell	Date/Time 1320 3-3-11
Relinquished By/Removed From: J.E. Bell	Date/Time 1530 3-3-11	Received By/Stored In: TAL-R	Date/Time 1530 3-3-11
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 Run also (3) Gamma Spec - Client List {Americium-241, Barium-133, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Silver-108 metastable} QVC 3-3-11

DUL. 3-10-11

J1C030622

JP0094

REVIEWED BY AJ DATE 3-3-11

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 3·3·11@1530 GM Screen Result (out) .3 (in) .5 Initials [✓]

Client: WCH SDG #: JP0094 NA [ ] SAF #: RC-107 NA [ ]

Work Order Number: JC030622 Chain of Custody # RC-107-061

Shipping Container ID: Hand Delivery [✓] NA [ ] Air Bill # _____ NA [✓]

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 6 @ 1 JAR per sample
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ✓ hazard labels
   - ✓ appropriate sample labels
9. Samples:
   - ✓ are in good condition (Soil Other)
   - ____ are broken
   - ____ are leaking
   - ____ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [✓] (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 [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): NA [✓] _____

See other side for additional comments

Sample Custodian: [signature] Date: 3·3·11@1530 TMCR

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 3/4/11

LS-023, Rev. 12, 10/10

TestAmerica Laboratories, Inc.

3/7/2011 5:52:04 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: 03/10/2011 JP0094

Sep1 DT/Tm Tech:

Batch: 1063119 OTHER pCi/g

PM, Quote: RW , 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 ME6Q9-1-AD J1C030622-1-SAMP 03/03/2011 08:30		1.00g,in AmtRec: 1XJAR120G	PUTC12006 02/23/11,pd 01/01/10,r #Containers: 1	50		Scr:	Alpha:	Beta:
2 ME6RC-1-AD J1C030622-2-SAMP 03/03/2011 09:20		1.01g,in AmtRec: 1XJAR120G	PUTC12007 02/23/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:
3 ME6RC-1-AG-X J1C030622-2-DUP 03/03/2011 09:20		1.03g,in AmtRec: 1XJAR120G	PUTC12008 02/23/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:
4 ME6RD-1-AD J1C030622-3-SAMP 03/03/2011 09:55		0.98g,in AmtRec: 1XJAR120G	PUTC12009 02/23/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:
5 ME6RE-1-AD J1C030622-4-SAMP 03/03/2011 10:05		1.02g,in AmtRec: 1XJAR120G	PUTC12010 02/23/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:
6 ME6RF-1-AD J1C030622-5-SAMP 03/03/2011 10:50		1.03g,in AmtRec: 1XJAR120G	PUTC12011 02/23/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:
7 ME6RG-1-AD J1C030622-6-SAMP 03/03/2011 11:20		0.99g,in AmtRec: 1XJAR120G	PUTC12012 02/23/11,pd 01/01/10,r #Containers: 1			Scr:	Alpha:	Beta:

3/7/2011 5:52:05 AM

Sample Preparation/Analysis

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

PRIORITY

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

AnalyDueDate: 03/10/2011

Batch: 1063119 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:
8 ME662-1-AA-B J1C040000-119-BLK 03/04/2011 09:10 pd		0.99g,in AmtRec:	PUTC12013 02/23/11,pd #Containers: 1	50		Scr:	Alpha:	Beta:
9 ME662-1-AC-C J1C040000-119-LCS 03/04/2011 09:10 pd		1.02g,in AmtRec:	PUSK0827 01/07/11,pd #Containers: 1			Scr:	Alpha:	Beta:

Comments: ME6Q9-SAMP "Comments:Not enough sample for a gamma dup, please recount on a seperate detector. 3/6/2011 tgw"

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

ME6Q91AD-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						

ME6621AA-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						

ME6621AC-LCS:

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

ME6Q91AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
ME6621AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
ME6621AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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3/9/2011 9:48:21 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/9/2010, 3/14/2011, Batch: '1063119', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1063119						
AC		Rev1C	WoodT	3/6/2011 6:12:40 PM		
SC			wagarr	IsBatched	3/4/2011 9:11:15 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/6/2011 6:12:40 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/7/2011 5:51:42 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/7/2011 10:18:47 AM	RL-PRP-003 REVISION 1
SC			JorgensonD	Sep1C	3/7/2011 3:33:27 PM	RL-ALP-001 REVISION 2
SC			HoganH	Sep2C	3/8/2011 11:46:20 AM	RL-ALP-015 REVISION 1
SC			BlackCL	InCnt1	3/8/2011 11:52:49 AM	RL-CI-008 REVISION 1
SC			BlackCL	CalcC	3/8/2011 2:05:22 PM	RL-CI-008 REVISION 1
SC			antonsonl	Rev1C	3/9/2011 9:47:44 AM	RL-DR-001 Rev 2
AC			WoodT	3/7/2011 5:51:42 AM		
AC			BouslaughP	3/7/2011 10:18:47		
AC			JorgensonD	3/7/2011 3:33:27 PM		
AC			HoganH	3/8/2011 11:46:20		
AC			BlackCL	3/8/2011 11:52:49		
AC			BlackCL	3/8/2011 2:05:22 PM		
AC			antonsonl	3/9/2011 9:47:44 AM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 8

ICOCFractions v4.8.44

3/7/2011 5:52:05 AM

Sample Preparation/Analysis

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #:

AnalyDueDate: 03/10/2011 JP0094

Sep1 DT/Tm Tech: 13:00 3/9/11 APA

Batch: 1063120 OTHER pCi/g

PM, Quote: RW , 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 ME6Q9-1-AC J1C030622-1-SAMP 03/03/2011 08:30		5.99g,in AmtRec: 1XJAR120G #Containers: 1	SRTA20520 01/27/11	1.5	1.4677g -1.3977g 70.6mg	50	26C Scr:	2120 Alpha:	3/9/11 OAD Beta:	
2 ME6RC-1-AC J1C030622-2-SAMP 03/03/2011 09:20		6.02g,in AmtRec: 1XJAR120G #Containers: 1	SRTA20521 01/27/11		1.4858g -1.3932g 92.6mg		26D Scr:	Alpha:	Beta:	
3 ME6RD-1-AC J1C030622-3-SAMP 03/03/2011 09:55		6.04g,in AmtRec: 1XJAR120G #Containers: 1	SRTA20522 01/27/11		1.4965g -1.4000g 96.5mg		27A Scr:	Alpha:	Beta:	
4 ME6RD-1-AG-X J1C030622-3-DUP 03/03/2011 09:55		6.00g,in AmtRec: 1XJAR120G #Containers: 1	SRTA20523 01/27/11		1.4557g -1.3914g 64.3mg		27B Scr:	Alpha:	Beta:	
5 ME6RE-1-AC J1C030622-4-SAMP 03/03/2011 10:05		6.03g,in AmtRec: 1XJAR120G #Containers: 1	SRTA20524 01/27/11		1.4925g -1.4016g 92.9mg		27C Scr:	Alpha:	Beta:	
6 ME6RF-1-AC J1C030622-5-SAMP 03/03/2011 10:50		5.99g,in AmtRec: 1XJAR120G #Containers: 1	SRTA20525 01/27/11		1.4945g -1.4020g 92.5mg		27D Scr:	Alpha:	Beta:	
7 ME6RG-1-AC J1C030622-6-SAMP 03/03/2011 11:20		5.98g,in AmtRec: 1XJAR120G #Containers: 1	SRTA20526 01/27/11		1.4635g -1.3900g 73.5mg		28D Scr:	Alpha:	Beta:	

3/7/2011 5:52:06 AM

Sample Preparation/Analysis

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

PRIORITY

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

AnalyDueDate: 03/10/2011

Batch: 1063120 pCi/g
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 ME663-1-AA-B J1C040000-120-BLK		6.04g,in	SRTA20527 01/27/11	1.5	1.48629 50 -1.39945 86.8mg		31B	2120	3/9/11 DD	
03/04/2011 09:10 pd		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
9 ME663-1-AC-C J1C040000-120-LCS		5.97g,in	STSB1542 02/15/11		1.49439 -1.40739 87.0mg		31D			
03/04/2011 09:10 pd		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: ME6Q9-SAMP "Comments:Not enough sample for a gamma dup, please recount on a seperate detector. 3/6/2011 tgw"

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

ME6Q91AC-SAMP Constituent List:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
ME6631AA-BLK:
Sr-90 RDL:1 pCi/g LCL: UCL: RPD:
ME6631AC-LCS:
Sr-90 RDL:1 pCi/g LCL:70 UCL:130 RPD:35
ME6Q91AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
ME6631AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
ME6631AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

3/10/2011 12:21:58 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/10/2010, 3/15/2011, Batch: '1063120', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1063120						
AC		Rev1C	**WoodT**	3/6/2011 5:57:44 PM		
SC			wagarr	IsBatched	3/4/2011 9:11:15 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/6/2011 5:57:44 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/7/2011 5:51:46 AM	RL-PRP-003 REVISION 1
SC			BouslaughP	Prep1C	3/7/2011 10:21:09 AM	RL-PRP-003 REVISION 1
SC			AshworthA	Sep2C	3/9/2011 2:17:24 PM	RL-GPC-003 REVISION 1
SC			ClarkR	InCnt1	3/9/2011 2:23:22 PM	RL-CI-006 REVISION 1
SC			DawkinsO	CalcC	3/9/2011 10:51:55 PM	RL-CI-006 REVISION 1
SC			antonsonl	Rev1C	3/10/2011 12:21:52 PM	RL-DR-001 Rev 2
AC			**WoodT**	3/7/2011 5:51:46 AM		
AC			**BouslaughP**	3/7/2011 10:21:09		
AC			**AshworthA**	3/9/2011 2:17:24 PM		
AC			**ClarkR**	3/9/2011 2:23:22 PM		
AC			**DawkinsO**	3/9/2011 10:51:55 PM		
AC			**antonsonl**	3/10/2011 12:21:52		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.44

3/6/2011 5:22:48 PM

Sample Preparation/Analysis

Balance Id:1120421763

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/10/2011 JP0094

Sep1 DT/Tm Tech:

Batch: 1063111 OTHER pCi/g PM, Quote: RW , 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7SSR, 1063111 AXTA, 1063119 6ASO, 1063120 CHTH, 1063122 ANS5,

Prep Tech: WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 ME6Q9-1-AE J1C030622-1-SAMP 03/03/2011 08:30			45.50g,in AmtRec: 1XJAR120G	45.50g #Containers: 1		S25	200	G15 Scr:	1647 Alpha:	3/7/11 Beta:	
2 ME6Q9-1-AG-X J1C030622-1-DUP 03/03/2011 08:30			ISV AmtRec: 1XJAR120G	#Containers: 1				G11 Scr:	2019 Alpha:	3/7/11 0410 Beta:	
3 ME6RC-1-AE J1C030622-2-SAMP 03/03/2011 09:20			47.40g,in AmtRec: 1XJAR120G	47.40g #Containers: 1				G11 Scr:	1648 Alpha:	3/7/11 Beta:	
4 ME6RD-1-AE J1C030622-3-SAMP 03/03/2011 09:55			46.40g,in AmtRec: 1XJAR120G	46.40g #Containers: 1				G14 Scr:	1649 Alpha:	Beta:	
5 ME6RE-1-AE J1C030622-4-SAMP 03/03/2011 10:05			48.50g,in AmtRec: 1XJAR120G	48.50g #Containers: 1				G15 Scr:	2020 Alpha:	3/7/11 0410 Beta:	
6 ME6RF-1-AE J1C030622-5-SAMP 03/03/2011 10:50			48.60g,in AmtRec: 1XJAR120G	48.60g #Containers: 1				G14 Scr:	2022 Alpha:	Beta:	
7 ME6RG-1-AE J1C030622-6-SAMP 03/03/2011 11:20			40.00g,in AmtRec: 1XJAR120G	40.00g #Containers: 1				G14 Scr:	2024 Alpha:	Beta:	

TestAmerica Laboratories, Inc.

3/6/2011 5:22:50 PM

Sample Preparation/Analysis

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

PRIORITY

Balance Id:1120421763
Pipet #: _____

AnalyDueDate: 03/10/2011

Sep1 DT/Tm Tech:

Batch: 1063111 pCi/g
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	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 ME65F-1-AA-B J1C040000-111-BLK 03/04/2011 09:10 pd			52.00g,in AmtRec:	52.00g #Containers: 1	OSBK	S25	200	G11 Scr:	0036 Alpha:	3/7/11 DR Beta:	
9 ME65F-1-AC-C J1C040000-111-LCS 03/04/2011 09:10 pd			26.61g,in AmtRec:	26.61g #Containers: 1	CAL3122 01/01/03,pd 01/01/02,r	25		G5 Scr:	2312 Alpha:	3/7/11 DR Beta:	

Comments: ME6Q9-SAMP "Comments:Not enough sample for a gamma dup, please recount on a seperate detector. 3/6/2011 tgw"

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

ME6Q91AE-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:

ME65F1AA-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:

ME65F1AC-LCS:

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

ME6Q91AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
ME65F1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica Laboratories, Inc.

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3/6/2011 5:22:50 PM

Sample Preparation/Analysis

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

Balance Id:1120421763

Pipet #: _____

AnalyDueDate: 03/10/2011

Sep1 DT/Tm Tech:

Batch: 1063111 pCi/g

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

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

ME65F1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/8/2011 11:12:52 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/8/2010, 3/13/2011, Batch: '1063111', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
1063111						
AC		Rev1C	WoodT	3/6/2011 5:01:59 PM		
SC			wagarr	IsBatched	3/4/2011 9:11:15 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/6/2011 5:01:59 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/6/2011 5:32:53 PM	RL-PRP-003 REVISION 1
SC			WoodT	InPrep2	3/6/2011 5:33:01 PM	RL-GAM-001 REVISION 1
SC			WoodT	Prep2C	3/6/2011 5:33:10 PM	RL-GAM-001 REVISION 1
SC			BouslaughP	Prep1C	3/7/2011 11:47:48 AM	RL-PRP-003 REVISION 1
SC			BlackCL	InCnt1	3/7/2011 12:22:06 PM	RL-CI-007 REVISION 1
SC			BlackCL	CalcC	3/8/2011 9:35:59 AM	RL-CI-007 REVISION 1
SC			WhelandS	Rev1C	3/8/2011 11:12:30 AM	RL-DR-001 Rev 2
AC			WoodT	3/6/2011 5:32:53 PM		
AC			WoodT	3/6/2011 5:33:01 PM		
AC			WoodT	3/6/2011 5:33:10 PM		
AC			BouslaughP	3/7/2011 11:47:48		
AC			BlackCL	3/7/2011 12:22:06 PM		
AC			BlackCL	3/8/2011 9:35:59 AM		
AC			WhelandS	3/8/2011 11:12:30		

AC: Accepting Entry; SC: Status Change

3/7/2011 5:21:03 AM

Sample Preparation/Analysis

PRIORITY

Balance Id:1120373922

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Pipet #: _____

AnalyDueDate: 03/10/2011 UP0094

Sep1 DT/Tm Tech:

Batch: 1063122 OTHER pCi/g

PM, Quote: RW , 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: WoodT

TestAmerica Laboratories, Inc.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 ME6Q9-1-AF J1C030622-1-SAMP 03/03/2011 08:30		1.98g,in AmtRec: 1XJAR120G #Containers: 1		60		Scr:	Alpha:	Beta:
2 ME6RC-1-AF J1C030622-2-SAMP 03/03/2011 09:20		2.05g,in AmtRec: 1XJAR120G #Containers: 1				Scr:	Alpha:	Beta:
3 ME6RD-1-AF J1C030622-3-SAMP 03/03/2011 09:55		1.98g,in AmtRec: 1XJAR120G #Containers: 1				Scr:	Alpha:	Beta:
4 ME6RE-1-AF J1C030622-4-SAMP 03/03/2011 10:05		1.99g,in AmtRec: 1XJAR120G #Containers: 1				Scr:	Alpha:	Beta:
5 ME6RE-1-AG-X J1C030622-4-DUP 03/03/2011 10:05		1.99g,in AmtRec: 1XJAR120G #Containers: 1				Scr:	Alpha:	Beta:
6 ME6RF-1-AF J1C030622-5-SAMP 03/03/2011 10:50		2.03g,in AmtRec: 1XJAR120G #Containers: 1				Scr:	Alpha:	Beta:
7 ME6RF-1-AG-S J1C030622-5-MS 03/03/2011 10:50		2.07g,in AmtRec: 1XJAR120G #Containers: 1	TCSG3061 12/21/10,pd 01/01/87,r			Scr:	Alpha:	Beta:

3/7/2011 5:21:03 AM

Sample Preparation/Analysis

Balance Id:1120373922

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

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

PRIORITY

Pipet #: _____

AnalyDueDate: 03/10/2011

Sep1 DT/Tm Tech:

Batch: 1063122 OTHER pCi/g PM, Quote: RW , 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 ME6RG-1-AF J1C030622-6-SAMP 03/03/2011 11:20		2.01g,in AmtRec: 1XJAR120G	#Containers: 1	60		Scr:	Alpha:	Beta:
9 ME666-1-AA-B J1C040000-122-BLK 03/04/2011 09:10 pd		2.02g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 ME666-1-AC-C J1C040000-122-LCS 03/04/2011 09:10 pd		2.04g,in AmtRec:	TCSF1979 02/24/11,pd 07/01/05 r #Containers: 1			Scr:	Alpha:	Beta:
11 ME666-1-AD-BN J1C040000-122-IBLK 03/04/2011 09:10 pd		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: ME6Q9-SAMP "Comments:Not enough sample for a gamma dup, please recount on a seperate detector. 3/6/2011 tgw"

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

ME6Q91AF-SAMP Constituent List:
  Tc-99       RDL:15        pCi/g     LCL:70      UCL:130     RPD:35
ME6RF1AG-MS:

ME6661AA-BLK:
  Tc-99       RDL:15        pCi/g     LCL:        UCL:        RPD:
ME6661AC-LCS:
```


TestAmerica Laboratories, Inc.

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Sample Preparation/Analysis

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

PRIORITY

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

AnalyDueDate: 03/10/2011

Batch: 1063122 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:

```
 Tc-99        RDL:15          pCi/g     LCL:70      UCL:130     RPD:35
ME6661AD-IBLK:
 Tc-99        RDL:15          pCi/g     LCL:        UCL:        RPD:
ME6Q91AF-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
ME6RF1AG-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
ME6661AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
ME6661AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
ME6661AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


TestAmerica Laboratories, Inc.

3/11/2011 9:49:30 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/11/2010, 3/16/2011, Batch: '1063122', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
1063122						
AC		Rev1C	**WoodT**	3/6/2011 6:26:39 PM		
SC			wagarr	IsBatched	3/4/2011 9:11:15 AM	ICOC_RADCALC v4.8.49
SC			WoodT	InPrep	3/6/2011 6:26:39 PM	RL-PRP-003 REVISION 1
SC			WoodT	Prep1C	3/7/2011 5:20:30 AM	RL-PRP-003 REVISION 1
SC			DawkinsO	InCnt1	3/9/2011 4:40:03 PM	RL-CI-005 REVISION 1
SC			antonsonl	Rev1C	3/11/2011 9:49:21 AM	RL-DR-001 Rev 2
AC			**WoodT**	3/7/2011 5:20:30 AM		
AC			**DawkinsO**	3/9/2011 4:40:03 PM		
AC			**antonsonl**	3/11/2011 9:49:21		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 4

ICOCFractions v4.8.44

3/3/2011 11:13:49 PM

Sample Preparation/Analysis

Balance Id:

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

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

Pipet #:

AnalyDueDate: 03/10/2011

Sep1 DT/Tm Tech:

Batch: 1062411 OTHER mg/kg

PM, Quote: RW , 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 1062411 DWEA,

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 ME6QQ-1-AA J1C030621-1-SAMP 03/03/2011 08:30		AmtRec: 1XJAR6OMLG	#Containers: 1				Scr:	Alpha:		Beta:
2 ME6QQ-1-AC-S J1C030621-1-MS 03/03/2011 08:30		AmtRec: 1XJAR6OMLG	#Containers: 1				Scr:	Alpha:		Beta:
3 ME6QQ-1-AD-X J1C030621-1-DUP 03/03/2011 08:30		AmtRec: 1XJAR6OMLG	#Containers: 1				Scr:	Alpha:		Beta:
4 ME6QX-1-AA J1C030621-2-SAMP 03/03/2011 09:20		AmtRec: 1XJAR6OMLG	#Containers: 1				Scr:	Alpha:		Beta:
5 ME6Q0-1-AA J1C030621-3-SAMP 03/03/2011 09:55		AmtRec: 1XJAR6OMLG	#Containers: 1				Scr:	Alpha:		Beta:
6 ME6Q1-1-AA J1C030621-4-SAMP 03/03/2011 10:05		AmtRec: 1XJAR6OMLG	#Containers: 1				Scr:	Alpha:		Beta:
7 ME6Q2-1-AA J1C030621-5-SAMP 03/03/2011 10:50		AmtRec: 1XJAR6OMLG	#Containers: 1				Scr:	Alpha:		Beta:

3/3/2011 11:13:50 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: 03/10/2011

Batch: 1062411 OTHER mg/kg PM, Quote: RW , 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 ME6Q3-1-AA J1C030621-6-SAMP 03/03/2011 11:20		AmtRec: 1XJAR6OMLG	#Containers: 1						Scr: Alpha: Beta:	
9 ME6RM-1-AA-B J1C030000-411-BLK 03/03/2011 23:13 pd		AmtRec:	#Containers: 1						Scr: Alpha: Beta:	
10 ME6RM-1-AC-C J1C030000-411-LCS 03/03/2011 23:13 pd		AmtRec:	#Containers: 1						Scr: Alpha: Beta:	

Comments:

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

ME6QQ1AA-SAMP Constituent List:

ME6QQ1AC-MS Constituent List:

ME6RM1AA-BLK:

ME6RM1AC-LCS:

ME6QQ1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
ME6QQ1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
ME6RM1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

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

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 03/10/2011

Batch: 1062411 **mg/kg**

EQ Batch, Test: None

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

E6RM1AC-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: 280-13112-1

SDG Number: JP0094

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

RECEIVED
MAR 2011

Approved for release.
Kae E Yoder
Project Manager II
3/16/2011 3:48 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
03/16/2011

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: 280-13112-1

SDG #: JP0094
SAF#: RC-107

Date SDG Closed: March 4, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1DX70	280-13112-1	6010/7471/300.0/353.2/9045/WTPH-D+/ WTPH-G/1664/8260A/8082/8310	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ NWTPH-Gx/9071B/8260B/8082/8310
J1DX71	280-13112-2	6010/7471/300.0/353.2/9045/WTPH-D+/ WTPH-G/1664/8260A/8082/8310	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ NWTPH-Gx/9071B/8260B/8082/8310
J1DX72	280-13112-3	6010/7471/300.0/353.2/9045/WTPH-D+/ WTPH-G/1664/8260A/8082/8310	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ NWTPH-Gx/9071B/8260B/8082/8310
J1DX73	280-13112-4	6010/7471/300.0/353.2/9045/WTPH-D+/ WTPH-G/1664/8260A/8082/8310	6010B/7471A/9058M/353.2/9045C/NWTPH-Dx/ NWTPH-Gx/9071B/8260B/8082/8310
J1DX74	280-13112-5	6010/7471/300.0/353.2/9045/WTPH-D+/ WTPH-G/1664/8260A/8082/8310	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ NWTPH-Gx/9071B/8260B/8082/8310
J1DX75	280-13112-6	6010/7471/300.0/353.2/9045/WTPH-D+/ WTPH-G/1664/8260A/8082/8310	6010B/7471A/9056M/353.2/9045C/NWTPH-Dx/ NWTPH-Gx/9071B/8260B/8082/8310

The method substitutions noted above, as agreed to by all parties, have no technical impact on the data.

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

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

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

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

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

RECEIPT
The samples were received on 3/4/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.6 C and 2.4 C.

GC/MS VOLATILES - SW846 8260B
Surrogate Dibromofluoromethane failed the recovery criteria low in sample J1DX72. Evidence of matrix interference is present; therefore, corrective action is deemed unnecessary. The laboratory noted that the high pH of the sample caused the surrogate to degrade. The pH of the sample was 10.

The LCS/LCSD associated with batch 280-56222 exhibited percent recoveries outside the control limits, biased high, for 1,3-Dichlorobenzene. As this compound is not a constituent of concern for this project and all other LCS/LCSD recoveries are in control, data quality is not affected by this anomaly and corrective action is deemed unnecessary.

The MS/MSD performed on sample J1DX70 exhibited percent recoveries outside the control limits for Trichloroethene, and the associated sample result has been flagged "T". In addition, the RPD limit was exceeded for Carbon tetrachloride. 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 VOLATILES - NWTPH-Gx - GRO
No anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs
No 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".

A Continuing Calibration Verification (CCV) standard exhibited the %Difference (%D) value >15%, biased high, on the primary column for Benzo[b]fluoranthene (+24.5%). The overall mean %D is ≤15%; therefore, method criteria have been met and corrective action is deemed unnecessary. It can be noted that results for Benzo[b]fluoranthene were reported from the confirmation column where all compounds were within limits.

The MSD aliquot of the MS/MSD performed on sample J1DX71 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "N". In addition, the MSD exhibited RPD data and the surrogate recovery outside the control limits. The associated LCS and MS were 100% in control, and the associated parent sample surrogate was in control; therefore, corrective action was not initiated.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-55892 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Low levels of Barium, Calcium, Chromium, Magnesium and Mercury are present in the method blanks associated with batches 280-55892 and 280-55991, respectively. Because the concentrations in the method blanks are not present at levels greater than the reporting limits, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Calcium, Iron and Manganese in the Matrix Spike performed on sample J1DX70; therefore, control limits are not applicable.

The SW846 6010B duplicate analysis of sample J1DX70 exhibited RPD data outside the control limits for Chromium and Nickel, and the associated sample results have been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

The Mercury duplicate analysis of sample J1DX73 exhibited RPD data outside the control limits, and the associated sample result has been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GENERAL CHEMISTRY - MCAWW 353.2 - NITRATE+NITRITE as N
The duplicate analysis of sample J1DX71 exhibited RPD data outside the control limits, and the associated sample result has been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GENERAL CHEMISTRY - SW846 9056M - ANIONS
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high constituent concentration, the Sulfate analysis of samples J1DX70 and J1DX75 had to be performed at dilutions, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilutions required.

The Orthophosphate as P Matrix Spike performed on sample J1DX71 exhibited the percent recovery outside the control limits, 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 - SW846 9071B - OIL & GREASE (HEM)
Low levels of Oil & Grease (HEM) are present in the method blank associated with batch 280-56052. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

No other anomalies were encountered.

GENERAL CHEMISTRY - SW846 9045C - PH

No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	T	MS, MSD: Recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	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.
	*	Surrogate exceeds the control limit
GC VOA		
	U	Analyzed for but not detected.
	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.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Lab Section	Qualifier	Description
General Chemistry		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	M	Sample duplicate precision not met.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.
HPLC/IC		
	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.
	*	Surrogate exceeds the control limit

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Northwest - Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Gx	
Purge and Trap	TAL DEN		SW846 5030B
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
HEM	TAL DEN	SW846 9071B	
Soxhlet Extraction	TAL DEN		SW846 3540C
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: 280-13112-1
Sdg Number: JP0094

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
NWTPH NWTPH-Gx	Gaskill, Daniel B	DBG
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Stoltz, Katie	KS
MCAWW 353.2	Stosak, Lara E	LES
SW846 9045C	Taylor, Juli M	JMT
SW846 9056M	Phan, Thu L	TLP
SW846 9071B	Gheorghe, Philip A	PAG
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13112-1	J1DX70	Solid	03/03/2011 0830	03/04/2011 0930
280-13112-2	J1DX71	Solid	03/03/2011 0920	03/04/2011 0930
280-13112-3	J1DX72	Solid	03/03/2011 0955	03/04/2011 0930
280-13112-4	J1DX73	Solid	03/03/2011 1005	03/04/2011 0930
280-13112-5	J1DX74	Solid	03/03/2011 1050	03/04/2011 0930
280-13112-6	J1DX75	Solid	03/03/2011 1120	03/04/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5288.D
Dilution:	1.0			Initial Weight/Volume:	5.236 g
Date Analyzed:	03/08/2011 0954			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		9.2	J	5.6	21
Benzene		0.49	U	0.49	5.2
Bromodichloromethane		0.23	U	0.23	5.2
Bromoform		0.24	U	0.24	5.2
Bromomethane		0.52	U	0.52	10
2-Butanone (MEK)		1.9	U	1.9	10
Carbon disulfide		0.44	U	0.44	5.2
Carbon tetrachloride		0.66	U	0.66	5.2
Chlorobenzene		0.57	U	0.57	5.2
Dibromochloromethane		0.60	U	0.60	5.2
Chloroethane		0.93	U	0.93	10
Chloroform		0.30	U	0.30	5.2
Chloromethane		0.81	U	0.81	10
1,1-Dichloroethane		0.22	U	0.22	5.2
1,2-Dichloroethane		0.73	U	0.73	5.2
1,1-Dichloroethene		0.62	U	0.62	5.2
1,2-Dichloroethene, Total		0.41	U	0.41	5.2
1,2-Dichloropropane		0.58	U	0.58	5.2
cis-1,3-Dichloropropene		1.4	U	1.4	5.2
trans-1,3-Dichloropropene		0.70	U	0.70	5.2
Ethylbenzene		0.70	U	0.70	5.2
2-Hexanone		5.1	U	5.1	21
Methylene Chloride		0.79	U	0.79	5.2
4-Methyl-2-pentanone (MIBK)		4.6	U	4.6	10
Styrene		0.66	U	0.66	5.2
1,1,2,2-Tetrachloroethane		0.64	U	0.64	5.2
Tetrachloroethene		0.62	U	0.62	5.2
Toluene		0.72	U	0.72	5.2
1,1,1-Trichloroethane		0.54	U	0.54	5.2
1,1,2-Trichloroethane		0.92	U	0.92	5.2
Trichloroethene		0.24	U T	0.24	5.2
Vinyl chloride		1.4	U	1.4	5.2
Xylenes, Total		0.64	U	0.64	5.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		58 - 140
Toluene-d8 (Surr)	114		80 - 126
4-Bromofluorobenzene (Surr)	119		76 - 127
Dibromofluoromethane (Surr)	110		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5288.D
Dilution:	1.0			Initial Weight/Volume:	5.236 g
Date Analyzed:	03/08/2011 0954			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5289.D
Dilution:	1.0			Initial Weight/Volume:	5.641 g
Date Analyzed:	03/08/2011 1017			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		20	J	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.23	U	0.23	5.3
Bromoform		0.24	U	0.24	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		2.7	J	1.9	11
Carbon disulfide		0.45	U	0.45	5.3
Carbon tetrachloride		0.67	U	0.67	5.3
Chlorobenzene		0.57	U	0.57	5.3
Dibromochloromethane		0.61	U	0.61	5.3
Chloroethane		0.94	U	0.94	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.82	U	0.82	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.74	U	0.74	5.3
1,1-Dichloroethene		0.63	U	0.63	5.3
1,2-Dichloroethene, Total		0.41	U	0.41	5.3
1,2-Dichloropropane		0.58	U	0.58	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.71	U	0.71	5.3
Ethylbenzene		0.71	U	0.71	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.80	U	0.80	5.3
4-Methyl-2-pentanone (MIBK)		4.6	U	4.6	11
Styrene		0.67	U	0.67	5.3
1,1,2,2-Tetrachloroethane		0.65	U	0.65	5.3
Tetrachloroethene		0.63	U	0.63	5.3
Toluene		0.73	U	0.73	5.3
1,1,1-Trichloroethane		0.55	U	0.55	5.3
1,1,2-Trichloroethane		0.93	U	0.93	5.3
Trichloroethene		0.24	U	0.24	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		0.65	U	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	99		76 - 127
Dibromofluoromethane (Surr)	76		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5289.D
Dilution:	1.0			Initial Weight/Volume:	5.641 g
Date Analyzed:	03/08/2011 1017			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** 0

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7

Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5290.D
Dilution:	1.0			Initial Weight/Volume:	4.975 g
Date Analyzed:	03/08/2011 1040			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		58		5.9	22
Benzene		0.51	U	0.51	5.4
Bromodichloromethane		0.24	U	0.24	5.4
Bromoform		0.25	U	0.25	5.4
Bromomethane		0.54	U	0.54	11
2-Butanone (MEK)		8.5	J	2.0	11
Carbon disulfide		0.46	U	0.46	5.4
Carbon tetrachloride		0.69	U	0.69	5.4
Chlorobenzene		0.59	U	0.59	5.4
Dibromochloromethane		0.62	U	0.62	5.4
Chloroethane		0.97	U	0.97	11
Chloroform		0.32	U	0.32	5.4
Chloromethane		0.84	U	0.84	11
1,1-Dichloroethane		0.23	U	0.23	5.4
1,2-Dichloroethane		0.76	U	0.76	5.4
1,1-Dichloroethene		0.64	U	0.64	5.4
1,2-Dichloroethene, Total		0.42	U	0.42	5.4
1,2-Dichloropropane		0.60	U	0.60	5.4
cis-1,3-Dichloropropene		1.4	U	1.4	5.4
trans-1,3-Dichloropropene		0.73	U	0.73	5.4
Ethylbenzene		0.73	U	0.73	5.4
2-Hexanone		5.3	U	5.3	22
Methylene Chloride		0.82	U	0.82	5.4
4-Methyl-2-pentanone (MIBK)		4.7	U	4.7	11
Styrene		0.69	U	0.69	5.4
1,1,2,2-Tetrachloroethane		0.66	U	0.66	5.4
Tetrachloroethene		0.64	U	0.64	5.4
Toluene		0.75	U	0.75	5.4
1,1,1-Trichloroethane		0.57	U	0.57	5.4
1,1,2-Trichloroethane		0.96	U	0.96	5.4
Trichloroethene		0.25	U	0.25	5.4
Vinyl chloride		1.5	U	1.5	5.4
Xylenes, Total		0.66	U	0.66	5.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		58 - 140
Toluene-d8 (Surr)	95		80 - 126
4-Bromofluorobenzene (Surr)	98		76 - 127
Dibromofluoromethane (Surr)	55	*	75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7

Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5290.D
Dilution:	1.0			Initial Weight/Volume:	4.975 g
Date Analyzed:	03/08/2011 1040			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5291.D
Dilution:	1.0			Initial Weight/Volume:	5.085 g
Date Analyzed:	03/08/2011 1103			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.7	U	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.24	U	0.24	5.3
Bromoform		0.25	U	0.25	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.45	U	0.45	5.3
Carbon tetrachloride		0.67	U	0.67	5.3
Chlorobenzene		0.58	U	0.58	5.3
Dibromochloromethane		0.61	U	0.61	5.3
Chloroethane		0.95	U	0.95	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.82	U	0.82	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.75	U	0.75	5.3
1,1-Dichloroethene		0.63	U	0.63	5.3
1,2-Dichloroethene, Total		0.42	U	0.42	5.3
1,2-Dichloropropane		0.59	U	0.59	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.72	U	0.72	5.3
Ethylbenzene		0.72	U	0.72	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.80	U	0.80	5.3
4-Methyl-2-pentanone (MIBK)		4.7	U	4.7	11
Styrene		0.67	U	0.67	5.3
1,1,2,2-Tetrachloroethane		0.65	U	0.65	5.3
Tetrachloroethene		0.63	U	0.63	5.3
Toluene		0.74	U	0.74	5.3
1,1,1-Trichloroethane		0.56	U	0.56	5.3
1,1,2-Trichloroethane		0.94	U	0.94	5.3
Trichloroethene		0.25	U	0.25	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		0.65	U	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		58 - 140
Toluene-d8 (Surr)	88		80 - 126
4-Bromofluorobenzene (Surr)	95		76 - 127
Dibromofluoromethane (Surr)	89		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5291.D
Dilution:	1.0			Initial Weight/Volume:	5.085 g
Date Analyzed:	03/08/2011 1103			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5292.D
Dilution:	1.0			Initial Weight/Volume:	5.560 g
Date Analyzed:	03/08/2011 1125			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		32		5.1	19
Benzene		0.45	U	0.45	4.7
Bromodichloromethane		0.21	U	0.21	4.7
Bromoform		0.22	U	0.22	4.7
Bromomethane		0.47	U	0.47	9.5
2-Butanone (MEK)		5.4	J	1.7	9.5
Carbon disulfide		0.40	U	0.40	4.7
Carbon tetrachloride		0.60	U	0.60	4.7
Chlorobenzene		0.51	U	0.51	4.7
Dibromochloromethane		0.54	U	0.54	4.7
Chloroethane		0.84	U	0.84	9.5
Chloroform		0.28	U	0.28	4.7
Chloromethane		0.73	U	0.73	9.5
1,1-Dichloroethane		0.20	U	0.20	4.7
1,2-Dichloroethane		0.66	U	0.66	4.7
1,1-Dichloroethene		0.56	U	0.56	4.7
1,2-Dichloroethene, Total		0.37	U	0.37	4.7
1,2-Dichloropropane		0.52	U	0.52	4.7
cis-1,3-Dichloropropene		1.2	U	1.2	4.7
trans-1,3-Dichloropropene		0.64	U	0.64	4.7
Ethylbenzene		0.64	U	0.64	4.7
2-Hexanone		4.6	U	4.6	19
Methylene Chloride		0.71	U	0.71	4.7
4-Methyl-2-pentanone (MIBK)		4.1	U	4.1	9.5
Styrene		0.60	U	0.60	4.7
1,1,2,2-Tetrachloroethane		0.58	U	0.58	4.7
Tetrachloroethene		0.56	U	0.56	4.7
Toluene		0.65	U	0.65	4.7
1,1,1-Trichloroethane		0.49	U	0.49	4.7
1,1,2-Trichloroethane		0.84	U	0.84	4.7
Trichloroethene		0.22	U	0.22	4.7
Vinyl chloride		1.3	U	1.3	4.7
Xylenes, Total		0.58	U	0.58	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	95		80 - 126
4-Bromofluorobenzene (Surr)	101		76 - 127
Dibromofluoromethane (Surr)	79		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5292.D
Dilution:	1.0			Initial Weight/Volume:	5.560 g
Date Analyzed:	03/08/2011 1125			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462		Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222		Lab File ID:	J5293.D
Dilution:	1.0			Initial Weight/Volume:	5.580 g
Date Analyzed:	03/08/2011 1148			Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		22		5.2	19
Benzene		0.46	U	0.46	4.8
Bromodichloromethane		0.21	U	0.21	4.8
Bromoform		0.22	U	0.22	4.8
Bromomethane		0.48	U	0.48	9.7
2-Butanone (MEK)		3.6	J	1.8	9.7
Carbon disulfide		0.41	U	0.41	4.8
Carbon tetrachloride		0.61	U	0.61	4.8
Chlorobenzene		0.52	U	0.52	4.8
Dibromochloromethane		0.55	U	0.55	4.8
Chloroethane		0.86	U	0.86	9.7
Chloroform		0.28	U	0.28	4.8
Chloromethane		0.75	U	0.75	9.7
1,1-Dichloroethane		0.20	U	0.20	4.8
1,2-Dichloroethane		0.68	U	0.68	4.8
1,1-Dichloroethene		0.57	U	0.57	4.8
1,2-Dichloroethene, Total		0.38	U	0.38	4.8
1,2-Dichloropropane		0.53	U	0.53	4.8
cis-1,3-Dichloropropene		1.3	U	1.3	4.8
trans-1,3-Dichloropropene		0.65	U	0.65	4.8
Ethylbenzene		0.65	U	0.65	4.8
2-Hexanone		4.7	U	4.7	19
Methylene Chloride		0.73	U	0.73	4.8
4-Methyl-2-pentanone (MIBK)		4.2	U	4.2	9.7
Styrene		0.61	U	0.61	4.8
1,1,2,2-Tetrachloroethane		0.59	U	0.59	4.8
Tetrachloroethene		0.57	U	0.57	4.8
Toluene		0.67	U	0.67	4.8
1,1,1-Trichloroethane		0.50	U	0.50	4.8
1,1,2-Trichloroethane		0.85	U	0.85	4.8
Trichloroethene		0.22	U	0.22	4.8
Vinyl chloride		1.3	U	1.3	4.8
Xylenes, Total		0.59	U	0.59	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		58 - 140
Toluene-d8 (Surr)	94		80 - 126
4-Bromofluorobenzene (Surr)	100		76 - 127
Dibromofluoromethane (Surr)	87		75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-56462	Instrument ID:	MSV_J
Preparation:	5030B	Prep Batch: 280-56222	Lab File ID:	J5293.D
Dilution:	1.0		Initial Weight/Volume:	5.580 g
Date Analyzed:	03/08/2011 1148		Final Weight/Volume:	5 mL
Date Prepared:	03/08/2011 0600			

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Method:	NWTPH-Gx	Analysis Batch: 280-56422		Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch: 280-56122		Initial Weight/Volume:	10.05 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	03/08/2011 1644			Injection Volume:	5 mL
Date Prepared:	03/07/2011 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		500	J	350	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	87		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Method:	NWTPH-Gx	Analysis Batch: 280-56422	Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch: 280-56122	Initial Weight/Volume:	10.35 g
Dilution:	1.0		Final Weight/Volume:	500 mL
Date Analyzed:	03/08/2011 2046		Injection Volume:	5 mL
Date Prepared:	03/07/2011 1230		Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		380	U	380	1400

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	86		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7

Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Method:	NWTPH-Gx	Analysis Batch: 280-56422		Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch: 280-56122		Initial Weight/Volume:	10.27 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	03/08/2011 2124			Injection Volume:	5 mL
Date Prepared:	03/07/2011 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		430	J	340	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	91		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Method:	NWTPH-Gx	Analysis Batch: 280-56422		Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch: 280-56122		Initial Weight/Volume:	10.42 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	03/08/2011 2202			Injection Volume:	5 mL
Date Prepared:	03/07/2011 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		420	J	340	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	93		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Method:	NWTPH-Gx	Analysis Batch: 280-56422		Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch: 280-56122		Initial Weight/Volume:	10.34 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	03/08/2011 2241			Injection Volume:	5 mL
Date Prepared:	03/07/2011 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		330	U	330	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	97		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Method:	NWTPH-Gx	Analysis Batch: 280-56422		Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch: 280-56122		Initial Weight/Volume:	10.14 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	03/08/2011 2356			Injection Volume:	5 mL
Date Prepared:	03/07/2011 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		350	U	350	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	86		77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-56598		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-55975		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/09/2011 0324			Injection Volume:	1 uL
Date Prepared:	03/06/2011 1505			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		9.4	J	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	63		59 - 130
Tetrachloro-m-xylene	72		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-56598		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-55975		Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/09/2011 0345			Injection Volume:	1 uL
Date Prepared:	03/06/2011 1505			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.2	U	3.2	12
Aroclor 1221		9.4	U	9.4	19
Aroclor 1232		2.3	U	2.3	12
Aroclor 1242		5.5	U	5.5	12
Aroclor 1248		5.5	U	5.5	12
Aroclor 1254		3.0	U	3.0	12
Aroclor 1260		7.9	J	3.0	12

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	73		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7

Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-56598		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-55975		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/09/2011 0450			Injection Volume:	1 uL
Date Prepared:	03/06/2011 1505			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	67		59 - 130
Tetrachloro-m-xylene	67		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-56598		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-55975		Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/09/2011 0511			Injection Volume:	1 uL
Date Prepared:	03/06/2011 1505			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.4	U	8.4	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		4.8	J	2.7	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	71		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-56598		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-55975		Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/09/2011 0533			Injection Volume:	1 uL
Date Prepared:	03/06/2011 1505			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	69		59 - 130
Tetrachloro-m-xylene	70		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 280-56599		Instrument ID:	GCS_P3
Preparation:	3550C	Prep Batch: 280-55975		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Date Analyzed:	03/09/2011 0533			Injection Volume:	1 uL
Date Prepared:	03/06/2011 1505			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		2.2	U	2.2	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	75		59 - 130
Tetrachloro-m-xylene	79		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-56441		Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch: 280-55933		Lab File ID:	007F0701.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/08/2011 1716			Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		54000		1100	4300
C10-C28		18000		720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	111		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-56441	Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch: 280-55933	Lab File ID:	008F0801.D
Dilution:	1.0		Initial Weight/Volume:	32.8 g
Date Analyzed:	03/08/2011 1751		Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135		Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		21000		1100	4400
C10-C28		10000		740	4400

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	80		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7

Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-56441		Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch: 280-55933		Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Date Analyzed:	03/08/2011 1934			Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		21000		1100	4300
C10-C28		10000		730	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	84		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid

% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-56441		Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch: 280-55933		Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Date Analyzed:	03/08/2011 2008			Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		130000		1100	4300
C10-C28		72000		720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	55		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-56441	Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch: 280-55933	Lab File ID:	013F1301.D
Dilution:	1.0		Initial Weight/Volume:	30.0 g
Date Analyzed:	03/08/2011 2042		Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135		Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		4500		1100	4200
C10-C28		2000	J	720	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	97		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Method:	NWTPH-Dx	Analysis Batch: 280-56441		Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch: 280-55933		Lab File ID:	014F1401.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/08/2011 2116			Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		25000		1100	4300
C10-C28		11000		730	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	85		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-56239		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-55931		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/09/2011 1330			Injection Volume:	20 uL
Date Prepared:	03/05/2011 0115			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.6	U	9.6	110
Anthracene		120		3.3	21
Benzo[a]anthracene		280		3.4	16
Benzo[a]pyrene		170		6.9	16
Benzo[b]fluoranthene		160		4.5	16
Benzo[g,h,i]perylene		39	X	7.7	32
Benzo[k]fluoranthene		75		4.2	16
Chrysene		250		5.2	43
Dibenzo(a,h)anthracene		15	J X	12	32
Fluoranthene		620	X	14	43
Fluorene		58		5.6	32
Indeno[1,2,3-cd]pyrene		120		13	32
Naphthalene		13	U	13	110
Phenanthrene		560		13	43
Pyrene		770		13	43

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

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-56239		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-55931		Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/09/2011 1401			Injection Volume:	20 uL
Date Prepared:	03/05/2011 0115			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U N	12	120
Acenaphthylene		11	U N	11	120
Anthracene		3.6	U N	3.6	23
Benzo[a]anthracene		3.9	J X N	3.7	18
Benzo[a]pyrene		7.5	U N	7.5	18
Benzo[b]fluoranthene		4.9	U N	4.9	18
Benzo[g,h,i]perylene		8.4	U N	8.4	35
Benzo[k]fluoranthene		4.6	U N	4.6	18
Chrysene		13	J N	5.7	47
Dibenzo(a,h)anthracene		13	U N	13	35
Fluoranthene		22	J N	15	47
Fluorene		6.2	U N	6.2	35
Indeno[1,2,3-cd]pyrene		14	U N	14	35
Naphthalene		14	U N	14	120
Phenanthrene		14	J N	14	47
Pyrene		14	U N	14	47

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7

Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-56239		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-55931		Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/09/2011 1532			Injection Volume:	20 uL
Date Prepared:	03/05/2011 0115			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		3.4	U	3.4	16
Benzo[a]pyrene		6.9	U	6.9	16
Benzo[b]fluoranthene		4.5	U	4.5	16
Benzo[g,h,i]perylene		7.7	U	7.7	32
Benzo[k]fluoranthene		4.2	U	4.2	16
Chrysene		8.1	J	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		18	J	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	J X	13	43
Pyrene		13	U	13	43

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-56239		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-55931		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/09/2011 1603			Injection Volume:	20 uL
Date Prepared:	03/05/2011 0115			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		3.5	U	3.5	16
Benzo[a]pyrene		53		6.9	16
Benzo[b]fluoranthene		130		4.5	16
Benzo[g,h,i]perylene		26	J X	7.8	32
Benzo[k]fluoranthene		27	X	4.3	16
Chrysene		100		5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		240		14	43
Fluorene		18	J	5.7	32
Indeno[1,2,3-cd]pyrene		64		13	32
Naphthalene		13	U	13	110
Phenanthrene		130		13	43
Pyrene		290		13	43

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	96		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-56672		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-55931		Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/10/2011 1222			Injection Volume:	20 uL
Date Prepared:	03/05/2011 0115			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		24		3.2	15
Benzo[a]pyrene		18	X	6.5	15
Benzo[b]fluoranthene		20	X	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		10	J	4.0	15
Chrysene		28	J	4.9	41
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		22	J X	13	41
Fluorene		5.4	U	5.4	30
Indeno[1,2,3-cd]pyrene		16	J	12	30
Naphthalene		12	U	12	100
Phenanthrene		29	J	12	41
Pyrene		64		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-56239		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-55931		Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/09/2011 1704			Injection Volume:	20 uL
Date Prepared:	03/05/2011 0115			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		26	X	3.3	22
Benzo[a]anthracene		130		3.4	16
Benzo[a]pyrene		89	X	6.9	16
Benzo[b]fluoranthene		89		4.5	16
Benzo[g,h,i]perylene		24	J	7.8	32
Benzo[k]fluoranthene		36	X	4.2	16
Chrysene		110		5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		240		14	43
Fluorene		17	J	5.7	32
Indeno[1,2,3-cd]pyrene		64		13	32
Naphthalene		13	U	13	110
Phenanthrene		140		13	43
Pyrene		280		13	43

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

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-56373		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030811.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/08/2011 1552			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9160		1.7	5.3
Antimony		0.40	U	0.40	0.64
Arsenic		7.3		0.70	1.1
Barium		110		0.081	0.53
Beryllium		0.035	U	0.035	0.21
Boron		5.4		1.0	2.1
Cadmium		0.78		0.044	0.21
Calcium		42400	X	15.0	53.3
Chromium		10.0	M	0.062	0.21
Cobalt		6.4	X	0.11	1.1
Copper		19.1	X	0.23	1.1
Iron		17600	X	4.0	5.3
Lead		5.3		0.29	0.53
Magnesium		6200	X	3.9	21.3
Manganese		239	X	0.11	1.1
Molybdenum		0.52	B	0.28	2.1
Nickel		10.4	X M	0.13	4.3
Potassium		1540		43.7	320
Silicon		109		6.0	10.7
Silver		0.17	U	0.17	0.21
Sodium		973		62.9	128
Vanadium		44.6	X	0.10	2.1
Zinc		52.0	X	0.42	1.1

Method:	6010B	Analysis Batch: 280-56623		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030911.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/09/2011 1256			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		1.4		0.92	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-56252		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-55991		Lab File ID:	110307AE.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	03/07/2011 1654			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2011 0820				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.0060	0.018

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-56373		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030811.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Date Analyzed:	03/08/2011 1613			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		12300		1.8	5.6
Antimony		0.79		0.43	0.68
Arsenic		36.9		0.75	1.1
Barium		126		0.086	0.56
Beryllium		0.037	U	0.037	0.23
Boron		5.3		1.1	2.3
Cadmium		0.21	B	0.046	0.23
Calcium		84700	X	15.9	56.5
Chromium		14.3		0.066	0.23
Cobalt		8.6	X	0.11	1.1
Copper		43.4	X	0.25	1.1
Iron		19200	X	4.3	5.6
Lead		12.1		0.31	0.56
Magnesium		5690	X	4.2	22.6
Manganese		290	X	0.11	1.1
Molybdenum		1.1	B	0.29	2.3
Nickel		13.4	X	0.14	4.5
Potassium		1600		46.3	339
Silicon		64.6		6.4	11.3
Silver		0.18	U	0.18	0.23
Sodium		999		66.7	136
Vanadium		55.3	X	0.11	2.3
Zinc		110	X	0.45	1.1

Method:	6010B	Analysis Batch: 280-56623		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030911.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Date Analyzed:	03/09/2011 1315			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.97	U	0.97	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-56252		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-55991		Lab File ID:	110307AE.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	03/07/2011 1656			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2011 0820				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.035		0.0063	0.019

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7

Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-56373		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030811.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/08/2011 1615			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11400		1.6	5.3
Antimony		1.8		0.40	0.63
Arsenic		58.2		0.69	1.1
Barium		118		0.080	0.53
Beryllium		0.035	U	0.035	0.21
Boron		9.7		1.0	2.1
Cadmium		0.55		0.043	0.21
Calcium		100000	X	14.8	52.6
Chromium		14.1		0.061	0.21
Cobalt		9.2	X	0.11	1.1
Copper		52.0	X	0.23	1.1
Iron		17000	X	4.0	5.3
Lead		4.9		0.28	0.53
Magnesium		7470	X	3.9	21.0
Manganese		281	X	0.11	1.1
Molybdenum		0.89	B	0.27	2.1
Nickel		10.7	X	0.13	4.2
Potassium		1580		43.1	316
Silicon		70.1		6.0	10.5
Silver		0.17	U	0.17	0.21
Sodium		950		62.1	126
Vanadium		47.2	X	0.099	2.1
Zinc		122	X	0.42	1.1

Method:	6010B	Analysis Batch: 280-56623		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030911.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/09/2011 1317			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.90	U	0.90	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-56252		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-55991		Lab File ID:	110307AE.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	03/07/2011 1658			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2011 0820				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.090		0.0059	0.018

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-56373		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030811.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/08/2011 1618			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10100		1.6	5.3
Antimony		0.64		0.40	0.63
Arsenic		36.3		0.70	1.1
Barium		114		0.080	0.53
Beryllium		0.035	U	0.035	0.21
Boron		6.2		1.0	2.1
Cadmium		0.94		0.043	0.21
Calcium		72100	X	14.9	52.8
Chromium		13.3		0.061	0.21
Cobalt		8.1	X	0.11	1.1
Copper		42.2	X	0.23	1.1
Iron		17000	X	4.0	5.3
Lead		17.3		0.28	0.53
Magnesium		6890	X	3.9	21.1
Manganese		276	X	0.11	1.1
Molybdenum		0.56	B	0.27	2.1
Nickel		15.7	X	0.13	4.2
Potassium		1680		43.3	317
Silicon		170		6.0	10.6
Silver		0.17	U	0.17	0.21
Sodium		833		62.2	127
Vanadium		45.5	X	0.099	2.1
Zinc		164	X	0.42	1.1

Method:	6010B	Analysis Batch: 280-56623		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030911.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/09/2011 1320			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		1.2		0.91	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-56252		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-55991		Lab File ID:	110307AE.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Date Analyzed:	03/07/2011 1705			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2011 0820				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.15	M	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-56373		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030811.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/08/2011 1620			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10800		1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		20.6		0.68	1.0
Barium		112		0.078	0.51
Beryllium		0.034	U	0.034	0.20
Boron		10.3		1.0	2.0
Cadmium		0.57		0.042	0.20
Calcium		66800	X	14.4	51.2
Chromium		11.0		0.059	0.20
Cobalt		7.1	X	0.10	1.0
Copper		29.8	X	0.22	1.0
Iron		18400	X	3.9	5.1
Lead		13.8		0.28	0.51
Magnesium		7370	X	3.8	20.5
Manganese		261	X	0.10	1.0
Molybdenum		0.41	B	0.27	2.0
Nickel		11.3	X	0.13	4.1
Potassium		1800		42.0	307
Silicon		69.5		5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		858		60.4	123
Vanadium		51.8	X	0.096	2.0
Zinc		121	X	0.41	1.0

Method:	6010B	Analysis Batch: 280-56623		Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-55892		Lab File ID:	25A1030911.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Date Analyzed:	03/09/2011 1322			Final Weight/Volume:	100 mL
Date Prepared:	03/07/2011 1430				

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

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-56252		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-55991		Lab File ID:	110307AE.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	03/07/2011 1712			Final Weight/Volume:	50 mL
Date Prepared:	03/07/2011 0820				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.0057	0.018

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/08/2011 1623
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56373
Prep Batch: 280-55892

Instrument ID: MT_025
Lab File ID: 25A1030811.asc
Initial Weight/Volume: 1.19 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10900		1.4	4.5
Antimony		0.96		0.35	0.55
Arsenic		34.9		0.60	0.91
Barium		113		0.069	0.45
Beryllium		0.034	B	0.030	0.18
Boron		11.3		0.89	1.8
Cadmium		0.34		0.037	0.18
Calcium		71200	X	12.8	45.4
Chromium		24.3		0.053	0.18
Cobalt		8.7	X	0.091	0.91
Copper		47.9	X	0.20	0.91
Iron		27300	X	3.5	4.5
Lead		8.8		0.25	0.45
Magnesium		6510	X	3.4	18.2
Manganese		338	X	0.091	0.91
Molybdenum		2.0		0.24	1.8
Nickel		17.0	X	0.11	3.6
Potassium		1580		37.3	273
Silicon		56.5		5.1	9.1
Silver		0.15	U	0.15	0.18
Sodium		1120		53.6	109
Vanadium		52.9	X	0.085	1.8
Zinc		123	X	0.36	0.91

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/09/2011 1325
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56623
Prep Batch: 280-55892

Instrument ID: MT_025
Lab File ID: 25A1030911.asc
Initial Weight/Volume: 1.19 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Selenium		0.82	B	0.78	0.91

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/07/2011 1714
Date Prepared: 03/07/2011 0820

Analysis Batch: 280-56252
Prep Batch: 280-55991

Instrument ID: MT_033
Lab File ID: 110307AE.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.0060	0.018

General Chemistry

Client Sample ID: **J1DX70**

Lab Sample ID: 280-13112-1
Client Matrix: Solid
% Moisture: 8.9

Date Sampled: 03/03/2011 0830
Date Received: 03/04/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.71	B	mg/Kg	0.38	0.80	1.0	353.2
Analysis Batch: 280-56590	Date Analyzed: 03/09/2011 1240						DryWt Corrected: Y
Chloride-Soluble	4.7	B	mg/Kg	2.1	5.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1557						DryWt Corrected: Y
Nitrate as N-Soluble	0.97	B	mg/Kg	0.34	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1557						DryWt Corrected: Y
Bromide-Soluble	0.42	U	mg/Kg	0.42	2.2	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1557						DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1557						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.4	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1557						DryWt Corrected: Y
Sulfate-Soluble	626	D	mg/Kg	9.3	26.9	5.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1850						DryWt Corrected: Y
Fluoride-Soluble	1.0	B	mg/Kg	0.88	5.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1557						DryWt Corrected: Y
Oil & Grease (HEM)	313	B C	mg/Kg	88.4	521	1.0	9071B
Analysis Batch: 280-56085	Date Analyzed: 03/07/2011 1113						DryWt Corrected: Y
Prep Batch: 280-56052	Date Prepared: 03/07/2011 1019						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.95		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-55958	Date Analyzed: 03/05/2011 1251						DryWt Corrected: N
Percent Moisture	8.9		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-56050	Date Analyzed: 03/07/2011 1012						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1DX71**

Lab Sample ID: 280-13112-2
Client Matrix: Solid
% Moisture: 16.5

Date Sampled: 03/03/2011 0920
Date Received: 03/04/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	6.7	M	mg/Kg	0.42	0.87	1.0	353.2
Analysis Batch: 280-56590	Date Analyzed: 03/09/2011 1241						DryWt Corrected: Y
Chloride-Soluble	9.5		mg/Kg	2.3	5.9	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1615						DryWt Corrected: Y
Nitrate as N-Soluble	4.7		mg/Kg	0.37	3.0	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1615						DryWt Corrected: Y
Bromide-Soluble	0.46	U	mg/Kg	0.46	2.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1615						DryWt Corrected: Y
Nitrite as N-Soluble	0.40	U	mg/Kg	0.40	3.0	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1615						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.5	U N	mg/Kg	1.5	5.9	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1615						DryWt Corrected: Y
Sulfate-Soluble	234		mg/Kg	2.1	5.9	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1615						DryWt Corrected: Y
Fluoride-Soluble	3.5	B	mg/Kg	0.97	5.9	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1615						DryWt Corrected: Y
Oil & Grease (HEM)	149	B C	mg/Kg	97.3	574	1.0	9071B
Analysis Batch: 280-56085	Date Analyzed: 03/07/2011 1113						DryWt Corrected: Y
Prep Batch: 280-56052	Date Prepared: 03/07/2011 1019						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	11.5		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-55958	Date Analyzed: 03/05/2011 1253						DryWt Corrected: N
Percent Moisture	16.5		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-56050	Date Analyzed: 03/07/2011 1012						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1DX72**

Lab Sample ID: 280-13112-3
Client Matrix: Solid
% Moisture: 7.7
Date Sampled: 03/03/2011 0955
Date Received: 03/04/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	13.7		mg/Kg	0.38	0.79	1.0	353.2
Analysis Batch: 280-56590	Date Analyzed: 03/09/2011 1246						DryWt Corrected: Y
Chloride-Soluble	5.2	B	mg/Kg	2.2	5.6	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1741						DryWt Corrected: Y
Nitrate as N-Soluble	8.9		mg/Kg	0.35	2.8	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1741						DryWt Corrected: Y
Bromide-Soluble	0.43	U	mg/Kg	0.43	2.2	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1741						DryWt Corrected: Y
Nitrite as N-Soluble	0.59	B	mg/Kg	0.38	2.8	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1741						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.4	U	mg/Kg	1.4	5.6	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1741						DryWt Corrected: Y
Sulfate-Soluble	159		mg/Kg	1.9	5.6	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1741						DryWt Corrected: Y
Fluoride-Soluble	8.1		mg/Kg	0.92	5.6	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1741						DryWt Corrected: Y
Oil & Grease (HEM)	107	B C	mg/Kg	90.6	534	1.0	9071B
Analysis Batch: 280-56085	Date Analyzed: 03/07/2011 1113						DryWt Corrected: Y
Prep Batch: 280-56052	Date Prepared: 03/07/2011 1019						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	11.8		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-55958	Date Analyzed: 03/05/2011 1255						DryWt Corrected: N
Percent Moisture	7.7		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-56050	Date Analyzed: 03/07/2011 1012						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

General Chemistry

Client Sample ID: **J1DX73**

Lab Sample ID: 280-13112-4
Client Matrix: Solid
% Moisture: 8.0

Date Sampled: 03/03/2011 1005
Date Received: 03/04/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.61	B	mg/Kg	0.38	0.80	1.0	353.2
Analysis Batch: 280-56590	Date Analyzed: 03/09/2011 1247						DryWt Corrected: Y
Chloride-Soluble	4.1	B	mg/Kg	2.1	5.3	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1758						DryWt Corrected: Y
Nitrate as N-Soluble	1.0	B	mg/Kg	0.33	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1758						DryWt Corrected: Y
Bromide-Soluble	0.41	U	mg/Kg	0.41	2.1	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1758						DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1758						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.3	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1758						DryWt Corrected: Y
Sulfate-Soluble	284		mg/Kg	1.8	5.3	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1758						DryWt Corrected: Y
Fluoride-Soluble	1.3	B	mg/Kg	0.88	5.3	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1758						DryWt Corrected: Y
Oil & Grease (HEM)	343	B C	mg/Kg	85.5	504	1.0	9071B
Analysis Batch: 280-56085	Date Analyzed: 03/07/2011 1113						DryWt Corrected: Y
Prep Batch: 280-56052	Date Prepared: 03/07/2011 1019						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	9.68		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-55958	Date Analyzed: 03/05/2011 1201						DryWt Corrected: N
Percent Moisture	8.0		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-56050	Date Analyzed: 03/07/2011 1012						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1DX74**

Lab Sample ID: 280-13112-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/03/2011 1050
Date Received: 03/04/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	1.9		mg/Kg	0.36	0.75	1.0	353.2
Analysis Batch: 280-56590	Date Analyzed: 03/09/2011 1249						DryWt Corrected: Y
Chloride-Soluble	14.3		mg/Kg	2.1	5.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1816						DryWt Corrected: Y
Nitrate as N-Soluble	1.9	B	mg/Kg	0.34	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1816						DryWt Corrected: Y
Bromide-Soluble	0.42	U	mg/Kg	0.42	2.2	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1816						DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1816						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.4	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1816						DryWt Corrected: Y
Sulfate-Soluble	279		mg/Kg	1.9	5.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1816						DryWt Corrected: Y
Fluoride-Soluble	3.0	B	mg/Kg	0.89	5.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1816						DryWt Corrected: Y
Oil & Grease (HEM)	85.1	U	mg/Kg	85.1	502	1.0	9071B
Analysis Batch: 280-56085	Date Analyzed: 03/07/2011 1113						DryWt Corrected: Y
Prep Batch: 280-56052	Date Prepared: 03/07/2011 1019						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	10.8		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-55958	Date Analyzed: 03/05/2011 1255						DryWt Corrected: N
Percent Moisture	5.2		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-56050	Date Analyzed: 03/07/2011 1012						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

General Chemistry

Client Sample ID: **J1DX75**

Lab Sample ID: 280-13112-6
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 03/03/2011 1120
Date Received: 03/04/2011 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	4.1		mg/Kg	0.38	0.80	1.0	353.2
Analysis Batch: 280-56590	Date Analyzed: 03/09/2011 1250						DryWt Corrected: Y
Chloride-Soluble	20.1		mg/Kg	2.1	5.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1833						DryWt Corrected: Y
Nitrate as N-Soluble	3.1		mg/Kg	0.34	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1833						DryWt Corrected: Y
Bromide-Soluble	0.42	U	mg/Kg	0.42	2.1	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1833						DryWt Corrected: Y
Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	2.7	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1833						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.4	1.0	9056M
Analysis Batch: 280-56312	Date Analyzed: 03/07/2011 1833						DryWt Corrected: Y
Sulfate-Soluble	573	D	mg/Kg	9.3	26.8	5.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1908						DryWt Corrected: Y
Fluoride-Soluble	2.0	B	mg/Kg	0.88	5.4	1.0	9056M
Analysis Batch: 280-56311	Date Analyzed: 03/07/2011 1833						DryWt Corrected: Y
Oil & Grease (HEM)	203	B C	mg/Kg	90.5	534	1.0	9071B
Analysis Batch: 280-56085	Date Analyzed: 03/07/2011 1113						DryWt Corrected: Y
Prep Batch: 280-56052	Date Prepared: 03/07/2011 1019						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	10.6		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-55958	Date Analyzed: 03/05/2011 1256						DryWt Corrected: N
Percent Moisture	7.5		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-56050	Date Analyzed: 03/07/2011 1012						DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-56222					
LCS 280-56222/2-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-56222/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-56222/1-A	Method Blank	T	Solid	5030B	
280-13112-1	J1DX70	T	Solid	5030B	
280-13112-1MS	Matrix Spike	T	Solid	5030B	
280-13112-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
280-13112-2	J1DX71	T	Solid	5030B	
280-13112-3	J1DX72	T	Solid	5030B	
280-13112-4	J1DX73	T	Solid	5030B	
280-13112-5	J1DX74	T	Solid	5030B	
280-13112-6	J1DX75	T	Solid	5030B	
Analysis Batch:280-56462					
LCS 280-56222/2-A	Lab Control Sample	T	Solid	8260B	280-56222
LCSD 280-56222/3-A	Lab Control Sample Duplicate	T	Solid	8260B	280-56222
MB 280-56222/1-A	Method Blank	T	Solid	8260B	280-56222
280-13112-1	J1DX70	T	Solid	8260B	280-56222
280-13112-1MS	Matrix Spike	T	Solid	8260B	280-56222
280-13112-1MSD	Matrix Spike Duplicate	T	Solid	8260B	280-56222
280-13112-2	J1DX71	T	Solid	8260B	280-56222
280-13112-3	J1DX72	T	Solid	8260B	280-56222
280-13112-4	J1DX73	T	Solid	8260B	280-56222
280-13112-5	J1DX74	T	Solid	8260B	280-56222
280-13112-6	J1DX75	T	Solid	8260B	280-56222

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-56122					
LCS 280-56122/1-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-56122/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-56122/3-A	Method Blank	T	Solid	5030B	
280-13112-1	J1DX70	T	Solid	5030B	
280-13112-1MS	Matrix Spike	T	Solid	5030B	
280-13112-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
280-13112-2	J1DX71	T	Solid	5030B	
280-13112-3	J1DX72	T	Solid	5030B	
280-13112-4	J1DX73	T	Solid	5030B	
280-13112-5	J1DX74	T	Solid	5030B	
280-13112-6	J1DX75	T	Solid	5030B	
Analysis Batch:280-56422					
LCS 280-56122/1-A	Lab Control Sample	T	Solid	NWTPH-Gx	280-56122
LCSD 280-56122/2-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	280-56122
MB 280-56122/3-A	Method Blank	T	Solid	NWTPH-Gx	280-56122
280-13112-1	J1DX70	T	Solid	NWTPH-Gx	280-56122
280-13112-1MS	Matrix Spike	T	Solid	NWTPH-Gx	280-56122
280-13112-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Gx	280-56122
280-13112-2	J1DX71	T	Solid	NWTPH-Gx	280-56122
280-13112-3	J1DX72	T	Solid	NWTPH-Gx	280-56122
280-13112-4	J1DX73	T	Solid	NWTPH-Gx	280-56122
280-13112-5	J1DX74	T	Solid	NWTPH-Gx	280-56122
280-13112-6	J1DX75	T	Solid	NWTPH-Gx	280-56122

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-55933					
LCS 280-55933/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-55933/1-A	Method Blank	T	Solid	3550C	
280-13112-1	J1DX70	T	Solid	3550C	
280-13112-2	J1DX71	T	Solid	3550C	
280-13112-2MS	Matrix Spike	T	Solid	3550C	
280-13112-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13112-3	J1DX72	T	Solid	3550C	
280-13112-4	J1DX73	T	Solid	3550C	
280-13112-5	J1DX74	T	Solid	3550C	
280-13112-6	J1DX75	T	Solid	3550C	
Prep Batch: 280-55975					
LCS 280-55975/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-55975/1-A	Method Blank	T	Solid	3550C	
280-13112-1	J1DX70	T	Solid	3550C	
280-13112-2	J1DX71	T	Solid	3550C	
280-13112-2MS	Matrix Spike	T	Solid	3550C	
280-13112-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13112-3	J1DX72	T	Solid	3550C	
280-13112-4	J1DX73	T	Solid	3550C	
280-13112-5	J1DX74	T	Solid	3550C	
280-13112-6	J1DX75	T	Solid	3550C	
Analysis Batch:280-56441					
LCS 280-55933/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-55933
MB 280-55933/1-A	Method Blank	T	Solid	NWTPH-Dx	280-55933
280-13112-1	J1DX70	T	Solid	NWTPH-Dx	280-55933
280-13112-2	J1DX71	T	Solid	NWTPH-Dx	280-55933
280-13112-2MS	Matrix Spike	T	Solid	NWTPH-Dx	280-55933
280-13112-2MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-55933
280-13112-3	J1DX72	T	Solid	NWTPH-Dx	280-55933
280-13112-4	J1DX73	T	Solid	NWTPH-Dx	280-55933
280-13112-5	J1DX74	T	Solid	NWTPH-Dx	280-55933
280-13112-6	J1DX75	T	Solid	NWTPH-Dx	280-55933

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-56598					
LCS 280-55975/2-A	Lab Control Sample	T	Solid	8082	280-55975
MB 280-55975/1-A	Method Blank	T	Solid	8082	280-55975
280-13112-1	J1DX70	T	Solid	8082	280-55975
280-13112-2	J1DX71	T	Solid	8082	280-55975
280-13112-2MS	Matrix Spike	T	Solid	8082	280-55975
280-13112-2MSD	Matrix Spike Duplicate	T	Solid	8082	280-55975
280-13112-3	J1DX72	T	Solid	8082	280-55975
280-13112-4	J1DX73	T	Solid	8082	280-55975
280-13112-5	J1DX74	T	Solid	8082	280-55975
280-13112-6	J1DX75	T	Solid	8082	280-55975
Analysis Batch:280-56599					
LCS 280-55975/2-A	Lab Control Sample	T	Solid	8082	280-55975
MB 280-55975/1-A	Method Blank	T	Solid	8082	280-55975
280-13112-1	J1DX70	T	Solid	8082	280-55975
280-13112-2	J1DX71	T	Solid	8082	280-55975
280-13112-2MS	Matrix Spike	T	Solid	8082	280-55975
280-13112-2MSD	Matrix Spike Duplicate	T	Solid	8082	280-55975
280-13112-4	J1DX73	T	Solid	8082	280-55975
280-13112-6	J1DX75	T	Solid	8082	280-55975

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-55892					
LCS 280-55892/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-55892/1-A	Method Blank	T	Solid	3050B	
280-13112-1	J1DX70	T	Solid	3050B	
280-13112-1DU	Duplicate	T	Solid	3050B	
280-13112-1MS	Matrix Spike	T	Solid	3050B	
280-13112-2	J1DX71	T	Solid	3050B	
280-13112-3	J1DX72	T	Solid	3050B	
280-13112-4	J1DX73	T	Solid	3050B	
280-13112-5	J1DX74	T	Solid	3050B	
280-13112-6	J1DX75	T	Solid	3050B	
Prep Batch: 280-55991					
LCS 280-55991/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-55991/1-A	Method Blank	T	Solid	7471A	
280-13112-1	J1DX70	T	Solid	7471A	
280-13112-2	J1DX71	T	Solid	7471A	
280-13112-3	J1DX72	T	Solid	7471A	
280-13112-4	J1DX73	T	Solid	7471A	
280-13112-4DU	Duplicate	T	Solid	7471A	
280-13112-4MS	Matrix Spike	T	Solid	7471A	
280-13112-5	J1DX74	T	Solid	7471A	
280-13112-6	J1DX75	T	Solid	7471A	
Analysis Batch:280-56252					
LCS 280-55991/2-A	Lab Control Sample	T	Solid	7471A	280-55991
MB 280-55991/1-A	Method Blank	T	Solid	7471A	280-55991
280-13112-1	J1DX70	T	Solid	7471A	280-55991
280-13112-2	J1DX71	T	Solid	7471A	280-55991
280-13112-3	J1DX72	T	Solid	7471A	280-55991
280-13112-4	J1DX73	T	Solid	7471A	280-55991
280-13112-4DU	Duplicate	T	Solid	7471A	280-55991
280-13112-4MS	Matrix Spike	T	Solid	7471A	280-55991
280-13112-5	J1DX74	T	Solid	7471A	280-55991
280-13112-6	J1DX75	T	Solid	7471A	280-55991

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-56373					
LCS 280-55892/2-A	Lab Control Sample	T	Solid	6010B	280-55892
MB 280-55892/1-A	Method Blank	T	Solid	6010B	280-55892
280-13112-1	J1DX70	T	Solid	6010B	280-55892
280-13112-1DU	Duplicate	T	Solid	6010B	280-55892
280-13112-1MS	Matrix Spike	T	Solid	6010B	280-55892
280-13112-2	J1DX71	T	Solid	6010B	280-55892
280-13112-3	J1DX72	T	Solid	6010B	280-55892
280-13112-4	J1DX73	T	Solid	6010B	280-55892
280-13112-5	J1DX74	T	Solid	6010B	280-55892
280-13112-6	J1DX75	T	Solid	6010B	280-55892
Analysis Batch:280-56623					
LCS 280-55892/2-A	Lab Control Sample	T	Solid	6010B	280-55892
MB 280-55892/1-A	Method Blank	T	Solid	6010B	280-55892
280-13112-1	J1DX70	T	Solid	6010B	280-55892
280-13112-1DU	Duplicate	T	Solid	6010B	280-55892
280-13112-1MS	Matrix Spike	T	Solid	6010B	280-55892
280-13112-2	J1DX71	T	Solid	6010B	280-55892
280-13112-3	J1DX72	T	Solid	6010B	280-55892
280-13112-4	J1DX73	T	Solid	6010B	280-55892
280-13112-5	J1DX74	T	Solid	6010B	280-55892
280-13112-6	J1DX75	T	Solid	6010B	280-55892

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-55945					
280-13112-1	J1DX70	S	Solid	DI Leach	
280-13112-1DU	Duplicate	S	Solid	DI Leach	
280-13112-2	J1DX71	S	Solid	DI Leach	
280-13112-3	J1DX72	S	Solid	DI Leach	
280-13112-4	J1DX73	S	Solid	DI Leach	
280-13112-4DU	Duplicate	S	Solid	DI Leach	
280-13112-5	J1DX74	S	Solid	DI Leach	
280-13112-6	J1DX75	S	Solid	DI Leach	
Analysis Batch:280-55958					
LCS 280-55958/12	Lab Control Sample	T	Water	9045C	
LCS 280-55958/4	Lab Control Sample	T	Water	9045C	
LCSD 280-55958/13	Lab Control Sample Duplicate	T	Water	9045C	
LCSD 280-55958/5	Lab Control Sample Duplicate	T	Water	9045C	
280-13112-1	J1DX70	S	Solid	9045C	
280-13112-1DU	Duplicate	S	Solid	9045C	
280-13112-2	J1DX71	S	Solid	9045C	
280-13112-3	J1DX72	S	Solid	9045C	
280-13112-4	J1DX73	S	Solid	9045C	
280-13112-4DU	Duplicate	S	Solid	9045C	
280-13112-5	J1DX74	S	Solid	9045C	
280-13112-6	J1DX75	S	Solid	9045C	
Prep Batch: 280-56000					
LCS 280-56000/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-56000/1-A	Method Blank	S	Solid	DI Leach	
280-13112-1	J1DX70	S	Solid	DI Leach	
280-13112-2	J1DX71	S	Solid	DI Leach	
280-13112-2DU	Duplicate	S	Solid	DI Leach	
280-13112-2MS	Matrix Spike	S	Solid	DI Leach	
280-13112-3	J1DX72	S	Solid	DI Leach	
280-13112-4	J1DX73	S	Solid	DI Leach	
280-13112-5	J1DX74	S	Solid	DI Leach	
280-13112-6	J1DX75	S	Solid	DI Leach	
Analysis Batch:280-56050					
280-13112-1	J1DX70	T	Solid	D-2216	
280-13112-1DU	Duplicate	T	Solid	D-2216	
280-13112-2	J1DX71	T	Solid	D-2216	
280-13112-3	J1DX72	T	Solid	D-2216	
280-13112-4	J1DX73	T	Solid	D-2216	
280-13112-5	J1DX74	T	Solid	D-2216	
280-13112-6	J1DX75	T	Solid	D-2216	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-56052					
LCS 280-56052/2-A	Lab Control Sample	T	Solid	3540C	
MB 280-56052/1-A	Method Blank	T	Solid	3540C	
280-13112-1	J1DX70	T	Solid	3540C	
280-13112-2	J1DX71	T	Solid	3540C	
280-13112-2DU	Duplicate	T	Solid	3540C	
280-13112-2MS	Matrix Spike	T	Solid	3540C	
280-13112-3	J1DX72	T	Solid	3540C	
280-13112-4	J1DX73	T	Solid	3540C	
280-13112-5	J1DX74	T	Solid	3540C	
280-13112-6	J1DX75	T	Solid	3540C	
Analysis Batch:280-56085					
LCS 280-56052/2-A	Lab Control Sample	T	Solid	9071B	280-56052
MB 280-56052/1-A	Method Blank	T	Solid	9071B	280-56052
280-13112-1	J1DX70	T	Solid	9071B	280-56052
280-13112-2	J1DX71	T	Solid	9071B	280-56052
280-13112-2DU	Duplicate	T	Solid	9071B	280-56052
280-13112-2MS	Matrix Spike	T	Solid	9071B	280-56052
280-13112-3	J1DX72	T	Solid	9071B	280-56052
280-13112-4	J1DX73	T	Solid	9071B	280-56052
280-13112-5	J1DX74	T	Solid	9071B	280-56052
280-13112-6	J1DX75	T	Solid	9071B	280-56052
Prep Batch: 280-56248					
LCS 280-56248/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-56248/1-A	Method Blank	S	Solid	DI Leach	
280-13112-1	J1DX70	S	Solid	DI Leach	
280-13112-2	J1DX71	S	Solid	DI Leach	
280-13112-2DU	Duplicate	S	Solid	DI Leach	
280-13112-2MS	Matrix Spike	S	Solid	DI Leach	
280-13112-3	J1DX72	S	Solid	DI Leach	
280-13112-4	J1DX73	S	Solid	DI Leach	
280-13112-5	J1DX74	S	Solid	DI Leach	
280-13112-6	J1DX75	S	Solid	DI Leach	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-56311					
LCS 280-56000/2-A	Lab Control Sample	S	Solid	9056M	
MB 280-56000/1-A	Method Blank	S	Solid	9056M	
280-13112-1	J1DX70	S	Solid	9056M	
280-13112-2	J1DX71	S	Solid	9056M	
280-13112-2DU	Duplicate	S	Solid	9056M	
280-13112-2MS	Matrix Spike	S	Solid	9056M	
280-13112-3	J1DX72	S	Solid	9056M	
280-13112-4	J1DX73	S	Solid	9056M	
280-13112-5	J1DX74	S	Solid	9056M	
280-13112-6	J1DX75	S	Solid	9056M	
Analysis Batch:280-56312					
LCS 280-56000/2-A	Lab Control Sample	S	Solid	9056M	
MB 280-56000/1-A	Method Blank	S	Solid	9056M	
280-13112-1	J1DX70	S	Solid	9056M	
280-13112-2	J1DX71	S	Solid	9056M	
280-13112-2DU	Duplicate	S	Solid	9056M	
280-13112-2MS	Matrix Spike	S	Solid	9056M	
280-13112-3	J1DX72	S	Solid	9056M	
280-13112-4	J1DX73	S	Solid	9056M	
280-13112-5	J1DX74	S	Solid	9056M	
280-13112-6	J1DX75	S	Solid	9056M	
Analysis Batch:280-56590					
LCS 280-56248/2-A	Lab Control Sample	S	Solid	353.2	
MB 280-56248/1-A	Method Blank	S	Solid	353.2	
280-13112-1	J1DX70	S	Solid	353.2	
280-13112-2	J1DX71	S	Solid	353.2	
280-13112-2DU	Duplicate	S	Solid	353.2	
280-13112-2MS	Matrix Spike	S	Solid	353.2	
280-13112-3	J1DX72	S	Solid	353.2	
280-13112-4	J1DX73	S	Solid	353.2	
280-13112-5	J1DX74	S	Solid	353.2	
280-13112-6	J1DX75	S	Solid	353.2	

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-55931					
LCS 280-55931/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-55931/1-A	Method Blank	T	Solid	3550C	
280-13112-1	J1DX70	T	Solid	3550C	
280-13112-2	J1DX71	T	Solid	3550C	
280-13112-2MS	Matrix Spike	T	Solid	3550C	
280-13112-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13112-3	J1DX72	T	Solid	3550C	
280-13112-4	J1DX73	T	Solid	3550C	
280-13112-5	J1DX74	T	Solid	3550C	
280-13112-6	J1DX75	T	Solid	3550C	
Analysis Batch:280-56239					
LCS 280-55931/2-A	Lab Control Sample	T	Solid	8310	280-55931
MB 280-55931/1-A	Method Blank	T	Solid	8310	280-55931
280-13112-1	J1DX70	T	Solid	8310	280-55931
280-13112-2	J1DX71	T	Solid	8310	280-55931
280-13112-2MS	Matrix Spike	T	Solid	8310	280-55931
280-13112-2MSD	Matrix Spike Duplicate	T	Solid	8310	280-55931
280-13112-3	J1DX72	T	Solid	8310	280-55931
280-13112-4	J1DX73	T	Solid	8310	280-55931
280-13112-6	J1DX75	T	Solid	8310	280-55931
Analysis Batch:280-56672					
280-13112-5	J1DX74	T	Solid	8310	280-55931

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-56222

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-56222/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 0859
Date Prepared: 03/08/2011 0600

Analysis Batch: 280-56462
Prep Batch: 280-56222
Units: ug/Kg

Instrument ID: MSV_J
Lab File ID: J5286.D
Initial Weight/Volume: 5.16 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Acetone	5.2	U	5.2	19
Benzene	0.46	U	0.46	4.8
Bromodichloromethane	0.21	U	0.21	4.8
Bromoform	0.22	U	0.22	4.8
Bromomethane	0.48	U	0.48	9.7
2-Butanone (MEK)	1.8	U	1.8	9.7
Carbon disulfide	0.41	U	0.41	4.8
Carbon tetrachloride	0.61	U	0.61	4.8
Chlorobenzene	0.52	U	0.52	4.8
Dibromochloromethane	0.55	U	0.55	4.8
Chloroethane	0.86	U	0.86	9.7
Chloroform	0.28	U	0.28	4.8
Chloromethane	0.75	U	0.75	9.7
1,3-Dichlorobenzene	0.47	U	0.47	4.8
1,1-Dichloroethane	0.20	U	0.20	4.8
1,2-Dichloroethane	0.68	U	0.68	4.8
trans-1,2-Dichloroethene	0.38	U	0.38	2.4
1,1-Dichloroethene	0.57	U	0.57	4.8
1,2-Dichloroethene, Total	0.38	U	0.38	4.8
1,2-Dichloropropane	0.53	U	0.53	4.8
cis-1,3-Dichloropropene	1.2	U	1.2	4.8
trans-1,3-Dichloropropene	0.65	U	0.65	4.8
Ethylbenzene	0.65	U	0.65	4.8
2-Hexanone	4.7	U	4.7	19
Methylene Chloride	0.73	U	0.73	4.8
4-Methyl-2-pentanone (MIBK)	4.2	U	4.2	9.7
Styrene	0.61	U	0.61	4.8
1,1,2,2-Tetrachloroethane	0.59	U	0.59	4.8
Tetrachloroethene	0.57	U	0.57	4.8
Toluene	0.67	U	0.67	4.8
1,1,1-Trichloroethane	0.50	U	0.50	4.8
1,1,2-Trichloroethane	0.85	U	0.85	4.8
Trichloroethene	0.22	U	0.22	4.8
Vinyl chloride	1.3	U	1.3	4.8
Xylenes, Total	0.59	U	0.59	4.8

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86	58 - 140
Toluene-d8 (Surr)	87	80 - 126
4-Bromofluorobenzene (Surr)	90	76 - 127
Dibromofluoromethane (Surr)	90	75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank TICs- Batch: 280-56222

Cas Number	Analyte	RT	Est. Result	Qual
91-20-3	Naphthalene	15.65	0.631	J N J
	Tentatively Identified Compound		None	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-56222

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-56222/2-A	Analysis Batch: 280-56462	Instrument ID: MSV_J
Client Matrix:	Solid	Prep Batch: 280-56222	Lab File ID: J5283.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	03/08/2011 0750		Final Weight/Volume: 5 mL
Date Prepared:	03/08/2011 0600		

LCSD Lab Sample ID:	LCSD 280-56222/3-A	Analysis Batch: 280-56462	Instrument ID: MSV_J
Client Matrix:	Solid	Prep Batch: 280-56222	Lab File ID: J5284.D
Dilution:	1.0	Units: ug/Kg	Initial Weight/Volume: 5 g
Date Analyzed:	03/08/2011 0813		Final Weight/Volume: 5 mL
Date Prepared:	03/08/2011 0600		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	106	111	76 - 120	4	20		
Bromodichloromethane	101	106	74 - 125	5	20		
Carbon tetrachloride	102	110	69 - 147	7	20		
Chlorobenzene	111	113	74 - 120	2	20		
Chloroform	103	108	77 - 125	5	20		
1,3-Dichlorobenzene	122	121	74 - 120	1	20		
1,1-Dichloroethane	100	104	74 - 120	5	20		
trans-1,2-Dichloroethene	109	116	80 - 127	6	20		
1,1-Dichloroethene	112	120	77 - 143	7	20		
1,2-Dichloropropane	100	104	74 - 120	4	20		
Ethylbenzene	111	114	78 - 120	3	20		
Methylene Chloride	103	108	76 - 137	5	21		
Tetrachloroethene	113	115	71 - 120	1	20		
Toluene	108	113	72 - 120	4	20		
1,1,1-Trichloroethane	106	113	67 - 143	6	20		
Trichloroethene	107	111	78 - 120	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	100	58 - 140
Toluene-d8 (Surr)	102	101	80 - 126
4-Bromofluorobenzene (Surr)	97	98	76 - 127
Dibromofluoromethane (Surr)	97	100	75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-56222

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-13112-1	Analysis Batch: 280-56462	Instrument ID: MSV_J
Client Matrix:	Solid	Prep Batch: 280-56222	Lab File ID: J5294.D
Dilution:	1.0		Initial Weight/Volume: 5.254 g
Date Analyzed:	03/08/2011 1211		Final Weight/Volume: 5 mL
Date Prepared:	03/08/2011 0600		

MSD Lab Sample ID:	280-13112-1	Analysis Batch: 280-56462	Instrument ID: MSV_J
Client Matrix:	Solid	Prep Batch: 280-56222	Lab File ID: J5295.D
Dilution:	1.0		Initial Weight/Volume: 5.829 g
Date Analyzed:	03/08/2011 1233		Final Weight/Volume: 5 mL
Date Prepared:	03/08/2011 0600		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	102	93	76 - 120	19	20		
Bromodichloromethane	99	95	74 - 125	15	20		
Carbon tetrachloride	96	86	69 - 147	22	20		*
Chlorobenzene	99	95	74 - 120	15	20		
Chloroform	98	92	77 - 125	16	20		
1,3-Dichlorobenzene	103	98	74 - 120	15	20		
1,1-Dichloroethane	95	88	74 - 120	18	20		
trans-1,2-Dichloroethene	100	93	80 - 127	18	20		
1,1-Dichloroethene	107	97	77 - 143	20	20		
1,2-Dichloropropane	98	92	74 - 120	17	20		
Ethylbenzene	101	95	78 - 120	17	20		
Methylene Chloride	97	93	76 - 137	15	21		
Tetrachloroethene	100	93	71 - 120	17	20		
Toluene	102	94	72 - 120	19	20		
1,1,1-Trichloroethane	100	91	67 - 143	20	20		
Trichloroethene	128	127	78 - 120	11	20	T	T

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	98	58 - 140
Toluene-d8 (Surr)	101	97	80 - 126
4-Bromofluorobenzene (Surr)	100	95	76 - 127
Dibromofluoromethane (Surr)	98	95	75 - 121

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-56122

Method: NWTPH-Gx
Preparation: 5030B

Lab Sample ID: MB 280-56122/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 1528
Date Prepared: 03/07/2011 1230

Analysis Batch: 280-56422
Prep Batch: 280-56122
Units: ug/Kg

Instrument ID: GCV_L
Lab File ID: 112F0501.D
Initial Weight/Volume: 10.45 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline	310	U	310	1100

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	94	77 - 123

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-56122

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID: LCS 280-56122/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 1412
Date Prepared: 03/07/2011 1230

Analysis Batch: 280-56422
Prep Batch: 280-56122
Units: ug/Kg

Instrument ID: GCV_L
Lab File ID: 110F0301.D
Initial Weight/Volume: 10.37 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-56122/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 1450
Date Prepared: 03/07/2011 1230

Analysis Batch: 280-56422
Prep Batch: 280-56122
Units: ug/Kg

Instrument ID: GCV_L
Lab File ID: 111F0401.D
Initial Weight/Volume: 10.37 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline	130	119	85 - 153	9	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	107	99	77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-56122

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-13112-1	Analysis Batch: 280-56422	Instrument ID: GCV_L
Client Matrix:	Solid	Prep Batch: 280-56122	Lab File ID: 115F0801.D
Dilution:	1.0		Initial Weight/Volume: 10.28 g
Date Analyzed:	03/08/2011 1814		Final Weight/Volume: 500 mL
Date Prepared:	03/07/2011 1230		Injection Volume: 5 mL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13112-1	Analysis Batch: 280-56422	Instrument ID: GCV_L
Client Matrix:	Solid	Prep Batch: 280-56122	Lab File ID: 118F1101.D
Dilution:	1.0		Initial Weight/Volume: 10.28 g
Date Analyzed:	03/08/2011 2008		Final Weight/Volume: 500 mL
Date Prepared:	03/07/2011 1230		Injection Volume: 5 mL
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Gasoline	86	106	85 - 153	19	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	99	98	77 - 123

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-55975

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-55975/1-A	Analysis Batch:	280-56598	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-55975	Lab File ID:	043F4301.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.4 g
Date Analyzed:	03/09/2011 0241			Final Weight/Volume:	5000 uL
Date Prepared:	03/06/2011 1505			Injection Volume:	1 uL
				Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.7	U	2.7	9.9
Aroclor 1221	7.9	U	7.9	16
Aroclor 1232	2.0	U	2.0	9.9
Aroclor 1242	4.6	U	4.6	9.9
Aroclor 1248	4.6	U	4.6	9.9
Aroclor 1254	2.6	U	2.6	9.9
Aroclor 1260	2.6	U	2.6	9.9

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

Lab Control Sample - Batch: 280-55975

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-55975/2-A	Analysis Batch:	280-56598	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-55975	Lab File ID:	044F4401.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	31.8 g
Date Analyzed:	03/09/2011 0303			Final Weight/Volume:	5000 uL
Date Prepared:	03/06/2011 1505			Injection Volume:	1 uL
				Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	31.4	27.0	86	54 - 132	
Aroclor 1260	31.4	28.5	91	62 - 129	

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

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-55975

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-13112-2	Analysis Batch: 280-56598	Instrument ID: GCS_P3
Client Matrix:	Solid	Prep Batch: 280-55975	Lab File ID: 047F4701.D
Dilution:	1.0		Initial Weight/Volume: 32.7 g
Date Analyzed:	03/09/2011 0407		Final Weight/Volume: 5000 uL
Date Prepared:	03/06/2011 1505		Injection Volume: 1 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13112-2	Analysis Batch: 280-56598	Instrument ID: GCS_P3
Client Matrix:	Solid	Prep Batch: 280-55975	Lab File ID: 048F4801.D
Dilution:	1.0		Initial Weight/Volume: 30.3 g
Date Analyzed:	03/09/2011 0428		Final Weight/Volume: 5000 uL
Date Prepared:	03/06/2011 1505		Injection Volume: 1 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	80	85	54 - 132	14	26		
Aroclor 1260	82	80	62 - 129	4	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	70	72	59 - 130
Tetrachloro-m-xylene	74	73	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-55933

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-55933/1-A	Analysis Batch:	280-56441	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-55933	Lab File ID:	005F0501.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	30.9 g
Date Analyzed:	03/08/2011 1607			Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135			Injection Volume:	1 uL

Analyte	Result	Qual	MDL	RL
C10-C36	970	U	970	3900
C10-C28	660	U	660	3900

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	89	49 - 115

Lab Control Sample - Batch: 280-55933

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-55933/2-A	Analysis Batch:	280-56441	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-55933	Lab File ID:	006F0601.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	32.2 g
Date Analyzed:	03/08/2011 1642			Final Weight/Volume:	1000 uL
Date Prepared:	03/05/2011 0135			Injection Volume:	1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	62100	67900	109	57 - 115	
C10-C28	62100	67600	109	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	82	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-55933

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-13112-2	Analysis Batch: 280-56441	Instrument ID: GCS_U2
Client Matrix:	Solid	Prep Batch: 280-55933	Lab File ID: 009F0901.D
Dilution:	1.0		Initial Weight/Volume: 30.6 g
Date Analyzed:	03/08/2011 1825		Final Weight/Volume: 1000 uL
Date Prepared:	03/05/2011 0135		Injection Volume: 1 uL

MSD Lab Sample ID:	280-13112-2	Analysis Batch: 280-56441	Instrument ID: GCS_U2
Client Matrix:	Solid	Prep Batch: 280-55933	Lab File ID: 010F1001.D
Dilution:	1.0		Initial Weight/Volume: 32.7 g
Date Analyzed:	03/08/2011 1859		Final Weight/Volume: 1000 uL
Date Prepared:	03/05/2011 0135		Injection Volume: 1 uL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	79	84	57 - 115	1	23		
C10-C28	85	87	56 - 115	4	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	57	56	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-55931

Method: 8310
Preparation: 3550C

Lab Sample ID: MB 280-55931/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/09/2011 1229
Date Prepared: 03/05/2011 0115

Analysis Batch: 280-56239
Prep Batch: 280-55931
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0308042.D
Initial Weight/Volume: 30.3 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.9	U	9.9	99
Acenaphthylene	8.9	U	8.9	99
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.2	U	3.2	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.2	U	4.2	15
Benzo[g,h,i]perylene	7.1	U	7.1	30
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.8	U	4.8	40
Dibenzo(a,h)anthracene	11	U	11	30
Fluoranthene	13	U	13	40
Fluorene	5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene	12	U	12	30
Naphthalene	12	U	12	99
Phenanthrene	12	U	12	40
Pyrene	12	U	12	40

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	96	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Lab Control Sample - Batch: 280-55931

Method: 8310
Preparation: 3550C

Lab Sample ID: LCS 280-55931/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/09/2011 1300
Date Prepared: 03/05/2011 0115

Analysis Batch: 280-56239
Prep Batch: 280-55931
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0308043.D
Initial Weight/Volume: 32.4 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1850	1730	93	72 - 115	
Acenaphthylene	1850	1650	89	60 - 115	
Anthracene	1850	1630	88	61 - 115	
Benzo[a]anthracene	1850	1880	101	76 - 115	
Benzo[a]pyrene	1850	1570	85	69 - 115	
Benzo[b]fluoranthene	1850	1810	98	81 - 115	
Benzo[g,h,i]perylene	1850	1780	96	71 - 115	
Benzo[k]fluoranthene	1850	1750	95	85 - 115	
Chrysene	1850	1730	94	70 - 115	
Dibenzo(a,h)anthracene	1850	1790	97	79 - 115	
Fluoranthene	1850	1750	95	67 - 115	
Fluorene	1850	1690	91	72 - 115	
Indeno[1,2,3-cd]pyrene	1850	1910	103	76 - 115	
Naphthalene	1850	1760	95	77 - 115	
Phenanthrene	1850	1730	93	79 - 115	
Pyrene	1850	1760	95	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	96	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-55931

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-13112-2	Analysis Batch: 280-56239	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-55931	Lab File ID: G0308046.D
Dilution:	1.0		Initial Weight/Volume: 30.7 g
Date Analyzed:	03/09/2011 1431		Final Weight/Volume: 4000 uL
Date Prepared:	03/05/2011 0115		Injection Volume: 20 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13112-2	Analysis Batch: 280-56239	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-55931	Lab File ID: G0308047.D
Dilution:	1.0		Initial Weight/Volume: 30.3 g
Date Analyzed:	03/09/2011 1502		Final Weight/Volume: 4000 uL
Date Prepared:	03/05/2011 0115		Injection Volume: 20 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	89	13	72 - 115	150	20		N *
Acenaphthylene	86	12	60 - 115	150	21		N *
Anthracene	84	12	61 - 115	149	20		N *
Benzo[a]anthracene	99	14	76 - 115	148	20		N *
Benzo[a]pyrene	82	11	69 - 115	152	20		N *
Benzo[b]fluoranthene	94	15	81 - 115	143	20		N *
Benzo[g,h,i]perylene	92	13	71 - 115	150	20		N *
Benzo[k]fluoranthene	92	13	85 - 115	151	20		N *
Chrysene	91	13	70 - 115	149	20		N *
Dibenzo(a,h)anthracene	93	13	79 - 115	150	20		N *
Fluoranthene	92	12	67 - 115	151	20		N *
Fluorene	88	12	72 - 115	150	20		N *
Indeno[1,2,3-cd]pyrene	99	14	76 - 115	150	20		N *
Naphthalene	93	13	77 - 115	151	20		N *
Phenanthrene	92	13	79 - 115	151	20		N *
Pyrene	94	13	77 - 115	152	20		N *

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
Terphenyl-d14 (SUR)	95	16	*	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 280-55892/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 1547
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56373
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030811.asc
Initial Weight/Volume: 1.0 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	0.0880	B	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	40.06	B	14.1	50.0
Chromium	0.0700	B	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	5.56	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
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Method Blank - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 280-55892/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/09/2011 1251
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56623
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030911.asc
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Selenium	0.86	U	0.86	1.0

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Lab Control Sample - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-55892/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 1549
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56373
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030811.asc
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	191.9	96	82 - 116	
Antimony	50.0	51.51	103	82 - 110	
Arsenic	100	100.6	101	85 - 110	
Barium	200	207.0	104	87 - 112	
Beryllium	5.00	5.07	101	84 - 114	
Boron	100	99.29	99	81 - 110	
Cadmium	10.0	10.52	105	87 - 110	
Calcium	5000	5051	101	82 - 114	
Chromium	20.0	20.42	102	84 - 114	
Cobalt	50.0	50.05	100	87 - 110	
Copper	25.0	26.02	104	88 - 110	
Iron	100	102.5	102	87 - 120	
Lead	50.0	49.83	100	86 - 110	
Magnesium	5000	4747	95	90 - 110	
Manganese	50.0	49.03	98	88 - 110	
Molybdenum	100	101.2	101	86 - 110	
Nickel	50.0	49.81	100	87 - 110	
Potassium	5000	5216	104	89 - 110	
Silicon	1000	168.8	17	10 - 70	
Silver	5.00	5.09	102	87 - 114	
Sodium	5000	5298	106	90 - 112	
Vanadium	50.0	49.94	100	88 - 110	
Zinc	50.0	46.31	93	76 - 114	

Lab Control Sample - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-55892/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/09/2011 1254
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56623
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030911.asc
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Selenium	200	211.3	106	83 - 110	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13112-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 1556
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56373
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030811.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	9160		198	12180	1529	50 - 200	4
Antimony	0.40	U	49.4	17.76	36	20 - 200	
Arsenic	7.3		98.9	98.03	92	76 - 111	
Barium	110		198	326.0	109	52 - 159	
Beryllium	0.035	U	4.94	4.63	94	72 - 105	
Boron	5.4		98.9	97.54	93	75 - 107	
Cadmium	0.78		9.89	10.52	99	40 - 130	
Calcium	42400		4940	53030	214	43 - 165	4
Chromium	10.0		19.8	32.11	112	70 - 200	
Cobalt	6.4		49.4	51.41	91	72 - 106	
Copper	19.1		24.7	45.86	108	37 - 187	
Iron	17600		98.9	19570	1976	70 - 200	4
Lead	5.3		49.4	50.79	92	70 - 200	
Magnesium	6200		4940	11580	109	64 - 145	
Manganese	239		49.4	331.2	186	40 - 200	4
Molybdenum	0.52	B	98.9	89.43	90	75 - 103	
Nickel	10.4		49.4	56.10	92	61 - 126	
Potassium	1540		4940	6765	106	56 - 172	
Silicon	109		989	328.2	22	20 - 200	
Silver	0.17	U	4.94	4.84	98	75 - 141	
Sodium	973		4940	6413	110	78 - 111	
Vanadium	44.6		49.4	101.9	116	50 - 169	
Zinc	52.0		49.4	98.95	95	70 - 200	

Matrix Spike - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13112-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/09/2011 1301
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56623
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030911.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Selenium	1.4	198	191.3	96	76 - 104	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Duplicate - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13112-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/08/2011 1559
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56373
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030811.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	9160		10320	12	40	
Antimony	0.40	U	0.40	NC	40	U
Arsenic	7.3		7.09	3	30	
Barium	110		110.3	0.1	30	
Beryllium	0.035	U	0.103	NC	30	B
Boron	5.4		5.09	5	30	
Cadmium	0.78		0.832	6	30	
Calcium	42400		41990	1	30	
Chromium	10.0		21.04	71	40	M
Cobalt	6.4		6.77	6	30	
Copper	19.1		19.88	4	30	
Iron	17600		18060	2	40	
Lead	5.3		5.48	3	40	
Magnesium	6200		7209	15	30	
Manganese	239		265.8	10	40	
Molybdenum	0.52	B	0.495	5	30	B
Nickel	10.4		14.48	33	30	M
Potassium	1540		1499	3	40	
Silicon	109		138.2	23	40	
Silver	0.17	U	0.17	NC	30	U
Sodium	973		976.2	0.3	30	
Vanadium	44.6		47.02	5	30	
Zinc	52.0		60.73	15	40	

Duplicate - Batch: 280-55892

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13112-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/09/2011 1303
Date Prepared: 03/07/2011 1430

Analysis Batch: 280-56623
Prep Batch: 280-55892
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A1030911.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Selenium	1.4	0.91	NC	30	U

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-55991

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 280-55991/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1649
Date Prepared: 03/07/2011 0820

Analysis Batch: 280-56252
Prep Batch: 280-55991
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110307AE.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.00633	B	0.0055	0.017

Lab Control Sample - Batch: 280-55991

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 280-55991/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1651
Date Prepared: 03/07/2011 0820

Analysis Batch: 280-56252
Prep Batch: 280-55991
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110307AE.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.380	91	87 - 111	

Matrix Spike - Batch: 280-55991

Method: 7471A
Preparation: 7471A

Lab Sample ID: 280-13112-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1710
Date Prepared: 03/07/2011 0820

Analysis Batch: 280-56252
Prep Batch: 280-55991
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110307AE.txt
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.15	0.424	0.536	92	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Duplicate - Batch: 280-55991

Method: 7471A
Preparation: 7471A

Lab Sample ID: 280-13112-4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1708
Date Prepared: 03/07/2011 0820

Analysis Batch: 280-56252
Prep Batch: 280-55991
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110307AE.txt
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.15	0.197	29	20	M

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-56590

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-56248/1-A	Analysis Batch:	280-56590	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0309NXN.RST
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/09/2011 1237			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/08/2011 1053	Leachate Batch:	280-56248		

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N-Soluble	0.33	U	0.33	0.70

Method Reporting Limit Check - Batch: 280-56590

Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-56590/17	Analysis Batch:	280-56590	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0309NXN.RST
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	100 mL
Date Analyzed:	03/09/2011 1146			Final Weight/Volume:	100 mL
Date Prepared:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.100	0.0790	79	50 - 150	B

Lab Control Sample - Batch: 280-56590

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 280-56248/2-A	Analysis Batch:	280-56590	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0309NXN.RST
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/09/2011 1238			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/08/2011 1053	Leachate Batch:	280-56248		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	48.5	51.79	107	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike - Batch: 280-56590

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-13112-2	Analysis Batch:	280-56590	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0309NXN.RST
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/09/2011 1244			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/08/2011 1053	Leachate Batch:	280-56248		

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	6.7	47.0	57.86	109	90 - 110	

Duplicate - Batch: 280-56590

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-13112-2	Analysis Batch:	280-56590	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0309NXN.RST
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/09/2011 1243			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/08/2011 1053	Leachate Batch:	280-56248		

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	6.7	5.78	15	10	M

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-55958

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-55958/4	Analysis Batch:	280-55958	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:	03/05/2011 1146			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

LCSD Lab Sample ID:	LCSD 280-55958/5	Analysis Batch:	280-55958	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:	03/05/2011 1146			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	100	100	97 - 103	0	5		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-55958

Method: 9045C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-55958/12	Analysis Batch:	280-55958	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:	03/05/2011 1249			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				

LCSD Lab Sample ID:	LCSD 280-55958/13	Analysis Batch:	280-55958	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:	03/05/2011 1250			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	100	100	97 - 103	0	5		

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Duplicate - Batch: 280-55958

Method: 9045C
Preparation: N/A

Lab Sample ID:	280-13112-4	Analysis Batch:	280-55958	Instrument ID:	WC_pH Probe
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Units:	SU	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/05/2011 1201			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/05/2011 0852	Leachate Batch:	280-55945		

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	9.68	9.670	0.1	5	

Duplicate - Batch: 280-55958

Method: 9045C
Preparation: N/A

Lab Sample ID:	280-13112-1	Analysis Batch:	280-55958	Instrument ID:	WC_pH Probe
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Units:	SU	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/05/2011 1252			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/05/2011 0852	Leachate Batch:	280-55945		

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	9.95	9.940	0.1	5	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-56311

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-56000/1-A	Analysis Batch:	280-56311	Instrument ID:	WC_IC6
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	133.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/07/2011 1540			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/07/2011 0833	Leachate Batch:	280-56000		

Analyte	Result	Qual	MDL	RL
Chloride-Soluble	2.0	U	2.0	5.0
Bromide-Soluble	0.39	U	0.39	2.0
Sulfate-Soluble	1.7	U	1.7	5.0
Fluoride-Soluble	0.82	U	0.82	5.0

Method Reporting Limit Check - Batch: 280-56311

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-56311/3	Analysis Batch:	280-56311	Instrument ID:	WC_IC6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/07/2011 0937			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	1.00	1.01	101	50 - 150	B
Bromide-Soluble	0.200	0.204	102	50 - 150	B
Sulfate-Soluble	1.00	1.00	100	50 - 150	B
Fluoride-Soluble	0.200	0.218	109	50 - 150	B

Lab Control Sample - Batch: 280-56311

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-56000/2-A	Analysis Batch:	280-56311	Instrument ID:	WC_IC6
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	132.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/07/2011 1523			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/07/2011 0833	Leachate Batch:	280-56000		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	250	246.3	99	90 - 110	
Bromide-Soluble	50.0	48.81	98	90 - 110	
Sulfate-Soluble	250	248.9	100	90 - 110	
Fluoride-Soluble	50.0	49.71	99	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike - Batch: 280-56311

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13112-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1724
Date Prepared: N/A
Date Leached: 03/07/2011 0833

Analysis Batch: 280-56311
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-56000

Instrument ID: WC_IC6
Lab File ID: 139.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	9.5		294	314.2	104	80 - 120	
Bromide-Soluble	0.46	U	58.7	60.41	103	80 - 120	
Sulfate-Soluble	234		294	535.0	103	80 - 120	
Fluoride-Soluble	3.5	B	58.7	61.02	98	80 - 120	

Duplicate - Batch: 280-56311

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13112-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1632
Date Prepared: N/A
Date Leached: 03/07/2011 0833

Analysis Batch: 280-56311
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-56000

Instrument ID: WC_IC6
Lab File ID: 136.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride-Soluble	9.5		10.21	8	15	
Bromide-Soluble	0.46	U	0.45	NC	15	U
Sulfate-Soluble	234		244.7	4	15	
Fluoride-Soluble	3.5	B	3.72	5	15	B

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-56312

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-56000/1-A	Analysis Batch:	280-56312	Instrument ID:	WC_IC6
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	133.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/07/2011 1540			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/07/2011 0833	Leachate Batch:	280-56000		

Analyte	Result	Qual	MDL	RL
Nitrate as N-Soluble	0.31	U	0.31	2.5
Nitrite as N-Soluble	0.34	U	0.34	2.5
Orthophosphate as P-Soluble	1.2	U	1.2	5.0

Method Reporting Limit Check - Batch: 280-56312

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-56312/3	Analysis Batch:	280-56312	Instrument ID:	WC_IC6
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/07/2011 0937			Final Weight/Volume:	5 mL
Date Prepared:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	0.200	0.210	105	50 - 150	B
Nitrite as N-Soluble	0.200	0.198	99	50 - 150	B
Orthophosphate as P-Soluble	0.200	0.209	104	50 - 150	B

Lab Control Sample - Batch: 280-56312

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-56000/2-A	Analysis Batch:	280-56312	Instrument ID:	WC_IC6
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	132.TXT
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	1.0 mL
Date Analyzed:	03/07/2011 1523			Final Weight/Volume:	1.0 mL
Date Prepared:	N/A				
Date Leached:	03/07/2011 0833	Leachate Batch:	280-56000		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	50.0	49.19	98	90 - 110	
Nitrite as N-Soluble	50.0	49.28	99	90 - 110	
Orthophosphate as P-Soluble	50.0	45.96	92	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Matrix Spike - Batch: 280-56312

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13112-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1724
Date Prepared: N/A
Date Leached: 03/07/2011 0833

Analysis Batch: 280-56312
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-56000

Instrument ID: WC_IC6
Lab File ID: 139.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	4.7		58.7	65.14	103	80 - 120	
Nitrite as N-Soluble	0.40	U	58.7	59.98	102	80 - 120	
Orthophosphate as P-Soluble	1.5	U	58.7	3.65	6	80 - 120	B N

Duplicate - Batch: 280-56312

Method: 9056M
Preparation: N/A

Lab Sample ID: 280-13112-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1632
Date Prepared: N/A
Date Leached: 03/07/2011 0833

Analysis Batch: 280-56312
Prep Batch: N/A
Units: mg/Kg

Leachate Batch: 280-56000

Instrument ID: WC_IC6
Lab File ID: 136.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	4.7		4.83	2	15	
Nitrite as N-Soluble	0.40	U	0.39	NC	15	U
Orthophosphate as P-Soluble	1.5	U	1.4	NC	15	U

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Method Blank - Batch: 280-56052

Method: 9071B
Preparation: 3540C

Lab Sample ID: MB 280-56052/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1113
Date Prepared: 03/07/2011 1019

Analysis Batch: 280-56085
Prep Batch: 280-56052
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10.00 g
Final Weight/Volume: 10 g

Analyte	Result	Qual	MDL	RL
Oil & Grease (HEM)	110.0	B	84.8	500

Lab Control Sample - Batch: 280-56052

Method: 9071B
Preparation: 3540C

Lab Sample ID: LCS 280-56052/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1113
Date Prepared: 03/07/2011 1019

Analysis Batch: 280-56085
Prep Batch: 280-56052
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10.00 g
Final Weight/Volume: 10 g

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Oil & Grease (HEM)	2000	2010	100	56 - 142	

Matrix Spike - Batch: 280-56052

Method: 9071B
Preparation: 3540C

Lab Sample ID: 280-13112-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1113
Date Prepared: 03/07/2011 1019

Analysis Batch: 280-56085
Prep Batch: 280-56052
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10.20 g
Final Weight/Volume: 10 g

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Oil & Grease (HEM)	149	B	2350	1515	58	56 - 142	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Duplicate - Batch: 280-56052

Method: 9071B
Preparation: 3540C

Lab Sample ID: 280-13112-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/07/2011 1113
Date Prepared: 03/07/2011 1019

Analysis Batch: 280-56085
Prep Batch: 280-56052
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10.49 g
Final Weight/Volume: 10 g

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Oil & Grease (HEM)	149	B	137.0	8	32	B C

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13112-1
Sdg Number: JP0094

Duplicate - Batch: 280-56050

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13112-1	Analysis Batch:	280-56050	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Units:	%	Initial Weight/Volume:	
Date Analyzed:	03/07/2011 1012			Final Weight/Volume:	
Date Prepared:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	8.9	9.3	4	20	

2.6, 2.A FH 3/4/11

JEB 3-3-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-061	Page 1 of ~~11~~ 2

Collector: M. Blankingship (QW 3-3-11)	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 9B (QW 3-3-11); Data Turnaround: ~~21~~ 7 Days (QW 3-3-11)
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 126-H-2 Verification Sampleing	SAF No.: RC-107	
Ice Chest No.: WCH-08-070	Field Logbook No.: EL 1627-04; COA: 0126H22600	Method of Shipment: AF 3-3-11; ~~Government Vehicle~~/FedEx	
Shipped To: QW 3-3-11 ~~EBERLINE SERVICES / LIONVILLE~~ Test America Denver	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7968 2976 5047	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	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	aGs*	G	aG	aG	aG	G/P	G/P
No. of Container(s)	1	0	1	1	0	1	0	0	1	0
Volume	60mL	60mL	120mL	~~40mL~~ 60 (QW 3-3-11)	120mL	40mL	120mL	120mL	500mL	120mL
SAMPLE ANALYSIS	See item (1) in Special Instructions. **	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D + *	TPH-Gasoline Range - WTPH-G	Oil & Grease - 1664	VOA - 8260A (TCL)	PCBs - 8082	PAHs - 8310	See item (3) in Special Instructions.	Isotopic Plutonium

Sample No.	Matrix *	Sample Date	Sample Time										
J1DX70	QW 3-3-11 ~~SOIL~~ Other	3-3-11	0830	X	X	X	X	X	X	X	X		
J1DX71	QW 3-3-11 ~~SOIL~~ Other	3-3-11	0920	X	X	X	X	X	X	X	X		
J1DX72	QW 3-3-11 ~~SOIL~~ Other	3-3-11	0955	X	X	X	X	X	X	X	X		
J1DX73	QW 3-3-11 ~~SOIL~~ Other	3-3-11	1005	X	X	X	X	X	X	X	X		
J1DX74	QW 3-3-11 ~~SOIL~~ Other	3-3-11	1050	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: MAT Blankingship	1205 3-3-11	Received By/Stored In: JV Fullmer, JV Fullmer	1205 3-3-11
Relinquished By/Removed From: JV Fullmer, JV Fullmer	1320 3-3-11	Received By/Stored In: J.E. Bahl	1320 3-3-11
Relinquished By/Removed From: J.E. Bahl	1400 3-3-11	Received By/Stored In: FED EX	
Relinquished By/Removed From		Received By/Stored In: [signature]	3/4/11 0930
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

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 - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, 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}

* J1DX71: 500 mL container JEB 3-3-11

** J1DX71: 120 mL container

REVIEWED BY AJ DATE 3-3-11

JP0094

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

JEB 3-3-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-061	Page 2 of ~~1~~ 2

Collector M. Blankingship Ship 3-3-11	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 9B 3-3-11	Data Turnaround ~~21~~ 7 Days 3-3-11		
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 126-H-2 Verification Sampleing		SAF No. RC-107
Ice Chest No. WCH-08-070	Field Logbook No. EL 1627-04	COA 0126H22600	Method of Shipment AF 3-3-11 ~~Government Vehicle~~/FedEx
Shipped To 3-3-11 ~~EBERLINE SERVICES / LIONVILLE~~ Test America Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7968 2976 5047

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 Deg C

Preservation	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	aGs*	G	aG	aG	aG	G/P	G/P
No. of Container(s)	1	0	1	1	0	1	0	0	1	0
Volume	60mL	60mL	120mL	~~40mL~~ 60 3-3-11	120mL	40mL	120mL	120mL	500mL	120mL
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	TPH-Gasoline Range - WTPH-G	Oil & Grease - 1664	VOA - 8260A (TCL)	PCBs - 8082	PAHs - 8310	See item (3) in Special Instructions.	Isotopic Plutonium

Sample No.	Matrix *	Sample Date	Sample Time										
J1DX75	~~SOIL~~ AQ 3-3-11	3-3-11	1120	X	X	X	X	X	X	X	X		
~~J1DX76~~	~~SOIL~~		912 3-3-11										
~~J1DX77~~	~~SOIL~~		912 3-3-11										
~~J1DX78~~	~~SOIL~~		912 3-3-11										
~~J1DX79~~	~~SOIL~~		912 3-3-11										

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: MATT BLANKINSHIP	3-3-11 1205	Received By/Stored In: JV Fullmer	3-3-11 1205
Relinquished By/Removed From: JV Fullmer	3-3-11 1320	Received By/Stored In: J.E. Beahl	3-3-11 1320
Relinquished By/Removed From: J.E. Beahl WCH	3-3-11 1400	Received By/Stored In: FED EX	
Relinquished By/Removed From		Received By/Stored In	3/4/11 0930
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

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 - 300.0 {Bromide, Chloride, Fluoride, Nitrate, Nitrite, 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 AJ
DATE 3-3-11

JP0094

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 Solid Color TK

Analytical Due:

Report Due: 3/11/11 (Rush 5d)

Sample Check-in List

Date/Time Received: 3/4/11 0930 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: JP0094 NA[ ] SAF #: RC-107 NA [ ]

Job Number: 13112 Chain of Custody # RC-107-061

Shipping Container ID: WCH-08-070 Air Bill # 7968 2976 5047

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ] 7968 2976 5106
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 2.6, 2.4 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 6
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: 3/4/11 0930

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is

Project Manager [signature] Date 3/7/11

LS-023, Rev. 7, 1/08

From: (509) 375-4840 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

J11101012220225

Ship Date: 03MAR11
ActWgt: 73.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

Ref #
Invoice #
PO #
Dept #

1 of 2

FRI - 04 MAR A1
PRIORITY OVERNIGHT

TRK# 7968 2976 5047
0201

MASTER

XH WHHA

80002
CO-US
DEN

500G2/8D09/7EFB

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

RICHLAND, WA 99354

FedEx. Express

J11101012220225

Ship Date: 03MAR11
ActWgt: 62.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 2

FRI - 04 MAR A1
PRIORITY OVERNIGHT

MPS# 7968 2976 5106
0263
Mstr# 7968 2976 5047 0201

XH WHHA

80002
CO-US
DEN

50DG2/8DD9/7EFB

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