0096334

SAF-RC-075
100-D/DR Burial Grounds & Remaining Sites – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

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

COMMENTS:

SDG JP0143 SAF RC-075

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 600-30 Area 2 Verification & Focused Samples

RECEIVED
APR 18 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
APR 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 34 *Pages*

Report No.: 46113

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.
JP0143	RC-075	J1FK51	J1C280484-1	MF9M31AA	9MF9M310	1089123
		J1FK52	J1C280484-2	MF9M51AA	9MF9M510	1089123
		J1FK53	J1C280484-3	MF9M71AA	9MF9M710	1089123
		J1FK54	J1C280484-4	MF9M81AA	9MF9M810	1089123
		J1FK55	J1C280484-5	MF9M91AA	9MF9M910	1089123
		J1FK56	J1C280484-6	MF9NA1AA	9MF9NA10	1089123
		J1FK57	J1C280484-7	MF9NC1AA	9MF9NC10	1089123
		J1FK58	J1C280484-8	MF9ND1AA	9MF9ND10	1089123
		J1FK59	J1C280484-9	MF9NE1AA	9MF9NE10	1089123
		J1FK60	J1C280484-10	MF9NF1AA	9MF9NF10	1089123
	RC-075	J1FK61	J1C280484-11	MF9NG1AA	9MF9NG10	1089123
		J1FK62	J1C280484-12	MF9NJ1AA	9MF9NJ10	1089123
		J1FK63	J1C280484-13	MF9NM1AA	9MF9NM10	1089123
		J1FK64	J1C280484-14	MF9Q11AA	9MF9Q110	1089123
		J1FK65	J1C280484-15	MF9Q21AA	9MF9Q210	1089123

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

TestAmerica Laboratories, Inc.

April 1, 2011

Attention: Joan Kessner

SAF Number	:	RC-075
Date SDG Closed	:	March 28, 2011
Number of Samples	:	Fifteen (15)
Sample Type	:	Soil
SDG Number	:	JP0143
Data Deliverable	:	7– Day / Summary

CASE NARRATIVE

I. Introduction

On March 28, 2011 fifteen soil samples were received at TestAmerica for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID number to correspond with the Washington Closure Hanford (WCH) specific ID:

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1FK51	MF9M3	SOIL	3/28/11
J1FK52	MF9M5	SOIL	3/28/11
J1FK53	MF9M7	SOIL	3/28/11
J1FK54	MF9M8	SOIL	3/28/11
J1FK55	MF9M9	SOIL	3/28/11
J1FK56	MF9NA	SOIL	3/28/11
J1FK57	MF9NC	SOIL	3/28/11
J1FK58	MF9ND	SOIL	3/28/11
J1FK59	MF9NE	SOIL	3/28/11
J1FK60	MF9NF	SOIL	3/28/11
J1FK61	MF9NG	SOIL	3/28/11
J1FK62	MF9NJ	SOIL	3/28/11
J1FK63	MF9NM	SOIL	3/28/11
J1FK64	MF9Q1	SOIL	3/28/11
J1FK65	MF9Q2	SOIL	3/28/11

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 analysis was:

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

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The duplicate was not within the acceptance criteria possibly due to the inhomogeneity of the sample. The LCS, batch blank, samples, sample duplicate (J1FK51) and the sample matrix spike (J1FK51) results are within contractual requirements.

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

Reviewed and approved:

Whitney Katari
for Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

TestAmerica TARL

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

Date: 01-Apr-11

Report No. : 46113

SDG No: JP0143

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1089123	7196_CR6								
	J1FK51								
	MF9M31AA	HEXCHROME	1.67E-01 +- 0.0E+00		mg/kg	N/A	1.50E-01	1.55E-01	
	MF9M31AE	HEXCHROME	2.50E-01 +- 0.0E+00		mg/kg	N/A	1.47E-01	3.50E-01	39.8
	J1FK52								
	MF9M51AA	HEXCHROME	1.64E-01 +- 0.0E+00		mg/kg	N/A	1.50E-01	1.55E-01	
	J1FK53								
	MF9M71AA	HEXCHROME	3.39E-01 +- 0.0E+00		mg/kg	N/A	1.48E-01	1.55E-01	
	J1FK54								
	MF9M81AA	HEXCHROME	1.49E-01 +- 0.0E+00	U	mg/kg	N/A	1.49E-01	1.55E-01	
	J1FK55								
	MF9M91AA	HEXCHROME	1.51E-01 +- 0.0E+00	U	mg/kg	N/A	1.51E-01	1.55E-01	
	J1FK56								
	MF9NA1AA	HEXCHROME	1.45E-01 +- 0.0E+00	U	mg/kg	N/A	1.45E-01	1.55E-01	
	J1FK57								
	MF9NC1AA	HEXCHROME	1.47E-01 +- 0.0E+00	U	mg/kg	N/A	1.47E-01	1.55E-01	
	J1FK58								
	MF9ND1AA	HEXCHROME	1.48E-01 +- 0.0E+00	U	mg/kg	N/A	1.48E-01	1.55E-01	
	J1FK59								
	MF9NE1AA	HEXCHROME	1.50E-01 +- 0.0E+00	U	mg/kg	N/A	1.50E-01	1.55E-01	
	J1FK60								
	MF9NF1AA	HEXCHROME	1.58E-01 +- 0.0E+00		mg/kg	N/A	1.45E-01	1.55E-01	
	J1FK61								
	MF9NG1AA	HEXCHROME	1.49E-01 +- 0.0E+00	U	mg/kg	N/A	1.49E-01	1.55E-01	
	J1FK62								
	MF9NJ1AA	HEXCHROME	1.50E-01 +- 0.0E+00	U	mg/kg	N/A	1.50E-01	1.55E-01	
	J1FK63								
	MF9NM1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1FK64								
	MF9Q11AA	HEXCHROME	1.44E-01 +- 0.0E+00	U	mg/kg	N/A	1.44E-01	1.55E-01	
	J1FK65								
	MF9Q21AA	HEXCHROME	1.50E-01 +- 0.0E+00	U	mg/kg	N/A	1.50E-01	1.55E-01	

No. of Results: 16

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: 01-Apr-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46113

SDG No.: JP0143

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1089123 MATRIX SPIKE, J1FK51								
MF9M31AC	HEXCHROME	8.04E+00 +- 0.0E+00		mg/kg	N/A	75%	-0.2	1.54E-01
1089123 LCS,								
MGCH41AC	HEXCHROME	1.88E+01 +- 0.0E+00		mg/kg	N/A	94%	-0.1	1.55E-01
1089123 BLANK QC,								
MGCH41AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 3

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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 9:55:00 AM
Lot-Sample No.:	J1C280484-1	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK51	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9M31AA		Report DB ID:	9MF9M310				
HEXCHROME	*1.67E-01*			0.0E+00	1.50E-01	mg/kg	N/A	*(1.1)*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 10:00:00 AM
Lot-Sample No.:	J1C280484-2	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK52	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC |MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9M51AA		Report DB ID:	9MF9M510				
HEXCHROME	***1.64E-01***			0.0E+00	1.50E-01	mg/kg	N/A	*(1.1)*	3/30/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 10:05:00 AM
Lot-Sample No.:	J1C280484-3	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK53	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order: MF9M71AA			Report DB ID: 9MF9M710					
HEXCHROME	***3.39E-01***			0.0E+00	1.48E-01	mg/kg	N/A	*(2.3)*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 10:10:00 AM
Lot-Sample No.:	J1C280484-4	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK54	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9M81AA		Report DB ID:	9MF9M810				
HEXCHROME	***1.49E-01***	U		0.0E+00	1.49E-01	mg/kg	N/A	*1.*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	**SDG:**	JP0143	**Collection Date:**	3/25/2011 9:35:00 AM
Lot-Sample No.:	J1C280484-5	**Report No. :**	46113	**Received Date:**	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK55	**COC No. :**	RC-075-231	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			**Work Order:** MF9M91AA			**Report DB ID:** 9MF9M910					
HEXCHROME	***1.51E-01***	U		0.0E+00	1.51E-01	mg/kg	N/A	*(1.)*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 9:30:00 AM
Lot-Sample No.:	J1C280484-6	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK56	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9NA1AA		Report DB ID:	9MF9NA10				
HEXCHROME	***1.45E-01***	U		0.0E+00	1.45E-01	mg/kg	N/A	*(1.)*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 9:25:00 AM
Lot-Sample No.:	J1C280484-7	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK57	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9NC1AA		Report DB ID:	9MF9NC10				
HEXCHROME	***1.47E-01***	U		0.0E+00	1.47E-01	mg/kg	N/A	*(1.)*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 9:20:00 AM
Lot-Sample No.:	J1C280484-8	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK58	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9ND1AA		Report DB ID:	9MF9ND10				
HEXCHROME	***1.48E-01***	U		0.0E+00	1.48E-01	mg/kg	N/A	*1.*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 8:55:00 AM
Lot-Sample No.:	J1C280484-9	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK59	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9NE1AA		Report DB ID:	9MF9NE10				
HEXCHROME	***1.50E-01***	U		0.0E+00	1.50E-01	mg/kg	N/A	*1.*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 8:50:00 AM
Lot-Sample No.:	J1C280484-10	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK60	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9NF1AA		Report DB ID:	9MF9NF10				
HEXCHROME	***1.58E-01***			0.0E+00	1.45E-01	mg/kg	N/A	*(1.1)*	3/30/11		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica Laboratories, Inc.

17

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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 8:45:00 AM
Lot-Sample No.:	J1C280484-11	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK61	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9NG1AA		Report DB ID:	9MF9NG10				
HEXCHROME	***1.49E-01***	U		0.0E+00	1.49E-01	mg/kg	N/A	*1.*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 8:40:00 AM
Lot-Sample No.:	J1C280484-12	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK62	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9NJ1AA		Report DB ID:	9MF9NJ10				
HEXCHROME	***1.50E-01***	U		0.0E+00	1.50E-01	mg/kg	N/A	*1.*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 9:25:00 AM
Lot-Sample No.:	J1C280484-13	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK63	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order: MF9NM1AA			Report DB ID: 9MF9NM10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 10:30:00 AM
Lot-Sample No.:	J1C280484-14	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK64	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9Q11AA		Report DB ID:	9MF9Q110				
HEXCHROME	***1.44E-01***	U		0.0E+00	1.44E-01	mg/kg	N/A	*(1.)*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 10:35:00 AM
Lot-Sample No.:	J1C280484-15	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK65	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order:	MF9Q21AA		Report DB ID:	9MF9Q210				
HEXCHROME	***1.50E-01***	U		0.0E+00	1.50E-01	mg/kg	N/A	*1.*	3/30/11		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: 01-Apr-11

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 10:35:00 AM
Lot-Sample No.:	J1C280484-15	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK65	COC No. :	RC-075-231	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

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

TestAmerica Laboratories, Inc.

23

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: 01-Apr-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	JP0143	Collection Date:	3/25/2011 9:55:00 AM
Lot-Sample No.:	J1C280484-1	Report No. :	46113	Received Date:	3/25/2011 12:40:00 PM
Client Sample ID:	J1FK51	COC No. :	RC-075-231	Matrix:	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 1089123	7196_CR6			Work Order: MF9M31AE		Report DB ID: MF9M31ER			Orig Sa DB ID: 9MF9M310			
HEXCHROME	2.50E-01			0.0E+00	1.47E-01	mg/kg	N/A	(1.7)	3/30/11		2.5	
	1.67E-01		RPD 39.8			3.50E-01		N/A			g	

No. of Results: 1 Comments:

TestAmerica RPD - Relative Percent Difference.

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

.12 A2002

FORM II

BLANK RESULTS

Date: 01-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0143

Report No. : 46113

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: 1089123	7196_CR6			Work Order:	MGCH41AA		Report DB ID:	MGCH41AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	3/30/11		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 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: 01-Apr-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0143

Report No. : 46113

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: 1089123	7196_CR6			Work Order:	MGCH41AC		Report DB ID:	MGCH41AS					
HEXCHROME	1.88E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		94%	3/30/11	2.5	
							Rec Limits:	80	120	-0.1		g	

No. of Results: 1 Comments:

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

rptSTLRchLcs
V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 01-Apr-11

Lab Name: TestAmerica

SDG: JP0143

Lot-Sample No.: J1C280484-1, J1FK51

Report No. : 46113

Matrix: SOIL

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 1089123	Work Order: MF9M31AC			Report DB ID: MF9M31CW			Orig Sa DB ID: 9MF9M310					
HEXCHROME	8.04E+00			0.0E+00	1.54E-01	mg/kg	N/A	75.05%	1.07E+01	3/30/11	2.5	7196_CR6
	1.67E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 A2002

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1089123
Lab Sample Numbers or SDG: JP0143
Method/Test/Parameter: Cr+6 in SOLID / RL-WC-004

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

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

Comments on any "No" response Duplicate not within acceptance criteria possibly due to inhomogeneity of sample.

Analyst: _____ Date: 3-31-11

Second-Level Review: _____ Date: 3-31-11

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-17924**
NCM Initiated By: Hooshang Rahavi
Date Opened: 03/31/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1C280484 (1,10,11,12,13,14,15,2,3,4,5, 6,7,8,9),
QC Batches: 1089123,

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

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	03/31/2011	Duplicate not within acceptance criteria possibly due to inhomogeneity of sample.

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	03/31/2011	Report data

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

3/30/2011 9:09:11 AM

Sample Preparation/Analysis

27642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:
Pipet #:

AnalyDueDate: 04/04/2011

Batch: 1089123 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MF9M3-1-AA J1C280484-1-SAMP 03/25/2011 09:55	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
2 MF9M3-1-AC-S J1C280484-1-MS 03/25/2011 09:55	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
3 MF9M3-1-AD-D J1C280484-1-MSD 03/25/2011 09:55	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
4 MF9M3-1-AE-X J1C280484-1-DUP 03/25/2011 09:55	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
5 MF9M5-1-AA J1C280484-2-SAMP 03/25/2011 10:00	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
6 MF9M7-1-AA J1C280484-3-SAMP 03/25/2011 10:05	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
7 MF9M8-1-AA J1C280484-4-SAMP 03/25/2011 10:10	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

03/30/2011 9:09:11 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:
Pipet #:

AnalyDueDate: 04/04/2011

Batch: 1089123 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

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 MF9M9-1-AA J1C280484-5-SAMP 03/25/2011 09:35	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
9 MF9NA-1-AA J1C280484-6-SAMP 03/25/2011 09:30	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
10 MF9NC-1-AA J1C280484-7-SAMP 03/25/2011 09:25	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
11 MF9ND-1-AA J1C280484-8-SAMP 03/25/2011 09:20	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
12 MF9NE-1-AA J1C280484-9-SAMP 03/25/2011 08:55	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
13 MF9NF-1-AA J1C280484-10-SAMP 03/25/2011 08:50	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
14 MF9NG-1-AA J1C280484-11-SAMP 03/25/2011 08:45	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

03/30/2011 9:09:12 AM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

Balance Id:
Pipet #:

AnalyDueDate: 04/04/2011

Sep1 DT/Tm Tech:

Batch: 1089123 SOIL mg/kg PM, Quote: RW2, 27038

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MF9NJ-1-AA J1C280484-12-SAMP 03/25/2011 08:40	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
16 MF9NM-1-AA J1C280484-13-SAMP 03/25/2011 09:25	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
17 MF9Q1-1-AA J1C280484-14-SAMP 03/25/2011 10:30	AmtRec: 1XJAR60MLG	#Containers: 1						Scr:	Alpha:	Beta:
18 MGCH4-1-AA-B J1C300000-123-BLK 03/30/2011 09:09 pd	AmtRec:	#Containers: 1						Scr:	Alpha:	Beta:
19 MGCH4-1-AC-C J1C300000-123-LCS 03/30/2011 09:09 pd	AmtRec:	#Containers: 1						Scr:	Alpha:	Beta:

Comments:

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

MF9M31AA-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20

TestAmerica Laboratories, Inc.

Sample Preparation/Analysis

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

AnalyDueDate: 04/04/2011

Batch: 1089123 mg/kg
SEQ Batch, Test: None

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

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

MF9M31AC-MS Constituent List:

MF9M31AD-MSD:

MGCH41AA-BLK:

MGCH41AC-LCS:

MF9M31AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF9M31AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MF9M31AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MGCH41AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MGCH41AC-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: 280-13997-1

SDG Number: JP0143

Job Description: SAF# RC-075

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

Attention: Joan H Kessner

RECEIVED
APR 2011

Approved for release.
Kae E Yoder
Project Manager II
4/9/2011 2:39 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/09/2011

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

The Lab Certification ID# is E87667.

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

Cover Title Page 1
Report Narrative 3
Data Qualifiers 5
Method Summary 6
Method / Analyst Summary 7
Sample Summary 8
Sample Results 9
Sample Datasheets 10
QC Results 130
Qc Association Summary 131
Qc Reports 139
Client Chain of Custody 157
Sample Receipt Checklist 161

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-13997-1

SDG #: JP0143
SAF#: RC-075

Date SDG Closed: March 29, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FK51	280-13997-1	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK52	280-13997-2	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK53	280-13997-3	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK54	280-13997-4	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK55	280-13997-5	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK56	280-13997-6	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK57	280-13997-7	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK58	280-13997-8	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK59	280-13997-9	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK60	280-13997-10	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK61	280-13997-11	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK62	280-13997-12	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK63	280-13997-13	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK64	280-13997-14	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A
J1FK65	280-13997-15	6010/7471/WTPH-D+/8270A/8082/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8081A

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 3/29/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.8 C, 2.7 C and 3.7 C.

Sample collection dates were not listed on the chain-of-custody associated with samples J1FK61, J1FK62 and J1FK63. The sample collection dates were logged as 3/25/2011, per the information on the sample container labels. The client was notified on 3/30/2011.

GC/MS SEMIVOLATILES - SW846 8270C
No anomalies were encountered.

GC SEMIVOLATILES - SW846 8081A - PESTICIDEs
No anomalies were encountered.

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

GC SEMIVOLATILES - NWTPH-Dx - DRO
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-59827 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. Samples J1FK54 and J1FK58 required a 5X dilution prior to the analysis of Beryllium, Cobalt, Copper, Lead and Vanadium to minimize the interference caused by Titanium concentrations greater than the linear range. The reporting limits have been adjusted relative to the dilution required.

Low levels of Chromium and Zinc are present in the method blank associated with batch 280-59827. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1FK51; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1FK51, 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.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyzed for but not detected.
	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.
	N	Recovery exceeds upper or lower control limits
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

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: 280-13997-1
Sdg Number: JP0143

Method	Analyst	Analyst ID
SW846 8270C	Kiekel, Daniel C	DCK
SW846 8081A	Wells, David	DW
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Stoltz, Katie	KS
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13997-1	J1FK51	Solid	03/25/2011 0955	03/29/2011 0830
280-13997-2	J1FK52	Solid	03/25/2011 1000	03/29/2011 0830
280-13997-3	J1FK53	Solid	03/25/2011 1005	03/29/2011 0830
280-13997-4	J1FK54	Solid	03/25/2011 1010	03/29/2011 0830
280-13997-5	J1FK55	Solid	03/25/2011 0935	03/29/2011 0830
280-13997-6	J1FK56	Solid	03/25/2011 0930	03/29/2011 0830
280-13997-7	J1FK57	Solid	03/25/2011 0925	03/29/2011 0830
280-13997-8	J1FK58	Solid	03/25/2011 0920	03/29/2011 0830
280-13997-9	J1FK59	Solid	03/25/2011 0855	03/29/2011 0830
280-13997-10	J1FK60	Solid	03/25/2011 0850	03/29/2011 0830
280-13997-11	J1FK61	Solid	03/25/2011 0845	03/29/2011 0830
280-13997-12	J1FK62	Solid	03/25/2011 0840	03/29/2011 0830
280-13997-13	J1FK63	Solid	03/25/2011 0925	03/29/2011 0830
280-13997-14	J1FK64	Solid	03/25/2011 1030	03/29/2011 0830
280-13997-15	J1FK65	Solid	03/25/2011 1035	03/29/2011 0830

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9788.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 1724			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		17	U	17	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		48	U	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		69	U	69	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		28	U	28	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		95	U	95	690
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		69	U	69	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	690
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		69	U	69	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9788.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 1724			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		33	U	33	350
2-Nitroaniline		53	U	53	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		76	U	76	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	690
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	74		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	76		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	86		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9788.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 1724			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **14**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	420	N J
	Unknown	2.64	470	N J
	Unknown	2.82	180	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	220	N J
	Unknown	2.93	140	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	290	N J
	Unknown	3.07	4100	N J
593-49-7	Heptacosane	10.95	210	N J
7225-66-3	Tridecane, 7-hexyl-	11.43	490	N J
112-95-8	Eicosane	12.01	220	N J
57-87-4	Ergosterol	12.83	270	N J
4651-51-8	Ergost-5-en-3-ol, (3.beta.)-	12.94	180	N J
83-48-7	Stigmasterol	13.04	240	N J
83-47-6	.gamma.-Sitosterol	13.35	980	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid

% Moisture: 6.7

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9789.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	03/30/2011 1744			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		42	U	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		48	U	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		37	U	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9789.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	03/30/2011 1744			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	690
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		13	U	13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol	74		53 - 120
Nitrobenzene-d5	76		50 - 120
Phenol-d5	77		52 - 120
Terphenyl-d14	84		55 - 120
2,4,6-Tribromophenol	85		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9789.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	03/30/2011 1744			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **6**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	330	N J
	Unknown	2.64	930	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	170	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	230	N J
	Unknown	3.07	3800	N J
	Unknown	13.35	160	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9790.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	03/30/2011 1805			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9790.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	03/30/2011 1805			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	71		50 - 120
2-Fluorophenol	70		53 - 120
Nitrobenzene-d5	71		50 - 120
Phenol-d5	74		52 - 120
Terphenyl-d14	86		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9790.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	03/30/2011 1805			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.69	400	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.87	150	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	230	N J
	Unknown	3.07	4100	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9791.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	03/30/2011 1825			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9791.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	03/30/2011 1825			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	72		50 - 120
2-Fluorophenol	72		53 - 120
Nitrobenzene-d5	74		50 - 120
Phenol-d5	75		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	80		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9791.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	03/30/2011 1825			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	450	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	170	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.99	250	N J
	Unknown	3.07	4000	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9792.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 1846			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		18	U	18	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		49	U	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		70	U	70	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		28	U	28	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		95	U	95	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9792.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 1846			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	62		50 - 120
2-Fluorophenol	62		53 - 120
Nitrobenzene-d5	63		50 - 120
Phenol-d5	65		52 - 120
Terphenyl-d14	80		55 - 120
2,4,6-Tribromophenol	77		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid — % Moisture: 5.9

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9792.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 1846			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.69	260	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	190	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	220	N J
	Unknown	3.07	3500	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9793.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 1906			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9793.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 1906			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		17	U	17	340
Phenol		19	U	19	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	77		53 - 120
Nitrobenzene-d5	77		50 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	87		55 - 120
2,4,6-Tribromophenol	88		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9793.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 1906			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.69	280	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.87	210	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	240	N J
	Unknown	3.07	3900	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9796.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	03/30/2011 2007			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9796.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	03/30/2011 2007			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	68		50 - 120
2-Fluorophenol	70		53 - 120
Nitrobenzene-d5	72		50 - 120
Phenol-d5	73		52 - 120
Terphenyl-d14	78		55 - 120
2,4,6-Tribromophenol	77		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9796.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	03/30/2011 2007			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	440	N J
	Unknown	2.82	180	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	260	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.99	320	N J
	Unknown	3.07	3700	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9797.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 2027			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		27	U	27	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		26	U	26	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		28	U	28	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9797.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 2027			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		28	U	28	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	63		50 - 120
2-Fluorophenol	63		53 - 120
Nitrobenzene-d5	65		50 - 120
Phenol-d5	66		52 - 120
Terphenyl-d14	78		55 - 120
2,4,6-Tribromophenol	75		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9797.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/30/2011 2027			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.69	320	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.87	180	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	220	N J
	Unknown	3.07	3500	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9798.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 2048			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		42	U	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		48	U	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		37	U	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9798.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 2048			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	75		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	87		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid % Moisture: 4.3

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9798.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 2048			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	510	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	180	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.99	280	N J
	Unknown	3.07	4400	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9799.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	03/30/2011 2108			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9799.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	03/30/2011 2108			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	72		50 - 120
2-Fluorophenol	73		53 - 120
Nitrobenzene-d5	74		50 - 120
Phenol-d5	76		52 - 120
Terphenyl-d14	82		55 - 120
2,4,6-Tribromophenol	84		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9799.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	03/30/2011 2108			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.69	350	N J
	Unknown	2.64	440	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.87	160	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	200	N J
	Unknown	3.07	4100	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9800.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2128			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		87	J	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		37	U	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9800.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2128			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		13	U	13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	70		50 - 120
2-Fluorophenol	69		53 - 120
Nitrobenzene-d5	72		50 - 120
Phenol-d5	72		52 - 120
Terphenyl-d14	81		55 - 120
2,4,6-Tribromophenol	79		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9800.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2128			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **6**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	370	N J
	Unknown	2.65	150	N J
	Unknown	2.82	150	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.87	210	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	250	N J
	Unknown	3.07	3800	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid % Moisture: 3.4

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9801.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2149			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		63	J	47	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		84	U	84	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		17	U	17	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9801.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2149			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		17	U	17	340
Phenol		19	U	19	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	89		55 - 120
2,4,6-Tribromophenol	88		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9801.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2149			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 5

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	580	N J
	Unknown	2.82	180	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	260	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	320	N J
	Unknown	3.07	4300	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9802.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 2209			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		17	U	17	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		48	U	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		70	U	70	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		28	U	28	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		95	U	95	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9802.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 2209			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		33	U	33	350
2-Nitroaniline		53	U	53	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		76	U	76	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	700
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	700
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	73		53 - 120
Nitrobenzene-d5	76		50 - 120
Phenol-d5	76		52 - 120
Terphenyl-d14	88		55 - 120
2,4,6-Tribromophenol	83		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid % Moisture: 5.4

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9802.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/30/2011 2209			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **6**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	580	N J
	Unknown	2.82	160	N J
	Unknown	2.88	220	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.99	290	N J
	Unknown	3.07	4300	N J
103-23-1	Hexanedioic acid, bis(2-ethylhexyl) este	10.22	220	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid

% Moisture: 6.2

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9803.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 2230			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		16	U	16	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		46	U	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		81	U	81	330
4-Chloro-3-methylphenol		65	U	65	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		13	U	13	330
3,3'-Dichlorobenzidine		89	U	89	650
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		65	U	65	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	650
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		65	U	65	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9803.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 2230			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		72	U	72	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		9.9	U	9.9	330
4-Nitrophenol		96	U	96	650
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	650
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		9.9	U	9.9	330
2,4,6-Trichlorophenol		9.9	U	9.9	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	71		50 - 120
2-Fluorophenol	72		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	75		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	79		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9803.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	03/30/2011 2230			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	400	N J
	Unknown	2.64	700	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	150	N J
	Unknown	2.99	230	N J
	Unknown	3.07	3900	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9804.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	03/30/2011 2250			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		27	U	27	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		17	U	17	350
bis(2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		48	U	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		69	U	69	350
2-Chloronaphthalene		10	U	10	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		28	U	28	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		69	U	69	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		30	U	30	350
4,6-Dinitro-2-methylphenol		350	U	350	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		30	U	30	350
Hexachlorobutadiene		10	U	10	350
Hexachlorocyclopentadiene		52	U	52	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9804.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	03/30/2011 2250			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		32	U	32	350
2-Nitroaniline		52	U	52	350
3-Nitroaniline		76	U	76	350
4-Nitroaniline		76	U	76	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		10	U	10	350
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	690
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		10	U	10	350
2,4,6-Trichlorophenol		10	U	10	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	68		50 - 120
2-Fluorophenol	69		53 - 120
Nitrobenzene-d5	70		50 - 120
Phenol-d5	71		52 - 120
Terphenyl-d14	79		55 - 120
2,4,6-Tribromophenol	78		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-59851	Lab File ID:	K9804.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	03/30/2011 2250			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.70	300	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.88	210	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	240	N J
	Unknown	3.07	3600	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1602			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	81		59 - 115
Decachlorobiphenyl	88		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1620			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.23	U	0.23	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.23	U	0.23	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.19	U	0.19	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1637			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		50 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1654			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	97		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1712			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.60	U	0.60	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.3
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	95		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1729			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	94		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid

% Moisture: 5.8

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1746			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.27	U	0.27	1.7
alpha-BHC		0.23	U	0.23	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.23	U	0.23	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.19	U	0.19	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	98		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid

% Moisture: 3.7

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1804			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	93		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid

% Moisture: 4.3

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1821			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.60	U	0.60	1.7
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	U	0.68	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.47	U	0.47	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	101		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1930			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	96		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 1947			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	96		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 2005			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.43	U	0.43	1.6
Endosulfan I		0.18	U	0.18	1.6
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	85		59 - 115
Decachlorobiphenyl	95		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 2022			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 2039			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		59 - 115
Decachlorobiphenyl	86		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Prep Method:	3550C	Prep Batch:	280-59800	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	03/30/2011 2057			Injection Volume:	1 uL
Prep Date:	03/29/2011 1350			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		59 - 115
Decachlorobiphenyl	98		63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 0244			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	17
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		4.9	U	4.9	11
Aroclor 1248		4.9	U	4.9	11
Aroclor 1254		2.7	U	2.7	11
Aroclor 1260		2.7	U	2.7	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	85		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid

% Moisture: 6.7

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 0807			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	88		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 0829			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	95		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 0850			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	97		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 0912			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 0933			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	97		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1016			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	102		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1038			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			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	89		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1059			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.6	U	4.6	10
Aroclor 1248		4.6	U	4.6	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	103		59 - 130
Tetrachloro-m-xylene	102		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid % Moisture: 5.8

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1121			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98		59 - 130
Tetrachloro-m-xylene	101		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1142			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	102		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1204			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.1	U	8.1	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1225			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.6	U	4.6	10
Aroclor 1248		4.6	U	4.6	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	97		59 - 130
Tetrachloro-m-xylene	98		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	32.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1320			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	99		59 - 130
Tetrachloro-m-xylene	101		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid % Moisture: 4.5

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-59839	Initial Weight/Volume:	32.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	03/31/2011 1342			Injection Volume:	1 uL
Prep Date:	03/29/2011 1556			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		2.5	U	2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	102		59 - 130
Tetrachloro-m-xylene	100		53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	059B1201.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	03/31/2011 2049			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8600		1000	4200
C10-C28		1500	J	710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	78		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	058B1101.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	03/31/2011 2016			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		5000		1000	4100
C10-C28		2000	J	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	057B1001.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 1943			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	056B0901.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	03/31/2011 1910			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4200
C10-C28		700	U	700	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	78		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	055B0801.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	03/31/2011 1837			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4000
C10-C28		680	U	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	054B0701.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 1804			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4100
C10-C28		700	U	700	4100

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	053B0601.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	03/31/2011 1731			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1700	J	1000	4200
C10-C28		710	U	710	4200

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	052B0501.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	03/31/2011 1658			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4000
C10-C28		680	U	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	086B3901.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	03/31/2011 1003			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4100
C10-C28		700	U	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	085B3801.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	03/31/2011 0929			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4100
C10-C28		700	U	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	78		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	084B3701.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/31/2011 0855			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4100
C10-C28		690	U	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	76		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	083B3601.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	03/31/2011 0821			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4100
C10-C28		690	U	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	75		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	082B3501.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 0747			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4200
C10-C28		700	U	700	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	73		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	079B3201.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	03/31/2011 0608			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4200
C10-C28		710	U	710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-59814	Lab File ID:	061B1401.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	03/31/2011 2154			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	U	1000	4000
C10-C28		680	U	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	75		49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	03/30/2011 1735			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5250	X	1.5	4.8
Antimony		0.43	B	0.36	0.58
Arsenic		2.3		0.63	0.96
Barium		51.8	X	0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.94	U	0.94	1.9
Cadmium		0.049	B	0.039	0.19
Calcium		6500	X	13.5	47.9
Chromium		4.8	X	0.056	0.19
Cobalt		9.2	X	0.096	0.96
Copper		16.3	X	0.21	0.96
Iron		22200	X	3.6	4.8
Lead		9.0		0.26	0.48
Magnesium		3910	X	3.5	19.2
Manganese		285	X	0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		7.5	X	0.12	3.8
Potassium		1260		39.3	288
Selenium		0.82	U	0.82	0.96
Silicon		339	X N	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		298		56.6	115
Vanadium		57.1	X	0.090	1.9
Zinc		41.0	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	03/31/2011 1837			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid

% Moisture: 6.7

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	03/30/2011 1745			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6530	X	1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		2.7		0.63	0.96
Barium		54.9	X	0.073	0.48
Beryllium		0.032	U	0.032	0.19
Boron		1.0	B	0.94	1.9
Cadmium		0.070	B	0.039	0.19
Calcium		7420	X	13.5	47.9
Chromium		7.6	X	0.056	0.19
Cobalt		9.1	X	0.096	0.96
Copper		17.1	X	0.21	0.96
Iron		21800	X	3.6	4.8
Lead		7.3		0.26	0.48
Magnesium		3990	X	3.5	19.1
Manganese		304	X	0.096	0.96
Molybdenum		0.26	B	0.25	1.9
Nickel		9.6	X	0.12	3.8
Potassium		988		39.2	287
Selenium		0.82	U	0.82	0.96
Silicon		318	X	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		278		56.5	115
Vanadium		64.1	X	0.090	1.9
Zinc		41.7	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/31/2011 1839			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0060	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	03/30/2011 1747			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8300	X	1.6	5.2
Antimony		0.40	U	0.40	0.62
Arsenic		3.8		0.69	1.0
Barium		80.8	X	0.079	0.52
Beryllium		0.066	B	0.034	0.21
Boron		1.7	B	1.0	2.1
Cadmium		0.069	B	0.043	0.21
Calcium		8450	X	14.7	52.0
Chromium		10.4	X	0.060	0.21
Cobalt		9.4	X	0.10	1.0
Copper		18.6	X	0.23	1.0
Iron		22900	X	4.0	5.2
Lead		6.3		0.28	0.52
Magnesium		5550	X	3.8	20.8
Manganese		372	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		19.1	X	0.13	4.2
Potassium		1430		42.6	312
Selenium		0.89	U	0.89	1.0
Silicon		488	X	5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		244		61.3	125
Vanadium		56.8	X	0.098	2.1
Zinc		43.1	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/31/2011 1842			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0075	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	03/30/2011 1749			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5690	X	1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		2.1		0.59	0.89
Barium		48.6	X	0.068	0.44
Boron		0.87	U	0.87	1.8
Cadmium		0.046	B	0.036	0.18
Calcium		6700	X	12.5	44.4
Chromium		4.9	X	0.052	0.18
Iron		24100	X	3.4	4.4
Magnesium		4200	X	3.3	17.8
Manganese		295	X	0.089	0.89
Molybdenum		0.24	B	0.23	1.8
Nickel		8.0	X	0.11	3.6
Potassium		740		36.4	267
Selenium		0.76	U	0.76	0.89
Silicon		221	X	5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		341		52.4	107
Zinc		42.1	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-60262	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033111.asc
Dilution:	5.0			Initial Weight/Volume:	1.18 g
Analysis Date:	03/31/2011 1420			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.15	U	0.15	0.89
Cobalt		11.3	X	0.44	4.4
Copper		19.9	X	0.96	4.4
Lead		2.2		1.2	2.2
Vanadium		72.1	X	0.42	8.9

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/31/2011 1844			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/30/2011 1752			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7170	X	1.6	5.1
Antimony		0.38	U	0.38	0.61
Arsenic		2.7		0.67	1.0
Barium		78.5	X	0.077	0.51
Beryllium		0.033	U	0.033	0.20
Boron		0.99	U	0.99	2.0
Cadmium		0.066	B	0.041	0.20
Calcium		5750	X	14.3	50.6
Chromium		7.6	X	0.059	0.20
Cobalt		9.9	X	0.10	1.0
Copper		16.2	X	0.22	1.0
Iron		22500	X	3.8	5.1
Lead		11.0		0.27	0.51
Magnesium		4140	X	3.7	20.2
Manganese		399	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		9.8	X	0.12	4.0
Potassium		1260		41.5	304
Selenium		0.87	U	0.87	1.0
Silicon		374	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		254		59.7	121
Vanadium		60.9	X	0.095	2.0
Zinc		42.3	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/31/2011 1846			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	03/30/2011 1804			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6960	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		2.2		0.67	1.0
Barium		54.6	X	0.077	0.51
Beryllium		0.034	U	0.034	0.20
Boron		1.0	U	1.0	2.0
Cadmium		0.054	B	0.042	0.20
Calcium		5400	X	14.4	50.9
Chromium		7.7	X	0.059	0.20
Cobalt		9.8	X	0.10	1.0
Copper		17.2	X	0.22	1.0
Iron		24800	X	3.9	5.1
Lead		7.1		0.27	0.51
Magnesium		4490	X	3.8	20.4
Manganese		337	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.3	X	0.13	4.1
Potassium		1270		41.8	306
Selenium		0.88	U	0.88	1.0
Silicon		339	X	5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		269		60.1	122
Vanadium		62.7	X	0.096	2.0
Zinc		43.0	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/31/2011 1848			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	03/30/2011 1806			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6880	X	1.5	4.9
Antimony		0.37	U	0.37	0.58
Arsenic		2.4		0.64	0.97
Barium		59.0	X	0.074	0.49
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.083	B	0.040	0.19
Calcium		5720	X	13.7	48.7
Chromium		7.8	X	0.056	0.19
Cobalt		9.6	X	0.097	0.97
Copper		17.0	X	0.21	0.97
Iron		22000	X	3.7	4.9
Lead		6.2		0.26	0.49
Magnesium		4490	X	3.6	19.5
Manganese		306	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		10.6	X	0.12	3.9
Potassium		1140		39.9	292
Selenium		0.84	U	0.84	0.97
Silicon		442	X	5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		318		57.4	117
Vanadium		56.8	X	0.092	1.9
Zinc		41.5	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/31/2011 1851			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	03/30/2011 1808			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5630	X	1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		2.1		0.61	0.92
Barium		46.5	X	0.070	0.46
Boron		0.90	U	0.90	1.8
Cadmium		0.051	B	0.038	0.18
Calcium		6190	X	13.0	45.9
Chromium		5.6	X	0.053	0.18
Iron		25000	X	3.5	4.6
Magnesium		4630	X	3.4	18.4
Manganese		323	X	0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		11.1	X	0.11	3.7
Potassium		757		37.7	276
Selenium		0.79	U	0.79	0.92
Silicon		277	X	5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		393		54.2	110
Zinc		44.0	X	0.37	0.92

Analysis Method:	6010B	Analysis Batch:	280-60262	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033111.asc
Dilution:	5.0			Initial Weight/Volume:	1.13 g
Analysis Date:	03/31/2011 1423			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Beryllium		0.15	U	0.15	0.92
Cobalt		12.5	X	0.46	4.6
Copper		18.7	X	1.0	4.6
Lead		1.8	B	1.2	2.3
Vanadium		73.3	X	0.43	9.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	03/31/2011 1853			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid
% Moisture: 4.3

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	03/30/2011 1811			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7420	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.9		0.64	0.97
Barium		64.1	X	0.074	0.48
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.068	B	0.040	0.19
Calcium		6640	X	13.6	48.4
Chromium		8.1	X	0.056	0.19
Cobalt		10.7	X	0.097	0.97
Copper		18.0	X	0.21	0.97
Iron		24900	X	3.7	4.8
Lead		11.0		0.26	0.48
Magnesium		4670	X	3.6	19.4
Manganese		361	X	0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		10.6	X	0.12	3.9
Potassium		1240		39.7	290
Selenium		0.83	U	0.83	0.97
Silicon		292	X	5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		356		57.1	116
Vanadium		63.9	X	0.091	1.9
Zinc		45.8	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/31/2011 1902			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0060	B	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	03/30/2011 1813			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6630	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		2.9		0.66	1.0
Barium		58.2	X	0.076	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.98	U	0.98	2.0
Cadmium		0.049	B	0.041	0.20
Calcium		6410	X	14.1	50.1
Chromium		7.0	X	0.058	0.20
Cobalt		9.6	X	0.10	1.0
Copper		17.2	X	0.22	1.0
Iron		23700	X	3.8	5.0
Lead		5.6		0.27	0.50
Magnesium		4560	X	3.7	20.0
Manganese		319	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.8	X	0.12	4.0
Potassium		1120		41.1	301
Selenium		0.86	U	0.86	1.0
Silicon		380	X	5.7	10.0
Silver		0.16	U	0.16	0.20
Sodium		342		59.1	120
Vanadium		63.0	X	0.094	2.0
Zinc		42.9	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/31/2011 1904			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	03/30/2011 1816			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5480	X	1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		2.6		0.58	0.89
Barium		60.8	X	0.067	0.44
Beryllium		0.029	U	0.029	0.18
Boron		0.87	U	0.87	1.8
Cadmium		0.055	B	0.036	0.18
Calcium		6300	X	12.5	44.3
Chromium		5.6	X	0.051	0.18
Cobalt		10.2	X	0.089	0.89
Copper		17.1	X	0.19	0.89
Iron		25200	X	3.4	4.4
Lead		5.1		0.24	0.44
Magnesium		4460	X	3.3	17.7
Manganese		332	X	0.089	0.89
Molybdenum		0.23	B	0.23	1.8
Nickel		12.7	X	0.11	3.5
Potassium		772		36.3	266
Selenium		0.76	U	0.76	0.89
Silicon		261	X	5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		376		52.2	106
Vanadium		67.4	X	0.083	1.8
Zinc		42.9	X	0.35	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/31/2011 1911			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	03/30/2011 1818			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4950	X	1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		2.6		0.66	1.0
Barium		44.8	X	0.076	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.98	U	0.98	2.0
Cadmium		0.044	B	0.041	0.20
Calcium		6010	X	14.0	49.8
Chromium		4.6	X	0.058	0.20
Cobalt		10.5	X	0.10	1.0
Copper		16.6	X	0.22	1.0
Iron		25200	X	3.8	5.0
Lead		2.1		0.27	0.50
Magnesium		4020	X	3.7	19.9
Manganese		319	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		7.6	X	0.12	4.0
Potassium		768		40.8	299
Selenium		0.86	U	0.86	1.0
Silicon		366	X	5.6	10
Silver		0.16	U	0.16	0.20
Sodium		286		58.7	119
Vanadium		71.7	X	0.094	2.0
Zinc		46.1	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/31/2011 1913			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid
% Moisture: 5.4

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	03/30/2011 1821			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6470	X	1.6	5.2
Antimony		0.39	U	0.39	0.62
Arsenic		2.6		0.68	1.0
Barium		63.6	X	0.079	0.52
Beryllium		0.034	U	0.034	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.092	B	0.042	0.21
Calcium		5150	X	14.6	51.8
Chromium		6.1	X	0.060	0.21
Cobalt		8.7	X	0.10	1.0
Copper		17.5	X	0.22	1.0
Iron		19800	X	3.9	5.2
Lead		5.8		0.28	0.52
Magnesium		3920	X	3.8	20.7
Manganese		275	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		8.3	X	0.13	4.1
Potassium		1050		42.5	311
Selenium		0.89	U	0.89	1.0
Silicon		406	X	5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		279		61.1	124
Vanadium		54.2	X	0.097	2.1
Zinc		39.4	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	03/31/2011 1916			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	03/30/2011 1823			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5910	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		2.6		0.67	1.0
Barium		59.5	X	0.077	0.51
Beryllium		0.034	U	0.034	0.20
Boron		1.0	U	1.0	2.0
Cadmium		0.046	B	0.042	0.20
Calcium		6420	X	14.3	50.8
Chromium		6.2	X	0.059	0.20
Cobalt		10.3	X	0.10	1.0
Copper		17.6	X	0.22	1.0
Iron		23400	X	3.9	5.1
Lead		10.8		0.27	0.51
Magnesium		4430	X	3.8	20.3
Manganese		317	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		9.5	X	0.12	4.1
Potassium		980		41.6	305
Selenium		0.87	U	0.87	1.0
Silicon		416	X	5.7	10.2
Silver		0.16	U	0.16	0.20
Sodium		337		59.9	122
Vanadium		62.2	X	0.095	2.0
Zinc		41.9	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	03/31/2011 1918			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60068	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	03/30/2011 1826			Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5920	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		2.3		0.59	0.90
Barium		49.3	X	0.068	0.45
Beryllium		0.030	U	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.059	B	0.037	0.18
Calcium		5540	X	12.6	44.8
Chromium		5.9	X	0.052	0.18
Cobalt		8.9	X	0.090	0.90
Copper		16.0	X	0.19	0.90
Iron		20900	X	3.4	4.5
Lead		3.4		0.24	0.45
Magnesium		3710	X	3.3	17.9
Manganese		259	X	0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		8.2	X	0.11	3.6
Potassium		929		36.7	269
Selenium		0.77	U	0.77	0.90
Silicon		324	X	5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		290		52.8	107
Vanadium		54.1	X	0.084	1.8
Zinc		39.8	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/31/2011 1920			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

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

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK51**

Lab Sample ID: 280-13997-1
Client Matrix: Solid

Date Sampled: 03/25/2011 0955
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK52**

Lab Sample ID: 280-13997-2
Client Matrix: Solid

Date Sampled: 03/25/2011 1000
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK53**

Lab Sample ID: 280-13997-3
Client Matrix: Solid

Date Sampled: 03/25/2011 1005
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK54**

Lab Sample ID: 280-13997-4
Client Matrix: Solid

Date Sampled: 03/25/2011 1010
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK55**

Lab Sample ID: 280-13997-5
Client Matrix: Solid

Date Sampled: 03/25/2011 0935
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK56**

Lab Sample ID: 280-13997-6
Client Matrix: Solid

Date Sampled: 03/25/2011 0930
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK57**

Lab Sample ID: 280-13997-7
Client Matrix: Solid

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK58**

Lab Sample ID: 280-13997-8
Client Matrix: Solid

Date Sampled: 03/25/2011 0920
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK59**

Lab Sample ID: 280-13997-9
Client Matrix: Solid

Date Sampled: 03/25/2011 0855
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK60**

Lab Sample ID: 280-13997-10
Client Matrix: Solid

Date Sampled: 03/25/2011 0850
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK61**

Lab Sample ID: 280-13997-11
Client Matrix: Solid

Date Sampled: 03/25/2011 0845
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK62**

Lab Sample ID: 280-13997-12
Client Matrix: Solid

Date Sampled: 03/25/2011 0840
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK63**

Lab Sample ID: 280-13997-13
Client Matrix: Solid

Date Sampled: 03/25/2011 0925
Date Received: 03/29/2011 0830

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK64**

Lab Sample ID: 280-13997-14
Client Matrix: Solid

Date Sampled: 03/25/2011 1030
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

General Chemistry

Client Sample ID: **J1FK65**

Lab Sample ID: 280-13997-15
Client Matrix: Solid

Date Sampled: 03/25/2011 1035
Date Received: 03/29/2011 0830

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

Analysis Batch: 280-59778 Analysis Date: 03/29/2011 1151 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-59851					
LCS 280-59851/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59851/1-A	Method Blank	T	Solid	3550C	
280-13997-1	J1FK51	T	Solid	3550C	
280-13997-2	J1FK52	T	Solid	3550C	
280-13997-3	J1FK53	T	Solid	3550C	
280-13997-4	J1FK54	T	Solid	3550C	
280-13997-5	J1FK55	T	Solid	3550C	
280-13997-6	J1FK56	T	Solid	3550C	
280-13997-6MS	Matrix Spike	T	Solid	3550C	
280-13997-6MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13997-7	J1FK57	T	Solid	3550C	
280-13997-8	J1FK58	T	Solid	3550C	
280-13997-9	J1FK59	T	Solid	3550C	
280-13997-10	J1FK60	T	Solid	3550C	
280-13997-11	J1FK61	T	Solid	3550C	
280-13997-12	J1FK62	T	Solid	3550C	
280-13997-13	J1FK63	T	Solid	3550C	
280-13997-14	J1FK64	T	Solid	3550C	
280-13997-15	J1FK65	T	Solid	3550C	
Analysis Batch:280-60075					
LCS 280-59851/2-A	Lab Control Sample	T	Solid	8270C	280-59851
MB 280-59851/1-A	Method Blank	T	Solid	8270C	280-59851
280-13997-1	J1FK51	T	Solid	8270C	280-59851
280-13997-2	J1FK52	T	Solid	8270C	280-59851
280-13997-3	J1FK53	T	Solid	8270C	280-59851
280-13997-4	J1FK54	T	Solid	8270C	280-59851
280-13997-5	J1FK55	T	Solid	8270C	280-59851
280-13997-6	J1FK56	T	Solid	8270C	280-59851
280-13997-6MS	Matrix Spike	T	Solid	8270C	280-59851
280-13997-6MSD	Matrix Spike Duplicate	T	Solid	8270C	280-59851
280-13997-7	J1FK57	T	Solid	8270C	280-59851
280-13997-8	J1FK58	T	Solid	8270C	280-59851
280-13997-9	J1FK59	T	Solid	8270C	280-59851
280-13997-10	J1FK60	T	Solid	8270C	280-59851
280-13997-11	J1FK61	T	Solid	8270C	280-59851
280-13997-12	J1FK62	T	Solid	8270C	280-59851
280-13997-13	J1FK63	T	Solid	8270C	280-59851
280-13997-14	J1FK64	T	Solid	8270C	280-59851
280-13997-15	J1FK65	T	Solid	8270C	280-59851

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-59800					
LCS 280-59800/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59800/1-A	Method Blank	T	Solid	3550C	
280-13997-1	J1FK51	T	Solid	3550C	
280-13997-2	J1FK52	T	Solid	3550C	
280-13997-3	J1FK53	T	Solid	3550C	
280-13997-4	J1FK54	T	Solid	3550C	
280-13997-5	J1FK55	T	Solid	3550C	
280-13997-6	J1FK56	T	Solid	3550C	
280-13997-7	J1FK57	T	Solid	3550C	
280-13997-8	J1FK58	T	Solid	3550C	
280-13997-9	J1FK59	T	Solid	3550C	
280-13997-10	J1FK60	T	Solid	3550C	
280-13997-11	J1FK61	T	Solid	3550C	
280-13997-12	J1FK62	T	Solid	3550C	
280-13997-13	J1FK63	T	Solid	3550C	
280-13997-14	J1FK64	T	Solid	3550C	
280-13997-15	J1FK65	T	Solid	3550C	
280-13997-15MS	Matrix Spike	T	Solid	3550C	
280-13997-15MSD	Matrix Spike Duplicate	T	Solid	3550C	
Prep Batch: 280-59814					
LCS 280-59814/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-59814/19-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-59814/1-A	Method Blank	T	Solid	3550C	
280-13997-1	J1FK51	T	Solid	3550C	
280-13997-2	J1FK52	T	Solid	3550C	
280-13997-3	J1FK53	T	Solid	3550C	
280-13997-4	J1FK54	T	Solid	3550C	
280-13997-5	J1FK55	T	Solid	3550C	
280-13997-6	J1FK56	T	Solid	3550C	
280-13997-7	J1FK57	T	Solid	3550C	
280-13997-8	J1FK58	T	Solid	3550C	
280-13997-9	J1FK59	T	Solid	3550C	
280-13997-10	J1FK60	T	Solid	3550C	
280-13997-11	J1FK61	T	Solid	3550C	
280-13997-12	J1FK62	T	Solid	3550C	
280-13997-13	J1FK63	T	Solid	3550C	
280-13997-14	J1FK64	T	Solid	3550C	
280-13997-14MS	Matrix Spike	T	Solid	3550C	
280-13997-14MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13997-15	J1FK65	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-59839					
LCS 280-59839/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-59839/1-A	Method Blank	T	Solid	3550C	
280-13997-1	J1FK51	T	Solid	3550C	
280-13997-1MS	Matrix Spike	T	Solid	3550C	
280-13997-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13997-2	J1FK52	T	Solid	3550C	
280-13997-3	J1FK53	T	Solid	3550C	
280-13997-4	J1FK54	T	Solid	3550C	
280-13997-5	J1FK55	T	Solid	3550C	
280-13997-6	J1FK56	T	Solid	3550C	
280-13997-7	J1FK57	T	Solid	3550C	
280-13997-8	J1FK58	T	Solid	3550C	
280-13997-9	J1FK59	T	Solid	3550C	
280-13997-10	J1FK60	T	Solid	3550C	
280-13997-11	J1FK61	T	Solid	3550C	
280-13997-12	J1FK62	T	Solid	3550C	
280-13997-13	J1FK63	T	Solid	3550C	
280-13997-14	J1FK64	T	Solid	3550C	
280-13997-15	J1FK65	T	Solid	3550C	
Analysis Batch:280-60146					
LCS 280-59800/2-A	Lab Control Sample	T	Solid	8081A	280-59800
MB 280-59800/1-A	Method Blank	T	Solid	8081A	280-59800
280-13997-1	J1FK51	T	Solid	8081A	280-59800
280-13997-2	J1FK52	T	Solid	8081A	280-59800
280-13997-3	J1FK53	T	Solid	8081A	280-59800
280-13997-4	J1FK54	T	Solid	8081A	280-59800
280-13997-5	J1FK55	T	Solid	8081A	280-59800
280-13997-6	J1FK56	T	Solid	8081A	280-59800
280-13997-7	J1FK57	T	Solid	8081A	280-59800
280-13997-8	J1FK58	T	Solid	8081A	280-59800
280-13997-9	J1FK59	T	Solid	8081A	280-59800
280-13997-10	J1FK60	T	Solid	8081A	280-59800
280-13997-11	J1FK61	T	Solid	8081A	280-59800
280-13997-12	J1FK62	T	Solid	8081A	280-59800
280-13997-13	J1FK63	T	Solid	8081A	280-59800
280-13997-14	J1FK64	T	Solid	8081A	280-59800
280-13997-15	J1FK65	T	Solid	8081A	280-59800
280-13997-15MS	Matrix Spike	T	Solid	8081A	280-59800
280-13997-15MSD	Matrix Spike Duplicate	T	Solid	8081A	280-59800

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-60207					
LCS 280-59839/2-A	Lab Control Sample	T	Solid	8082	280-59839
MB 280-59839/1-A	Method Blank	T	Solid	8082	280-59839
280-13997-1	J1FK51	T	Solid	8082	280-59839
280-13997-1MS	Matrix Spike	T	Solid	8082	280-59839
280-13997-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-59839
280-13997-2	J1FK52	T	Solid	8082	280-59839
280-13997-3	J1FK53	T	Solid	8082	280-59839
280-13997-4	J1FK54	T	Solid	8082	280-59839
280-13997-5	J1FK55	T	Solid	8082	280-59839
280-13997-6	J1FK56	T	Solid	8082	280-59839
280-13997-7	J1FK57	T	Solid	8082	280-59839
280-13997-8	J1FK58	T	Solid	8082	280-59839
280-13997-9	J1FK59	T	Solid	8082	280-59839
280-13997-10	J1FK60	T	Solid	8082	280-59839
280-13997-11	J1FK61	T	Solid	8082	280-59839
280-13997-12	J1FK62	T	Solid	8082	280-59839
280-13997-13	J1FK63	T	Solid	8082	280-59839
280-13997-14	J1FK64	T	Solid	8082	280-59839
280-13997-15	J1FK65	T	Solid	8082	280-59839
Analysis Batch:280-60404					
LCS 280-59814/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-59814
MB 280-59814/1-A	Method Blank	T	Solid	NWTPH-Dx	280-59814
280-13997-9	J1FK59	T	Solid	NWTPH-Dx	280-59814
280-13997-10	J1FK60	T	Solid	NWTPH-Dx	280-59814
280-13997-11	J1FK61	T	Solid	NWTPH-Dx	280-59814
280-13997-12	J1FK62	T	Solid	NWTPH-Dx	280-59814
280-13997-13	J1FK63	T	Solid	NWTPH-Dx	280-59814
280-13997-14	J1FK64	T	Solid	NWTPH-Dx	280-59814
280-13997-14MS	Matrix Spike	T	Solid	NWTPH-Dx	280-59814
280-13997-14MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-59814
Analysis Batch:280-60405					
LCSD 280-59814/19-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-59814
280-13997-1	J1FK51	T	Solid	NWTPH-Dx	280-59814
280-13997-2	J1FK52	T	Solid	NWTPH-Dx	280-59814
280-13997-3	J1FK53	T	Solid	NWTPH-Dx	280-59814
280-13997-4	J1FK54	T	Solid	NWTPH-Dx	280-59814
280-13997-5	J1FK55	T	Solid	NWTPH-Dx	280-59814
280-13997-6	J1FK56	T	Solid	NWTPH-Dx	280-59814
280-13997-7	J1FK57	T	Solid	NWTPH-Dx	280-59814
280-13997-8	J1FK58	T	Solid	NWTPH-Dx	280-59814
280-13997-15	J1FK65	T	Solid	NWTPH-Dx	280-59814

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

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

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-59827					
LCS 280-59827/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-59827/1-A	Method Blank	T	Solid	3050B	
280-13997-1	J1FK51	T	Solid	3050B	
280-13997-1DU	Duplicate	T	Solid	3050B	
280-13997-1MS	Matrix Spike	T	Solid	3050B	
280-13997-2	J1FK52	T	Solid	3050B	
280-13997-3	J1FK53	T	Solid	3050B	
280-13997-4	J1FK54	T	Solid	3050B	
280-13997-5	J1FK55	T	Solid	3050B	
280-13997-6	J1FK56	T	Solid	3050B	
280-13997-7	J1FK57	T	Solid	3050B	
280-13997-8	J1FK58	T	Solid	3050B	
280-13997-9	J1FK59	T	Solid	3050B	
280-13997-10	J1FK60	T	Solid	3050B	
280-13997-11	J1FK61	T	Solid	3050B	
280-13997-12	J1FK62	T	Solid	3050B	
280-13997-13	J1FK63	T	Solid	3050B	
280-13997-14	J1FK64	T	Solid	3050B	
280-13997-15	J1FK65	T	Solid	3050B	
Prep Batch: 280-59949					
LCS 280-59949/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-59949/1-A	Method Blank	T	Solid	7471A	
280-13997-1	J1FK51	T	Solid	7471A	
280-13997-2	J1FK52	T	Solid	7471A	
280-13997-3	J1FK53	T	Solid	7471A	
280-13997-4	J1FK54	T	Solid	7471A	
280-13997-5	J1FK55	T	Solid	7471A	
280-13997-6	J1FK56	T	Solid	7471A	
280-13997-7	J1FK57	T	Solid	7471A	
280-13997-8	J1FK58	T	Solid	7471A	
280-13997-9	J1FK59	T	Solid	7471A	
280-13997-10	J1FK60	T	Solid	7471A	
280-13997-10DU	Duplicate	T	Solid	7471A	
280-13997-10MS	Matrix Spike	T	Solid	7471A	
280-13997-11	J1FK61	T	Solid	7471A	
280-13997-12	J1FK62	T	Solid	7471A	
280-13997-13	J1FK63	T	Solid	7471A	
280-13997-14	J1FK64	T	Solid	7471A	
280-13997-15	J1FK65	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-60068					
LCS 280-59827/2-A	Lab Control Sample	T	Solid	6010B	280-59827
MB 280-59827/1-A	Method Blank	T	Solid	6010B	280-59827
280-13997-1	J1FK51	T	Solid	6010B	280-59827
280-13997-1DU	Duplicate	T	Solid	6010B	280-59827
280-13997-1MS	Matrix Spike	T	Solid	6010B	280-59827
280-13997-2	J1FK52	T	Solid	6010B	280-59827
280-13997-3	J1FK53	T	Solid	6010B	280-59827
280-13997-4	J1FK54	T	Solid	6010B	280-59827
280-13997-5	J1FK55	T	Solid	6010B	280-59827
280-13997-6	J1FK56	T	Solid	6010B	280-59827
280-13997-7	J1FK57	T	Solid	6010B	280-59827
280-13997-8	J1FK58	T	Solid	6010B	280-59827
280-13997-9	J1FK59	T	Solid	6010B	280-59827
280-13997-10	J1FK60	T	Solid	6010B	280-59827
280-13997-11	J1FK61	T	Solid	6010B	280-59827
280-13997-12	J1FK62	T	Solid	6010B	280-59827
280-13997-13	J1FK63	T	Solid	6010B	280-59827
280-13997-14	J1FK64	T	Solid	6010B	280-59827
280-13997-15	J1FK65	T	Solid	6010B	280-59827
Analysis Batch:280-60262					
280-13997-4	J1FK54	T	Solid	6010B	280-59827
280-13997-8	J1FK58	T	Solid	6010B	280-59827
Analysis Batch:280-60271					
LCS 280-59949/2-A	Lab Control Sample	T	Solid	7471A	280-59949
MB 280-59949/1-A	Method Blank	T	Solid	7471A	280-59949
280-13997-1	J1FK51	T	Solid	7471A	280-59949
280-13997-2	J1FK52	T	Solid	7471A	280-59949
280-13997-3	J1FK53	T	Solid	7471A	280-59949
280-13997-4	J1FK54	T	Solid	7471A	280-59949
280-13997-5	J1FK55	T	Solid	7471A	280-59949
280-13997-6	J1FK56	T	Solid	7471A	280-59949
280-13997-7	J1FK57	T	Solid	7471A	280-59949
280-13997-8	J1FK58	T	Solid	7471A	280-59949
280-13997-9	J1FK59	T	Solid	7471A	280-59949
280-13997-10	J1FK60	T	Solid	7471A	280-59949
280-13997-10DU	Duplicate	T	Solid	7471A	280-59949
280-13997-10MS	Matrix Spike	T	Solid	7471A	280-59949
280-13997-11	J1FK61	T	Solid	7471A	280-59949
280-13997-12	J1FK62	T	Solid	7471A	280-59949
280-13997-13	J1FK63	T	Solid	7471A	280-59949
280-13997-14	J1FK64	T	Solid	7471A	280-59949
280-13997-15	J1FK65	T	Solid	7471A	280-59949

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
General Chemistry					
Analysis Batch:280-59778					
280-13997-1	J1FK51	T	Solid	D-2216	
280-13997-1DU	Duplicate	T	Solid	D-2216	
280-13997-2	J1FK52	T	Solid	D-2216	
280-13997-3	J1FK53	T	Solid	D-2216	
280-13997-4	J1FK54	T	Solid	D-2216	
280-13997-5	J1FK55	T	Solid	D-2216	
280-13997-6	J1FK56	T	Solid	D-2216	
280-13997-7	J1FK57	T	Solid	D-2216	
280-13997-8	J1FK58	T	Solid	D-2216	
280-13997-9	J1FK59	T	Solid	D-2216	
280-13997-10	J1FK60	T	Solid	D-2216	
280-13997-11	J1FK61	T	Solid	D-2216	
280-13997-12	J1FK62	T	Solid	D-2216	
280-13997-13	J1FK63	T	Solid	D-2216	
280-13997-14	J1FK64	T	Solid	D-2216	
280-13997-15	J1FK65	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Method Blank - Batch: 280-59851

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-59851/1-A	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-59851	Lab File ID:	K9781.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	03/30/2011 1500	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	320
Acenaphthylene	17	U	17	320
Anthracene	17	U	17	320
Benzo[a]anthracene	19	U	19	320
Benzo[a]pyrene	19	U	19	320
Benzo[b]fluoranthene	26	U	26	320
Benzo[ghi]perylene	16	U	16	320
Benzo[k]fluoranthene	39	U	39	320
Bis(2-chloroethoxy)methane	22	U	22	320
Bis(2-chloroethyl)ether	16	U	16	320
bis (2-chloroisopropyl) ether	22	U	22	320
Bis(2-ethylhexyl) phthalate	45	U	45	320
4-Bromophenyl phenyl ether	19	U	19	320
Butyl benzyl phthalate	42	U	42	320
Carbazole	35	U	35	320
4-Chloroaniline	80	U	80	320
4-Chloro-3-methylphenol	64	U	64	320
2-Chloronaphthalene	9.7	U	9.7	320
2-Chlorophenol	20	U	20	320
4-Chlorophenyl phenyl ether	20	U	20	320
Chrysene	26	U	26	320
Dibenz(a,h)anthracene	19	U	19	320
Dibenzofuran	19	U	19	320
1,2-Dichlorobenzene	21	U	21	320
1,3-Dichlorobenzene	12	U	12	320
1,4-Dichlorobenzene	13	U	13	320
3,3'-Dichlorobenzidine	88	U	88	640
2,4-Dichlorophenol	9.7	U	9.7	320
Diethyl phthalate	25	U	25	320
2,4-Dimethylphenol	64	U	64	320
Dimethyl phthalate	22	U	22	320
Di-n-butyl phthalate	28	U	28	320
4,6-Dinitro-2-methylphenol	320	U	320	640
2,4-Dinitrophenol	320	U	320	800
2,4-Dinitrotoluene	64	U	64	320
2,6-Dinitrotoluene	27	U	27	320
Di-n-octyl phthalate	14	U	14	320
Fluoranthene	35	U	35	320
Fluorene	18	U	18	320
Hexachlorobenzene	28	U	28	320
Hexachlorobutadiene	9.7	U	9.7	320
Hexachlorocyclopentadiene	49	U	49	320
Hexachloroethane	21	U	21	320
Indeno[1,2,3-cd]pyrene	21	U	21	320
Isophorone	17	U	17	320

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Method Blank - Batch: 280-59851

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-59851/1-A	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-59851	Lab File ID:	K9781.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	03/30/2011 1500	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	19	U	19	320
2-Methylphenol	13	U	13	320
3 & 4 Methylphenol	32	U	32	320
Naphthalene	30	U	30	320
2-Nitroaniline	49	U	49	320
3-Nitroaniline	71	U	71	320
4-Nitroaniline	71	U	71	320
Nitrobenzene	21	U	21	320
2-Nitrophenol	9.7	U	9.7	320
4-Nitrophenol	94	U	94	640
N-Nitrosodi-n-propylamine	30	U	30	320
N-Nitrosodiphenylamine	20	U	20	320
Pentachlorophenol	320	U	320	640
Phenanthrene	17	U	17	320
Phenol	18	U	18	320
Pyrene	12	U	12	320
1,2,4-Trichlorobenzene	27	U	27	320
2,4,5-Trichlorophenol	9.7	U	9.7	320
2,4,6-Trichlorophenol	9.7	U	9.7	320

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	70	50 - 120
2-Fluorophenol	70	53 - 120
Nitrobenzene-d5	72	50 - 120
Phenol-d5	73	52 - 120
Terphenyl-d14	78	55 - 120
2,4,6-Tribromophenol	73	51 - 120

Method Blank TICs- Batch: 280-59851

Cas Number	Analyte	RT	Est. Result	Qual
2213-23-2	Heptane, 2,4-dimethyl-	2.87	227	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.98	274	N J
	Unknown	2.82	146	N J
	Unknown	3.07	3600	N J
	Unknown	1.69	4440	N J

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Lab Control Sample - Batch: 280-59851

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-59851/2-A	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-59851	Lab File ID:	K9782.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	03/30/2011 1521	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2610	1940	75	52 - 120	
Anthracene	2610	2060	79	57 - 120	
Carbazole	2610	2040	78	54 - 120	
4-Chloro-3-methylphenol	2610	2090	80	57 - 120	
2-Chlorophenol	2610	1980	76	53 - 120	
1,4-Dichlorobenzene	2610	1830	70	46 - 120	
2,4-Dinitrotoluene	2610	2180	84	53 - 120	
2-Methylnaphthalene	2610	1880	72	55 - 120	
2-Methylphenol	2610	1960	75	51 - 120	
4-Nitrophenol	2610	2130	82	41 - 120	
N-Nitrosodi-n-propylamine	2610	1980	76	51 - 120	
Pentachlorophenol	2610	2070	79	30 - 120	
Phenol	2610	1990	76	54 - 120	
Pyrene	2610	2160	83	50 - 120	
1,2,4-Trichlorobenzene	2610	1830	70	50 - 120	
2,4,6-Trichlorophenol	2610	2130	82	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	75	50 - 120
2-Fluorophenol	73	53 - 120
Nitrobenzene-d5	74	50 - 120
Phenol-d5	76	52 - 120
Terphenyl-d14	83	55 - 120
2,4,6-Tribromophenol	84	51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59851

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-13997-6	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-59851	Lab File ID:	K9794.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	03/30/2011 1926			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-13997-6	Analysis Batch:	280-60075	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-59851	Lab File ID:	K9795.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	03/30/2011 1947			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 1827			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	75	77	52 - 120	3	30		
Anthracene	80	86	57 - 120	9	30		
Carbazole	80	86	54 - 120	9	30		
4-Chloro-3-methylphenol	82	83	57 - 120	2	30		
2-Chlorophenol	74	75	53 - 120	2	30		
1,4-Dichlorobenzene	67	67	46 - 120	1	30		
2,4-Dinitrotoluene	86	92	53 - 120	8	30		
2-Methylnaphthalene	72	71	55 - 120	1	30		
2-Methylphenol	74	75	51 - 120	2	30		
4-Nitrophenol	83	90	41 - 120	9	30		
N-Nitrosodi-n-propylamine	75	76	51 - 120	1	30		
Pentachlorophenol	82	86	30 - 120	6	30		
Phenol	75	75	54 - 120	2	30		
Pyrene	86	90	50 - 120	6	38		
1,2,4-Trichlorobenzene	67	68	50 - 120	2	30		
2,4,6-Trichlorophenol	85	85	50 - 120	2	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	73	74	50 - 120
2-Fluorophenol	71	72	53 - 120
Nitrobenzene-d5	72	72	50 - 120
Phenol-d5	75	75	52 - 120
Terphenyl-d14	86	89	55 - 120
2,4,6-Tribromophenol	85	89	51 - 120

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Method Blank - Batch: 280-59800

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-59800/1-A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59800	Lab File ID:	028F2801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	03/30/2011 2149	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1350			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.55	U	0.55	1.7
4,4'-DDE	0.24	U	0.24	1.7
4,4'-DDT	0.59	U	0.59	1.7
Aldrin	0.25	U	0.25	1.7
alpha-BHC	0.21	U	0.21	1.7
beta-BHC	0.66	U	0.66	1.7
delta-BHC	0.40	U	0.40	1.7
gamma-BHC (Lindane)	0.46	U	0.46	1.7
Heptachlor	0.21	U	0.21	1.7
Heptachlor epoxide	0.43	U	0.43	1.7
Endosulfan I	0.18	U	0.18	1.7
Endosulfan II	0.29	U	0.29	1.7
Endosulfan sulfate	0.28	U	0.28	1.7
Endrin	0.31	U	0.31	1.7
Endrin aldehyde	0.17	U	0.17	1.7
Endrin ketone	0.49	U	0.49	1.7
gamma-Chlordane	0.27	U	0.27	1.7
Methoxychlor	0.45	U	0.45	3.3
alpha-Chlordane	0.32	U	0.32	1.7
Dieldrin	0.21	U	0.21	1.7
Toxaphene	16	U	16	170

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	88	59 - 115
Decachlorobiphenyl	97	63 - 124

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Lab Control Sample - Batch: 280-59800

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-59800/2-A	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59800	Lab File ID:	007F0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	03/30/2011 1545	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1350			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.7	16.0	96	57 - 118	
4,4'-DDE	16.7	15.6	94	61 - 115	
4,4'-DDT	16.7	15.7	94	53 - 125	
Aldrin	16.7	15.6	94	60 - 115	
alpha-BHC	16.7	15.8	95	54 - 115	
beta-BHC	16.7	15.5	93	58 - 115	
delta-BHC	16.7	15.7	94	62 - 115	
gamma-BHC (Lindane)	16.7	15.4	93	59 - 115	
Heptachlor	16.7	15.5	93	61 - 115	
Heptachlor epoxide	16.7	15.8	95	62 - 112	
Endosulfan I	16.7	15.7	94	55 - 115	
Endosulfan II	16.7	16.1	97	60 - 115	
Endosulfan sulfate	16.7	15.6	94	58 - 118	
Endrin	16.7	17.9	108	61 - 121	
Endrin aldehyde	16.7	14.1	85	54 - 115	
Endrin ketone	16.7	14.9	90	61 - 118	
gamma-Chlordane	16.7	16.5	99	60 - 115	
Methoxychlor	16.7	16.0	96	52 - 123	
alpha-Chlordane	16.7	15.6	94	60 - 115	
Dieldrin	16.7	16.1	97	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	88	59 - 115
Decachlorobiphenyl	96	63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59800

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-13997-15	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59800	Lab File ID:	026F2601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/30/2011 2114			Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1350			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-13997-15	Analysis Batch:	280-60146	Instrument ID:	GCS_C
Client Matrix:	Solid	Prep Batch:	280-59800	Lab File ID:	027F2701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	03/30/2011 2131			Final Weight/Volume:	10000 uL
Prep Date:	03/29/2011 1350			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	95	96	57 - 118	0	20		
4,4'-DDE	93	94	61 - 115	0	15		
4,4'-DDT	90	94	53 - 125	4	29		
Aldrin	93	94	60 - 115	0	50		
alpha-BHC	95	95	54 - 115	0	17		
beta-BHC	92	93	58 - 115	0	17		
delta-BHC	93	95	62 - 115	0	19		
gamma-BHC (Lindane)	92	93	59 - 115	0	24		
Heptachlor	92	94	61 - 115	1	18		
Heptachlor epoxide	95	96	62 - 112	0	18		
Endosulfan I	94	94	55 - 115	1	26		
Endosulfan II	95	97	60 - 115	1	20		
Endosulfan sulfate	90	94	58 - 118	4	22		
Endrin	107	109	61 - 121	1	30		
Endrin aldehyde	83	66	54 - 115	24	29		
Endrin ketone	88	89	61 - 118	0	20		
gamma-Chlordane	97	98	60 - 115	0	21		
Methoxychlor	89	94	52 - 123	5	23		
alpha-Chlordane	93	94	60 - 115	0	18		
Dieldrin	96	97	63 - 117	0	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	91	91	59 - 115
Decachlorobiphenyl	94	99	63 - 124

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Method Blank - Batch: 280-59839

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-59839/1-A	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59839	Lab File ID:	070F7001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	03/31/2011 0201	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1556			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

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

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	94	59 - 130
Tetrachloro-m-xylene	97	53 - 128

Lab Control Sample - Batch: 280-59839

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-59839/2-A	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59839	Lab File ID:	071F7101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	03/31/2011 0223	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1556			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	31.8	32.8	103	54 - 132	
Aroclor 1260	31.8	33.9	106	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	95	59 - 130
Tetrachloro-m-xylene	98	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59839

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-13997-1	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59839	Lab File ID:	073F7301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	03/31/2011 0305			Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1556			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-13997-1	Analysis Batch:	280-60207	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-59839	Lab File ID:	074F7401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.7 g
Analysis Date:	03/31/2011 0327			Final Weight/Volume:	5000 uL
Prep Date:	03/29/2011 1556			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	116	100	54 - 132	15	26		
Aroclor 1260	103	101	62 - 129	2	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	92	89	59 - 130
Tetrachloro-m-xylene	101	95	53 - 128

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Method Blank - Batch: 280-59814

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-59814/1-A	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59814	Lab File ID:	077B3001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	03/31/2011 0503	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	960	U	960	3800
C10-C28	650	U	650	3800

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	75	49 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-59814

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-59814/2-A	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59814	Lab File ID:	078B3101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.0 g
Analysis Date:	03/31/2011 0535	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-59814/19-A	Analysis Batch:	280-60405	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59814	Lab File ID:	060B1301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	03/31/2011 2121	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	94	92	57 - 115	5	23		
C10-C28	94	92	53 - 115	5	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	81	82	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-59814

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-13997-14	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59814	Lab File ID:	080B3301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	03/31/2011 0641			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-13997-14	Analysis Batch:	280-60404	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-59814	Lab File ID:	081B3401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 0714			Final Weight/Volume:	1000 uL
Prep Date:	03/29/2011 2035			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	89	85	57 - 115	3	23		
C10-C28	89	85	56 - 115	3	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	79	75	49 - 115

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Method Blank - Batch: 280-59827

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-59827/1-A	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/30/2011 1731	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.0650	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	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.428	B	0.40	1.0

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Lab Control Sample - Batch: 280-59827

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-59827/2-A	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	03/30/2011 1733	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	186.5	93	82 - 116	
Antimony	50.0	47.18	94	82 - 110	
Arsenic	100	93.34	93	85 - 110	
Barium	200	201.1	101	87 - 112	
Beryllium	5.00	4.82	96	84 - 114	
Boron	100	94.04	94	81 - 110	
Cadmium	10.0	10.22	102	87 - 110	
Calcium	5000	4861	97	82 - 114	
Chromium	20.0	20.15	101	84 - 114	
Cobalt	50.0	48.72	97	87 - 110	
Copper	25.0	24.22	97	88 - 110	
Iron	100	97.91	98	87 - 120	
Lead	50.0	46.29	93	86 - 110	
Magnesium	5000	4810	96	90 - 110	
Manganese	50.0	50.24	100	88 - 110	
Molybdenum	100	100.5	100	86 - 110	
Nickel	50.0	48.94	98	87 - 110	
Potassium	5000	5041	101	89 - 110	
Selenium	200	194.9	97	83 - 110	
Silicon	1000	292.3	29	10 - 70	
Silver	5.00	5.24	105	87 - 114	
Sodium	5000	5074	101	90 - 112	
Vanadium	50.0	51.26	103	88 - 110	
Zinc	50.0	47.99	96	76 - 114	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Matrix Spike - Batch: 280-59827

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13997-1	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.15 g
Analysis Date:	03/30/2011 1742	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	5250		187	6890	876	50 - 200	4
Antimony	0.43	B	46.7	27.33	58	20 - 200	
Arsenic	2.3		93.4	74.68	78	76 - 111	
Barium	51.8		187	211.6	86	52 - 159	
Beryllium	0.032	U	4.67	3.76	81	72 - 105	
Boron	0.94	U	93.4	72.60	78	75 - 107	
Cadmium	0.049	B	9.34	8.21	87	40 - 130	
Calcium	6500		4670	11780	113	43 - 165	
Chromium	4.8		18.7	20.74	86	70 - 200	
Cobalt	9.2		46.7	46.57	80	72 - 106	
Copper	16.3		23.3	34.81	79	37 - 187	
Iron	22200		93.4	20030	-2294	70 - 200	4
Lead	9.0		46.7	43.12	73	70 - 200	
Magnesium	3910		4670	7934	86	64 - 145	
Manganese	285		46.7	316.6	67	40 - 200	4
Molybdenum	0.25	U	93.4	78.02	84	75 - 103	
Nickel	7.5		46.7	45.20	81	61 - 126	
Potassium	1260		4670	5376	88	56 - 172	
Selenium	0.82	U	187	152.7	82	76 - 104	
Silicon	339		934	498.1	17	20 - 200	N
Silver	0.15	U	4.67	4.26	91	75 - 141	
Sodium	298		4670	4721	95	78 - 111	
Vanadium	57.1		46.7	97.64	87	50 - 169	
Zinc	41.0		46.7	74.74	72	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Duplicate - Batch: 280-59827

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-13997-1	Analysis Batch:	280-60068	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-59827	Lab File ID:	25A2033011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.18 g
Analysis Date:	03/30/2011 1740	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	03/30/2011 0900				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	5250		5668	8	40	
Antimony	0.43	B	0.35	NC	40	U
Arsenic	2.3		2.42	7	30	
Barium	51.8		54.86	6	30	
Beryllium	0.032	U	0.030	NC	30	U
Boron	0.94	U	0.89	NC	30	U
Cadmium	0.049	B	0.0628	25	30	B
Calcium	6500		7105	9	30	
Chromium	4.8		5.18	8	40	
Cobalt	9.2		9.40	2	30	
Copper	16.3		16.21	0.6	30	
Iron	22200		22800	3	40	
Lead	9.0		7.08	24	40	
Magnesium	3910		4415	12	30	
Manganese	285		300.0	5	40	
Molybdenum	0.25	U	0.24	NC	30	U
Nickel	7.5		7.90	5	30	
Potassium	1260		1346	7	40	
Selenium	0.82	U	0.78	NC	30	U
Silicon	339		323.0	5	40	
Silver	0.15	U	0.15	NC	30	U
Sodium	298		336.5	12	30	
Vanadium	57.1		53.24	7	30	
Zinc	41.0		41.09	0.3	40	

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Method Blank - Batch: 280-59949

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-59949/1-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 1832	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-59949

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-59949/2-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 1835	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.442	106	87 - 111	

Matrix Spike - Batch: 280-59949

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13997-10	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.69 g
Analysis Date:	03/31/2011 1909	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0055	U	0.385	0.395	103	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Duplicate - Batch: 280-59949

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-13997-10	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-59949	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.69 g
Analysis Date:	03/31/2011 1906	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0055	U	0.0051	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-13997-1
Sdg Number: JP0143

Duplicate - Batch: 280-59778

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-13997-1	Analysis Batch:	280-59778	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2011 1151	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.9	6.8	1	20	

2-8
3-7
2-7

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-075-231	Page 1 of 3

Collector J Kuepfer	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code ~~8L~~ 8B	Data Turnaround ~~21 Days~~ 7
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 600-30 Area 2 Verification		SAF No. RC-075		
Ice Chest No. ERC-02-103	Field Logbook No. EL-1607-09	COA R600302000	Method of Shipment Fed Ex		
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 8206 6099		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	aG	aG	aG				
No. of Container(s)	1	1	1	1	1	1				
Volume	60mL	60mL	120mL	125mL	120mL	125mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081				

Sample No.	Matrix *	Sample Date	Sample Time										
J1FK51	SOIL	3/25/11	0955	✓		✓	✓	✓	✓				1
J1FK52	SOIL	3/25/11	1000	✓		✓	✓	✓	✓				2
J1FK53	SOIL	3/25/11	1005	✓		✓	✓	✓	✓				3
J1FK54	SOIL	3/25/11	1010	✓		✓	✓	✓	✓				4
J1FK55	SOIL	3/25/11	0935	✓		✓	✓	✓	✓				5

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: J Kuepfer	3/25/11 1415	Received By/Stored In: D Woolery	3/25/11 1415
Relinquished By/Removed From: D Woolery	3-28-11 1000	Received By/Stored In: A. Freier	3-28-11 1000
Relinquished By/Removed From: WCH A. Freier	3-28-11 1100	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In	3/29/11 0830
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) {Mercury}

REVIEWED BY JEB
DATE 3-28-11

JP0143

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-075-231	Page 2 of 3

Collector J Kuepfer	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code ~~8L~~ 8B	Data Turnaround ~~21~~ 7 Days
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 600-30 Area 2 Verification		SAF No. RC-075		
Ice Chest No. ERC -02-103	Field Logbook No. EL-1607-09	COA R600302000	Method of Shipment Fed Ex		
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 8206 6099		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G/P	G	aG	aG	aG					
No. of Container(s)	1	1	1	1	1	1					
Volume	60mL	60mL	120mL	125mL	120mL	125mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081					

Sample No.	Matrix *	Sample Date	Sample Time										
J1FK56	SOIL	3/25/11	0930	✓		✓	✓	✓	✓				6
J1FK57	SOIL	3/25/11	0925	✓		✓	✓	✓	✓				7
J1FK58	SOIL	3/25/11	0920	✓		✓	✓	✓	✓				8
J1FK59	SOIL	3/25/11	0855	✓		✓	✓	✓	✓				9
J1FK60	SOIL	3/25/11	0850	✓		✓	✓	✓	✓				10

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: J Kuepfer	3/25/11 1415	Received By/Stored In: DWOOLERY	3/25/11 1415
Relinquished By/Removed From: DWOOLERY	3-28-11 1000	Received By/Stored In: A. Freier	3-28-11 1000
Relinquished By/Removed From: A. Freier (WCH)	3-28-11 1100	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In:	3/29/11 0800
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) {Mercury}

REVIEWED BY JEB
DATE 3-28-11

JP0143

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-075-231	Page 3 of 3

Collector: J Kuepfer	Company Contact: D Woolery	Telephone No.: 509-431-0448	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location: 600-30 Area 2 Verification		SAF No.: RC-075
Ice Chest No.: ERC-02-103	Field Logbook No.: EL-1607-09	COA: R600302000	Method of Shipment: Fed Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7945 8206 6099

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	aG	aG	aG				
No. of Container(s)	1	1	1	1	1	1				
Volume	60mL	60mL	120mL	125mL	120mL	125mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D+	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081				

Sample No.	Matrix *	Sample Date	Sample Time										
J1FK61	SOIL		0845	✓		✓	✓	✓	✓				11
J1FK62	SOIL		0840	✓		✓	✓	✓	✓				12
J1FK63	SOIL		0925	✓		✓	✓	✓	✓				D

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3/25/11 1415	D Woolery	3/25/11 1415
D Woolery	3-28-11 1000	A. Freier	3-28-11 1000
A. Freier (WCH)	3-28-11 1100	Fed Ex	
			3/29/11 0830

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

REVIEWED BY JEB DATE 3-28-11

JP0143

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-075-232	Page 1 of 1

Collector J Kuepfer	Company Contact D Woolery	Telephone No. 509-431-0448	Project Coordinator KESSNER, JH	Price Code ~~8L~~ 8B JRD 3/14/11	Data Turnaround ~~21 Days~~ 7 JRD 3/14/11
Project Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Full Prot	Sampling Location 600-30 Focused Samples Verification		SAF No. RC-075		
Ice Chest No. ERC-02-103	Field Logbook No. EL-1607-09	COA R600302000	Method of Shipment Fed Ex		
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver JRD 3/14/11	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 8206 6099		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G/P	G	aG	aG	aG					
No. of Container(s)	1	1	1	1	1	1					
Volume	60mL	60mL	120mL	125mL	120mL	125mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196 - JRD 3/14/11	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081					
Sample No. / Matrix * / Sample Date / Sample Time											
J1FK64 / SOIL / 3/25/11 / 1030	✓		✓	✓	✓	✓					FS-1
J1FK65 / SOIL / 3/25/11 / 1035	✓		✓	✓	✓	✓					FS-2

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3/25/11 1415	D Woolery	3/25/11 1415
D Woolery	3-28-11 1000	A. Freier	3-28-11 1000
A. Freier (WCH)	3-28-11 1100	Fed Ex	
			3/29/11 0830

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

REVIEWED BY JEB
DATE 3-28-11

JP0143

Matrix *

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 – 6010TE Solid

Analytical Due:

Report Due: 4/5/11 (Rush 5 day TAT)

Sample Check-in List

Date/Time Received: 3/29/30 830 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: JP0143 NA[ ] SAF #: RC-075 NA [ ]

Job Number: 13997 Chain of Custody # RC-075-231

Shipping Container ID: ERC-02-103 ERC-99-055 WCH-11-037 Air Bill # 7945 8206 6099 7945 8206 6114 7945 8206 6342

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 2-8, 3-7, 2-7 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 15
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added ___
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [✓] ~~No [✓]~~ 3/29/11
13. Description of anomalies (include sample numbers): Sample date not on COC for samples JIFK61, JIFK62, JIFK63 Sample date logged per sample container labels (3/25/11)

Sample Custodian: [signature] Date: 3/29/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[X] No action necessary; process as is.

Project Manager [signature] Date 3/29/11

LS-023, Rev. 7, 1/08

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

RICHLAND, WA 99354

FedEx. Express

J111511022502 25

Ship Date: 28MAR11
ActWgt: 72.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

1 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

TRK# 0201 7945 8206 6099

MASTER

XH WHHA

80002
CO-US
DEN

50DG3/28A8/7EFB

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J111511022500225

Ship Date: 28MAR11
ActWgt: 29.0 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 #

2 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

MPS# 7945 8206 6114
0263
Mstr# 7945 8206 6099 0201

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

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

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 28MAR11
ActWgt: 87.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

3 of 3

TUE - 29 MAR A1
PRIORITY OVERNIGHT

MPS# 7945 8206 6342
0263
Mstr# 7945 8206 6099 0201

XH WHHA

80002
CO-US
DEN

5CDG3/26A8/7EFB

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