0097196

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

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 6/6/11
NITIAL/DATE

COMMENTS:

SDG JP0188 SAF-RC-107

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 128-H-1 Reverification Sampling

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JUN 22 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

RECEIVED
JUN 2011

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 37 *Pages*

Report No.: 46819

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.
JP0188	RC-107	J1JCV2	J1E260465-1	MJTF01AA	9MJTF010	1147165
		J1JCV3	J1E260465-2	MJTF61AA	9MJTF610	1147165
		J1JCV4	J1E260465-3	MJTF71AA	9MJTF710	1147165
		J1JCV5	J1E260465-4	MJTF91AA	9MJTF910	1147165
		J1JCV6	J1E260465-5	MJTGC1AA	9MJTGC10	1147165
		J1JCV7	J1E260465-6	MJTGD1AA	9MJTGD10	1147165
		J1JCV8	J1E260465-7	MJTGE1AA	9MJTGE10	1147165
		J1JCV9	J1E260465-8	MJTGF1AA	9MJTGF10	1147165
		J1JCW0	J1E260465-9	MJTGG1AA	9MJTGG10	1147165
		J1JCW1	J1E260465-10	MJTGH1AA	9MJTGH10	1147165
	RC-107	J1JCW2	J1E260465-11	MJTGJ1AA	9MJTGJ10	1147165
		J1JCW3	J1E260465-12	MJTGL1AA	9MJTGL10	1147165
		J1JCW4	J1E260465-13	MJTGM1AA	9MJTGM10	1147165

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

June 1, 2011

Attention: Joan Kessner

SAF Number	:	RC-107
Date SDG Closed	:	May 26, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	JP0188
Data Deliverable	:	7 Day Summary

CASE NARRATIVE

I. Introduction

On May 26, 2011 thirteen soil samples were received at TestAmerica for chemistry 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
J1JCV2	MJTF0	SOIL	05/26/11
J1JCV3	MJTF6	SOIL	05/26/11
J1JCV4	MJTF7	SOIL	05/26/11
J1JCV5	MJTF9	SOIL	05/26/11
J1JCV6	MJTGC	SOIL	05/26/11
J1JCV7	MJTGD	SOIL	05/26/11
J1JCV8	MJTGE	SOIL	05/26/11
J1JCV9	MJTGF	SOIL	05/26/11
J1JCW0	MJTGG	SOIL	05/26/11
J1JCW1	MJTGH	SOIL	05/26/11
J1JCW2	MJTGJ	SOIL	05/26/11
J1JCW3	MJTGL	SOIL	05/26/11
J1JCW4	MJTGM	SOIL	05/26/11

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

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 matrix spike recovered low at 71.8%. The post digestive matrix spike recovered at 98.6% and the insoluble matrix spike recovered at 102.2%. This implies strong reducing capacity in the sample, but not enough to exhaust the more copious insoluble matrix spike. Except as noted, the LCS, batch blank, sample, sample duplicate (J1JCV2) and sample matrix spike (J1JCV2) 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:

for Whitney Litaii
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-Jun-11

Report No. : 46819

SDG No: JP0188

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1147165	7196_CR6								
	J1JCV2								
	MJTF01AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	MJTF01AD	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	3.50E-01	0.6
	J1JCV3								
	MJTF61AA	HEXCHROME	2.65E-01 +- 0.0E+00		mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCV4								
	MJTF71AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCV5								
	MJTF91AA	HEXCHROME	2.23E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1JCV6								
	MJTGC1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1JCV7								
	MJTGD1AA	HEXCHROME	2.21E-01 +- 0.0E+00		mg/kg	N/A	1.55E-01	1.55E-01	
	J1JCV8								
	MJTGE1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCV9								
	MJTGF1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCW0								
	MJTGG1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCW1								
	MJTGH1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCW2								
	MJTGJ1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1JCW3								
	MJTGL1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1JCW4								
	MJTGM1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	

No. of Results: 14

TestAmerica

rptSTLRchSaSummary2 V5.2.14 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-Jun-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46819

SDG No.: JP0188

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1147165 MATRIX SPIKE, J1JCV2								
MJTF01AC	HEXCHROME	7.45E+00 +- 0.0E+00		mg/kg	N/A	72%	-0.3	1.55E-01
1147165 LCS,								
MJVTV1AA	HEXCHROME	1.90E+01 +- 0.0E+00		mg/kg	N/A	95%	0.0	1.55E-01
1147165 BLANK QC,								
MJVTV1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 3

TestAmerica

rptSTLRchQcSummary V5.2.14
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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 7:45:00 AM
Lot-Sample No.:	J1E260465-1	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV2	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTF01AA			**Report DB ID:** 9MJTF010					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 7:55:00 AM
Lot-Sample No.:	J1E260465-2	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV3	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTF61AA			**Report DB ID:** 9MJTF610					
HEXCHROME	***2.65E-01***			0.0E+00	1.54E-01	mg/kg	N/A	*(1.7)*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 8:00:00 AM
Lot-Sample No.:	J1E260465-3	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV4	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTF71AA			**Report DB ID:** 9MJTF710					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 8:05:00 AM
Lot-Sample No.:	J1E260465-4	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV5	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTF91AA			**Report DB ID:** 9MJTF910					
HEXCHROME	***2.23E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(1.4)*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
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V5.2.14 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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 8:10:00 AM
Lot-Sample No.:	J1E260465-5	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV6	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTGC1AA			**Report DB ID:** 9MJTGC10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/31/11 08:30 a		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-Jun-11

Lab Name:	TestAmerica	SDG:	JP0188	Collection Date:	5/26/2011 8:15:00 AM
Lot-Sample No.:	J1E260465-6	Report No. :	46819	Received Date:	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV7	COC No. :	RC-107-073	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: 1147165	7196_CR6			Work Order:	MJTGD1AA		Report DB ID:	9MJTGD10				
HEXCHROME	***2.21E-01***			0.0E+00	1.55E-01	mg/kg	N/A	*(1.4)*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica Laboratories, Inc.

13

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

Lab Name:	**TestAmerica**	**SDG:**	JP0188	**Collection Date:**	5/26/2011 8:20:00 AM
Lot-Sample No.:	**J1E260465-7**	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	**J1JCV8**	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTGE1AA			**Report DB ID:** 9MJTGE10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		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-Jun-11

Lab Name:	TestAmerica	SDG:	JP0188	Collection Date:	5/26/2011 8:35:00 AM
Lot-Sample No.:	J1E260465-8	Report No. :	46819	Received Date:	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV9	COC No. :	RC-107-073	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: 1147165	7196_CR6			Work Order: MJTGF1AA			Report DB ID: 9MJTGF10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

Lab Name:	TestAmerica	SDG:	JP0188	Collection Date:	5/26/2011 8:40:00 AM
Lot-Sample No.:	J1E260465-9	Report No. :	46819	Received Date:	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCW0	COC No. :	RC-107-073	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: 1147165	7196_CR6			Work Order: MJTGG1AA			Report DB ID: 9MJTGG10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 8:50:00 AM
Lot-Sample No.:	J1E260465-10	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCW1	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTGH1AA			**Report DB ID:** 9MJTGH10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

Lab Name:	TestAmerica	SDG:	JP0188	Collection Date:	5/26/2011 8:55:00 AM
Lot-Sample No.:	J1E260465-11	Report No. :	46819	Received Date:	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCW2	COC No. :	RC-107-073	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: 1147165	7196_CR6			Work Order: MJTGJ1AA			Report DB ID: 9MJTGJ10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 9:00:00 AM
Lot-Sample No.:	J1E260465-12	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCW3	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTGL1AA			**Report DB ID:** 9MJTGL10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 7:55:00 AM
Lot-Sample No.:	J1E260465-13	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCW4	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTGM1AA			**Report DB ID:** 9MJTGM10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/31/11 08:30 a		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 7:55:00 AM
Lot-Sample No.:	J1E260465-13	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCW4	**COC No. :**	RC-107-073	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

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

TestAmerica
rptSTLRchSample
V5.2.14 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-Jun-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0188	**Collection Date:**	5/26/2011 7:45:00 AM
Lot-Sample No.:	J1E260465-1	**Report No. :**	46819	**Received Date:**	5/26/2011 1:45:00 PM
Client Sample ID:	J1JCV2	**COC No. :**	RC-107-073	**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: 1147165	7196_CR6			**Work Order:** MJTF01AD		**Report DB ID:** MJTF01ER			**Orig Sa DB ID:** 9MJTF010			
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	5/31/11 08:30 a		2.5	
	1.54E-01	U	**RPD** 0.6			3.50E-01		N/A			g	

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

TestAmerica
rptSTLRchDupV5.2 .14 A2002

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

FORM II

BLANK RESULTS

Date: 01-Jun-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0188

Report No. : 46819

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: 1147165	7196_CR6			**Work Order:**	MJVTV1AA		**Report DB ID:**	MJVTV1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	5/31/11 08:30 a		2.5	
						1.55E-01		N/A			g	

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

TestAmerica Laboratories, Inc.

TestAmerica
rptSTLRchBlank
V5.2.14 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-Jun-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0188

Report No. : 46819

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: 1147165	7196_CR6			Work Order:	MJVTV1AA		Report DB ID:	MJVTV1AS					
HEXCHROME	1.90E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		95%	5/31/11 08:30 a	2.5	
							Rec Limits:	85	115	0.0		g	

No. of Results: 1 Comments:

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

rptSTLRchLcs
V5.2.14 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 01-Jun-11

Lab Name: TestAmerica **SDG:** JP0188

Lot-Sample No.: J1E260465-1, J1JCV2 **Report No. :** 46819 **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: 1147165	**Work Order:** MJTF01AC			**Report DB ID:** MJTF01CW			**Orig Sa DB ID:** 9MJTF010					
HEXCHROME	7.45E+00			0.0E+00	1.55E-01	mg/kg	N/A	71.80%	1.04E+01	5/31/11 08:30 a	2.5	7196_CR6
	1.54E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.14 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): 1147165

Lab Sample Numbers or SDG: **JP0188**

Method/Test/Parameter: **Cr+6 in SOLID / RL-WC-004**

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

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

Comments on any "No" response: The MS recovered low at 71.8%. The insoluble MS recovered within limits at 102.2%. PDMS recovered at 98.6%.

Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MS.

Analyst: _____ Date: 6/01/2011

Second-Level Review: _____ Date: 6/01/2011

8

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-18466**
NCM Initiated By: Hooshang Rahavi
Date Opened: 06/01/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1E260465 (1,10,11,12,13,2,3,4,5,6,7,8,9),
QC Batches: 1147165,

Nonconformance: QC data exceeded criteria
Subcategory: MS/MSD accuracy and/or precision out of control

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	06/01/2011	

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	06/01/2011	The MS recovered low at 71.8%. The insoluble MS recovered within limits at 102.2%. PDMS recovered at 98.6%. Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MS.

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

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page ~~2 of 6~~ 1 of 4
Collector K. Lucas	**Company Contact** Joan Kessner **Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** ~~8L~~ 8B **Data Turnaround** ~~21~~ 7 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	**Sampling Location** 128 H-1 Reverification sampling	**SAF No.** RC-107	
Ice Chest No. NA	**Field Logbook No.** EL 1627-05 **COA** 0128H12000	**Method of Shipment** Government Vehicle/FedEx	
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** NA	**Bill of Lading/Air Bill No.** NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
None

Lot#JIE260465

Special Handling and/or Storage
Cool to 4 deg C

SDG#JP0188
Due 6-2-11

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1JCT9~~	~~SOIL~~											
~~J1JCV0~~	~~SOIL~~											
~~J1JCV1~~	~~SOIL~~											
J1JCV2 MJTF0	SOIL	5/26/11	0745		X							
J1JCV3 MJTF6	SOIL	5/26/11	0755		X							

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	5-26-11 1000	JV Fullmer	1000 5/26/11
JV Fullmer	1200 5-26-11	A. Freier	1200 5-26-11
A. Freier	WCH 1345 5-26-11	Lucas/Velazquez	1345 5/26/11

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY DATE 5/26/11

JP0188

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page ~~4 of 6~~ 2 of 4
Collector: K. Lucas	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8Z; Data Turnaround: ~~21~~ 7 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 128 H-1 Reverification sampling	SAF No.: RC-107	
Ice Chest No.: NA	Field Logbook No.: EL 1627-05; COA: 0128H12000	Method of Shipment: Government Vehicle/FedEx	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Lot# JIE260465
SDG# JP0188
Due 6.2.11

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1JCV4 MJTF7	SOIL	5/26/11	0800		X							
J1JCV5 MJTF9	SOIL	5/26/11	0805		X							
J1JCV6 MJTGC	SOIL	5/26/11	0810		X							
J1JCV7 MJTGD	SOIL	5/26/11	0815		X							
J1JCV8 MJTGE	SOIL	5/26/11	0820		X							

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	5-26-11 1000	JV Fullmer JV Fullmer	1000 5/26/11
JV Fullmer JV Fullmer	5-26-11 1200	A. Freier A. Freier	5-26-11 1200
WCH A. Freier A. Freier	5-26-11 1345	Lucas Vikramas	1345 5/26/11

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY DATE 5/26/11

JP0188

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page ~~5 of 6~~ 3 of 4
Collector K. Lucas	**Company Contact** Joan Kessner; **Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** ~~8L~~ 8B; **Data Turnaround** ~~21~~ 7 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	**Sampling Location** 128 H-1 Reverification sampling	**SAF No.** RC-107	
Ice Chest No. NA	**Field Logbook No.** EL 1627-05; **COA** 0128H12000	**Method of Shipment** Government Vehicle/FedEx	
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** NA	**Bill of Lading/Air Bill No.** NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
None

Lot#JIE260465
SDG#JP0188
Due 6.2.11

Special Handling and/or Storage
Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
J1JCV9 MJTGF	SOIL	5/26/11	0835		X							
J1JCW0 MJTGG	SOIL	5/26/11	0840		X							
J1JCW1 MJTGH	SOIL	5/26/11	0850		X							
J1JCW2 MJTGJ	SOIL	5/26/11	0855		X							
J1JCW3 MJTGL	SOIL	5/26/11	0900		X							

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	5-26-11 1000	JV Fullmer	1000 5/26/11
JV Fullmer	5-26-11 1200	A. Freier	1200 5-26-11
WCH A. Freier	5-26-11 1345	Lucas/Velazquez	1345 5/26/11

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY JP DATE 5/26/11

JP0188

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page ~~6~~ of ~~8~~ 4 of 4
Collector K. Lucas	**Company Contact** Joan Kessner **Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** ~~SL~~ 95 Stat BB **Data Turnaround** ~~21~~ 7 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	**Sampling Location** 128 H-1 Reverification sampling	**SAF No.** RC-107	
Ice Chest No. NA	**Field Logbook No.** EL 1627-05 **COA** 0128H12000	**Method of Shipment** Government Vehicle/FedEx	
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** NA	**Bill of Lading/Air Bill No.** NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
None
Lot#JIE266465
SDG#JP0188
Due 6.2.11

Special Handling and/or Storage
Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			
Sample No. / Matrix * / Sample Date / Sample Time										
J1JCW4 MJTGM / SOIL / 5/26/11 / 0755		X								
~~J1JCW5 / SOIL / 5/26/11 / 0798~~		X								

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time 5-26-11 1000	Received By/Stored In	Date/Time 1000 5/26/11
Relinquished By/Removed From	Date/Time 1200 5-26-11	Received By/Stored In	Date/Time 1200 5-26-11
Relinquished By/Removed From	Date/Time 1345 5-26-11	Received By/Stored In	Date/Time 1345 5/26/11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY DATE 5/26/11

JP0188

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

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

WCH-EE-011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5.26.11 1345 GM Screen Result (out) .6 (in) .8 Initials [CK]

Client: WCH SDG #: JP0188 NA [ ] SAF #: RC-107 NA [ ]

Work Order Number: JIE260 Chain of Custody # RC-107-073

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

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 13 samples @ 1X 4oz NCG per each
7. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
8. Samples have:
   CK tape custody seals (soils - Hexchrome) CK hazard labels appropriate sample labels
9. Samples:
   CK are in good condition ____ are leaking
   ____ are broken ____ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [CK] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

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

See other side for additional comments

Sample Custodian: [signature] Date: 5.26.11 1345

Client Informed on _____ by _____ Person contacted _____

[X] No action necessary; process as is

Project Manager [signature] Date 5/31/11

LS-023, Rev. 12, 10/10

05/27/2011 4:03:41 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

AnalyDueDate: 06/02/2011

Batch: 1147165 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Balance Id:
Pipet #:
Sep1 DT/Tm Tech: JP 0188
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 MJTF0-1-AA J1E260465-1-SAMP 05/26/2011 07:45		2.5064 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
2 MJTF0-1-AC-S J1E260465-1-MS 05/26/2011 07:45		2.5021 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
3 MJTF0-1-AD-X J1E260465-1-DUP 05/26/2011 07:45		2.5041 Pbw: 2.5047 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
4 MJTF6-1-AA J1E260465-2-SAMP 05/26/2011 07:55		2.5060 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
5 MJTF7-1-AA J1E260465-3-SAMP 05/26/2011 08:00		2.5069 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
6 MJTF9-1-AA J1E260465-4-SAMP 05/26/2011 08:05		2.5046 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
7 MJTGC-1-AA J1E260465-5-SAMP 05/26/2011 08:10		2.5092 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

5/27/2011 4:03:42 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

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

AnalyDueDate: 06/02/2011

Batch: 1147165 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MJTGD-1-AA J1E260465-6-SAMP 05/26/2011 08:15		2.5008 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
9 MJTGE-1-AA J1E260465-7-SAMP 05/26/2011 08:20		2.5084 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
10 MJTGF-1-AA J1E260465-8-SAMP 05/26/2011 08:35		2.5053 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
11 MJTGG-1-AA J1E260465-9-SAMP 05/26/2011 08:40		2.5078 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
12 MJTGH-1-AA J1E260465-10-SAMP 05/26/2011 08:50		2.5050 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
13 MJTGJ-1-AA J1E260465-11-SAMP 05/26/2011 08:55		2.5033 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
14 MJTGL-1-AA J1E260465-12-SAMP 05/26/2011 09:00		2.5053 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

TestAmerica Laboratories, Inc.

05/27/2011 4:03:43 PM

Sample Preparation/Analysis

Balance Id:

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

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

Pipet #:

AnalyDueDate: 06/02/2011

Sep1 DT/Tm Tech:

Batch: 1147165 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MJTGM-1-AA J1E260465-13-SAMP 05/26/2011 07:55		2.5057 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
16 MJVTV-1-AA-B J1E270000-165-BLK 05/27/2011 15:55 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
17 MJVTV-1-AC-C J1E270000-165-LCS 05/27/2011 15:55 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

MJTF01AA-SAMP Constituent List:
HEXCHROME RDL:0.1548 mg/kg LCL:80 UCL:120 RPD:20
MJTF01AC-MS Constituent List:

MJVTV1AA-BLK:

MJVTV1AC-LCS:

MJTF01AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MJTF01AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
MJVTV1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/02/2011

Batch: 1147165 mg/kg
SEQ Batch, Test: None

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

UVTV1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y QDRs: B

TestAmerica Laboratories, Inc.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-16317-1

SDG Number: JP0188

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

RECEIVED JUN

Approved for release.
Kae E Yoder
Project Manager II
6/3/2011 12:41 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
06/03/2011

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

The Lab Certification ID# is E87667.

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

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

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-16317-1

SDG #: JP0188
SAF#: RC-107

Date SDG Closed: May 27, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1JCV2	280-16317-1	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV3	280-16317-2	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV4	280-16317-3	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV5	280-16317-4	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV6	280-16317-5	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV7	280-16317-6	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV8	280-16317-7	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCV9	280-16317-8	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCW0	280-16317-9	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCW1	280-16317-10	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCW2	280-18317-11	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCW3	280-16317-12	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCW4	280-16317-13	6010/7471/WTPH-D+/8270A/8082/8310/8081	6010B/7471A/NWTPH-Dx/8270C/8082/8310/8081A
J1JCW5	280-16317-14	6010/7471/WTPH-D+/8270A/8082/8310	6010B/7471A/NWTPH-Dx/8270C/8082/8310

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 5/27/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.6 C, 4.8 C and 3.4 C.

GC/MS SEMIVOLATILES - SW846 8270C
Low levels of Bis(2-ethylhexyl) phthalate and Diethyl phthalate, common laboratory contaminants, are present in the method blank associated with batch 280-69459. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8081A - PESTICIDEs
The MS/MSD performed on sample J1JCV7 exhibited percent recoveries outside the control limits for Endosulfan sulfate and Methoxychlor, and the associated sample results have been flagged "N". In addition, RPD limits were exceeded for Endosulfan II, Endosulfan sulfate and Methoxychlor. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

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

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

HPLC - SW846 8310 - PAHs
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-69503 indicates that physical and chemical interferences are present for cobalt. Results have been flagged with an "X".

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 J1JCV2; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the Matrix Spike performed on sample J1JCV2, 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: 280-16317-1
Sdg Number: JP0188

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	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.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
General Chemistry		
	U	Analyzed for but not detected.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Lab Section	Qualifier	Description
HPLC/IC		
	U	Analyzed for but not detected.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
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: 280-16317-1
Sdg Number: JP0188

Method	Analyst	Analyst ID
SW846 8270C	Kiekel, Daniel C	DCK
SW846 8081A	Ream, Brian E	BER
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Niman, Katie M	KMN
ASTM D-2216	Allen, Andrew J	AJA
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-16317-1	J1JCV2	Solid	05/26/2011 0745	05/27/2011 0930
280-16317-2	J1JCV3	Solid	05/26/2011 0755	05/27/2011 0930
280-16317-3	J1JCV4	Solid	05/26/2011 0800	05/27/2011 0930
280-16317-4	J1JCV5	Solid	05/26/2011 0805	05/27/2011 0930
280-16317-5	J1JCV6	Solid	05/26/2011 0810	05/27/2011 0930
280-16317-6	J1JCV7	Solid	05/26/2011 0815	05/27/2011 0930
280-16317-7	J1JCV8	Solid	05/26/2011 0820	05/27/2011 0930
280-16317-8	J1JCV9	Solid	05/26/2011 0835	05/27/2011 0930
280-16317-9	J1JCW0	Solid	05/26/2011 0840	05/27/2011 0930
280-16317-10	J1JCW1	Solid	05/26/2011 0850	05/27/2011 0930
280-16317-11	J1JCW2	Solid	05/26/2011 0855	05/27/2011 0930
280-16317-12	J1JCW3	Solid	05/26/2011 0900	05/27/2011 0930
280-16317-13	J1JCW4	Solid	05/26/2011 0755	05/27/2011 0930
280-16317-14	J1JCW5	Solid	05/26/2011 0740	05/27/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4135.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 1838			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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		31	J B	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: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4135.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 1838			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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	54		50 - 120
2-Fluorophenol	62		53 - 120
Nitrobenzene-d5	57		50 - 120
Phenol-d5	60		52 - 120
Terphenyl-d14	69		55 - 120
2,4,6-Tribromophenol	54		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid

% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4135.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 1838			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3100	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4136.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	05/31/2011 1857			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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		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		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		35	J B	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4136.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	05/31/2011 1857			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		18	U	18	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	53		50 - 120
2-Fluorophenol	57		53 - 120
Nitrobenzene-d5	55		50 - 120
Phenol-d5	56		52 - 120
Terphenyl-d14	69		55 - 120
2,4,6-Tribromophenol	56		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4136.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	05/31/2011 1857			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.31	620	N J
	Unknown	2.37	150	N J
	Unknown	2.67	3000	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4137.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	05/31/2011 1916			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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		77	J B	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: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4137.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	05/31/2011 1916			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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	56		50 - 120
2-Fluorophenol	61		53 - 120
Nitrobenzene-d5	58		50 - 120
Phenol-d5	61		52 - 120
Terphenyl-d14	70		55 - 120
2,4,6-Tribromophenol	56		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4137.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	05/31/2011 1916			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.32	290	N J
	Unknown	2.67	3500	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4138.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	05/31/2011 1935			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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		74	J B	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	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		29	J B	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		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: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4138.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	05/31/2011 1935			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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	52		50 - 120
2-Fluorophenol	56		53 - 120
Nitrobenzene-d5	54		50 - 120
Phenol-d5	55		52 - 120
Terphenyl-d14	64		55 - 120
2,4,6-Tribromophenol	53		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid

% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4138.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	05/31/2011 1935			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3200	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4139.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	05/31/2011 1954			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		71	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4139.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	05/31/2011 1954			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		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		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	54		50 - 120
2-Fluorophenol	62		53 - 120
Nitrobenzene-d5	57		50 - 120
Phenol-d5	60		52 - 120
Terphenyl-d14	69		55 - 120
2,4,6-Tribromophenol	55		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4139.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	05/31/2011 1954			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3100	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4140.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	05/31/2011 2013			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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		73	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		83	U	83	330
4-Chloro-3-methylphenol		67	U	67	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		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		22	U	22	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: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4140.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	05/31/2011 2013			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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	55		50 - 120
2-Fluorophenol	63		53 - 120
Nitrobenzene-d5	57		50 - 120
Phenol-d5	61		52 - 120
Terphenyl-d14	69		55 - 120
2,4,6-Tribromophenol	56		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4140.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	05/31/2011 2013			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **17**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.33	240	N J
	Unknown	2.67	3300	N J
	Unknown	10.90	32	N J
	Unknown	10.93	10	N J
	Unknown	10.95	6.7	N J
	Unknown	11.14	13	N J
	Unknown	11.45	27	N J
	Unknown	11.49	6.9	N J
	Unknown	11.61	7.7	N J
	Unknown	11.68	7.7	N J
	Unknown	11.77	11	N J
	Unknown	11.98	8.9	N J
	Unknown	12.22	12	N J
	Unknown	12.51	8.0	N J
	Unknown	12.61	6.6	N J
	Unknown	12.94	7.4	N J
	Unknown	12.98	8.5	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4141.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	05/31/2011 2031			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		66	J B	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		81	U	81	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		27	U	27	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		26	U	26	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		29	U	29	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		28	U	28	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		29	U	29	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4141.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	05/31/2011 2031			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		72	U	72	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		28	U	28	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	53		50 - 120
2-Fluorophenol	58		53 - 120
Nitrobenzene-d5	54		50 - 120
Phenol-d5	57		52 - 120
Terphenyl-d14	69		55 - 120
2,4,6-Tribromophenol	53		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4141.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	05/31/2011 2031			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **20**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	2700	N J
	Unknown	10.88	16	N J
	Unknown	10.99	7.5	N J
	Unknown	11.16	9.4	N J
	Unknown	11.19	8.1	N J
	Unknown	11.44	11	N J
	Unknown	11.49	7.6	N J
	Unknown	11.51	9.9	N J
	Unknown	11.54	6.6	N J
	Unknown	11.67	12	N J
	Unknown	11.70	8.0	N J
	Unknown	11.91	8.9	N J
	Unknown	11.97	22	N J
	Unknown	12.09	7.2	N J
	Unknown	12.29	8.7	N J
	Unknown	12.69	7.5	N J
	Unknown	12.79	9.8	N J
	Unknown	12.86	17	N J
	Unknown	13.03	6.7	N J
	Unknown	13.10	7.4	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4142.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	05/31/2011 2050			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4142.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	05/31/2011 2050			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		72	U	72	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		28	U	28	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	52		50 - 120
2-Fluorophenol	60		53 - 120
Nitrobenzene-d5	54		50 - 120
Phenol-d5	60		52 - 120
Terphenyl-d14	63		55 - 120
2,4,6-Tribromophenol	53		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4142.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	05/31/2011 2050			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 17

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3000	N J
	Unknown	10.81	55	N J
	Unknown	10.87	8.7	N J
	Unknown	10.91	30	N J
	Unknown	11.01	63	N J
	Unknown	11.05	26	N J
	Unknown	11.20	170	N J
	Unknown	11.69	38	N J
	Unknown	11.89	11	N J
	Unknown	11.91	30	N J
	Unknown	11.95	85	N J
	Unknown	12.04	7.9	N J
	Unknown	12.10	15	N J
	Unknown	12.29	24	N J
	Unknown	12.45	8.6	N J
	Unknown	12.90	9.9	N J
	Unknown	12.97	14	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4143.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 2109			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		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: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4143.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 2109			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		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	55		50 - 120
2-Fluorophenol	59		53 - 120
Nitrobenzene-d5	58		50 - 120
Phenol-d5	59		52 - 120
Terphenyl-d14	70		55 - 120
2,4,6-Tribromophenol	56		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid

% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4143.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 2109			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **18**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3000	N J
	Unknown	10.79	49	N J
	Unknown	10.87	63	N J
	Unknown	10.89	21	N J
	Unknown	11.00	44	N J
	Unknown	11.03	21	N J
	Unknown	11.18	47	N J
	Unknown	11.53	75	N J
	Unknown	11.81	15	N J
	Unknown	11.93	47	N J
	Unknown	12.06	18	N J
	Unknown	12.14	12	N J
	Unknown	12.26	17	N J
	Unknown	12.31	22	N J
	Unknown	12.41	29	N J
	Unknown	12.65	13	N J
	Unknown	12.67	25	N J
	Unknown	12.72	15	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4144.D
Dilution:	1.0			Initial Weight/Volume:	32.1 g
Analysis Date:	05/31/2011 2128			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		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		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4144.D
Dilution:	1.0			Initial Weight/Volume:	32.1 g
Analysis Date:	05/31/2011 2128			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		94	U	94	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	51		50 - 120
2-Fluorophenol	55		53 - 120
Nitrobenzene-d5	54		50 - 120
Phenol-d5	55		52 - 120
Terphenyl-d14	68		55 - 120
2,4,6-Tribromophenol	54		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4144.D
Dilution:	1.0			Initial Weight/Volume:	32.1 g
Analysis Date:	05/31/2011 2128			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **13**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	2900	N J
	Unknown	10.78	29	N J
	Unknown	10.86	45	N J
	Unknown	10.99	36	N J
	Unknown	11.17	63	N J
	Unknown	11.52	42	N J
	Unknown	11.66	12	N J
	Unknown	11.92	48	N J
	Unknown	12.38	14	N J
	Unknown	12.41	34	N J
	Unknown	12.51	14	N J
	Unknown	12.54	14	N J
	Unknown	12.74	7.4	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4145.D
Dilution:	1.0			Initial Weight/Volume:	32.5 g
Analysis Date:	05/31/2011 2147			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	310
Acenaphthylene		16	U	16	310
Anthracene		16	U	16	310
Benzo[a]anthracene		19	U	19	310
Benzo[a]pyrene		19	U	19	310
Benzo[b]fluoranthene		25	U	25	310
Benzo[ghi]perylene		15	U	15	310
Benzo[k]fluoranthene		38	U	38	310
Bis(2-chloroethoxy)methane		22	U	22	310
Bis(2-chloroethyl)ether		16	U	16	310
bis (2-chloroisopropyl) ether		22	U	22	310
Bis(2-ethylhexyl) phthalate		44	U	44	310
4-Bromophenyl phenyl ether		18	U	18	310
Butyl benzyl phthalate		41	U	41	310
Carbazole		34	U	34	310
4-Chloroaniline		78	U	78	310
4-Chloro-3-methylphenol		63	U	63	310
2-Chloronaphthalene		9.5	U	9.5	310
2-Chlorophenol		20	U	20	310
4-Chlorophenyl phenyl ether		20	U	20	310
Chrysene		26	U	26	310
Dibenz(a,h)anthracene		18	U	18	310
Dibenzofuran		19	U	19	310
1,2-Dichlorobenzene		21	U	21	310
1,3-Dichlorobenzene		11	U	11	310
1,4-Dichlorobenzene		13	U	13	310
3,3'-Dichlorobenzidine		86	U	86	630
2,4-Dichlorophenol		9.5	U	9.5	310
Diethyl phthalate		25	U	25	310
2,4-Dimethylphenol		63	U	63	310
Dimethyl phthalate		22	U	22	310
Di-n-butyl phthalate		28	U	28	310
4,6-Dinitro-2-methylphenol		310	U	310	630
2,4-Dinitrophenol		320	U	320	790
2,4-Dinitrotoluene		63	U	63	310
2,6-Dinitrotoluene		27	U	27	310
Di-n-octyl phthalate		14	U	14	310
Fluoranthene		34	U	34	310
Fluorene		17	U	17	310
Hexachlorobenzene		28	U	28	310
Hexachlorobutadiene		9.5	U	9.5	310
Hexachlorocyclopentadiene		48	U	48	310
Hexachloroethane		20	U	20	310
Indeno[1,2,3-cd]pyrene		21	U	21	310
Isophorone		16	U	16	310
2-Methylnaphthalene		18	U	18	310

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4145.D
Dilution:	1.0			Initial Weight/Volume:	32.5 g
Analysis Date:	05/31/2011 2147			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	310
3 & 4 Methylphenol		31	U	31	310
Naphthalene		30	U	30	310
2-Nitroaniline		48	U	48	310
3-Nitroaniline		69	U	69	310
4-Nitroaniline		69	U	69	310
Nitrobenzene		21	U	21	310
2-Nitrophenol		9.5	U	9.5	310
4-Nitrophenol		92	U	92	630
N-Nitrosodi-n-propylamine		30	U	30	310
N-Nitrosodiphenylamine		20	U	20	310
Pentachlorophenol		310	U	310	630
Phenanthrene		16	U	16	310
Phenol		17	U	17	310
Pyrene		12	U	12	310
1,2,4-Trichlorobenzene		27	U	27	310
2,4,5-Trichlorophenol		9.5	U	9.5	310
2,4,6-Trichlorophenol		9.5	U	9.5	310

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	52		50 - 120
2-Fluorophenol	58		53 - 120
Nitrobenzene-d5	53		50 - 120
Phenol-d5	57		52 - 120
Terphenyl-d14	68		55 - 120
2,4,6-Tribromophenol	56		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4145.D
Dilution:	1.0			Initial Weight/Volume:	32.5 g
Analysis Date:	05/31/2011 2147			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3000	N J
544-76-3	Hexadecane	7.10	52	J J N
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	7.48	230	N J
	Unknown	7.84	140	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4146.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	05/31/2011 2206			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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		81	U	81	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4146.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	05/31/2011 2206			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	56		50 - 120
2-Fluorophenol	60		53 - 120
Nitrobenzene-d5	57		50 - 120
Phenol-d5	59		52 - 120
Terphenyl-d14	71		55 - 120
2,4,6-Tribromophenol	58		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid

% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4146.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	05/31/2011 2206			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3500	N J
	Unknown	10.80	18	N J
	Unknown	10.88	34	N J
	Unknown	11.00	14	N J
	Unknown	11.17	13	N J
	Unknown	11.19	18	N J
	Unknown	11.43	21	N J
	Unknown	11.50	8.9	N J
	Unknown	11.54	16	N J
	Unknown	11.58	19	N J
	Unknown	11.94	9.4	N J
	Unknown	12.02	14	N J
	Unknown	12.43	58	N J
	Unknown	12.74	9.0	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4147.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 2225			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			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		76	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		91	U	91	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		340	U	340	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: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4147.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 2225			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	51		50 - 120
2-Fluorophenol	54		53 - 120
Nitrobenzene-d5	52		50 - 120
Phenol-d5	54		52 - 120
Terphenyl-d14	68		55 - 120
2,4,6-Tribromophenol	53		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4147.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 2225			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3000	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4148.D
Dilution:	1.0			Initial Weight/Volume:	32.5 g
Analysis Date:	05/31/2011 2243			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.5	U	9.5	300
Acenaphthylene		16	U	16	300
Anthracene		16	U	16	300
Benzo[a]anthracene		18	U	18	300
Benzo[a]pyrene		18	U	18	300
Benzo[b]fluoranthene		24	U	24	300
Benzo[ghi]perylene		15	U	15	300
Benzo[k]fluoranthene		37	U	37	300
Bis(2-chloroethoxy)methane		21	U	21	300
Bis(2-chloroethyl)ether		15	U	15	300
bis (2-chloroisopropyl) ether		21	U	21	300
Bis(2-ethylhexyl) phthalate		68	J B	42	300
4-Bromophenyl phenyl ether		18	U	18	300
Butyl benzyl phthalate		40	U	40	300
Carbazole		33	U	33	300
4-Chloroaniline		76	U	76	300
4-Chloro-3-methylphenol		61	U	61	300
2-Chloronaphthalene		9.2	U	9.2	300
2-Chlorophenol		19	U	19	300
4-Chlorophenyl phenyl ether		19	U	19	300
Chrysene		25	U	25	300
Dibenz(a,h)anthracene		18	U	18	300
Dibenzofuran		18	U	18	300
1,2-Dichlorobenzene		20	U	20	300
1,3-Dichlorobenzene		11	U	11	300
1,4-Dichlorobenzene		13	U	13	300
3,3'-Dichlorobenzidine		83	U	83	610
2,4-Dichlorophenol		9.2	U	9.2	300
Diethyl phthalate		24	J B	24	300
2,4-Dimethylphenol		61	U	61	300
Dimethyl phthalate		21	U	21	300
Di-n-butyl phthalate		27	U	27	300
4,6-Dinitro-2-methylphenol		300	U	300	610
2,4-Dinitrophenol		310	U	310	760
2,4-Dinitrotoluene		61	U	61	300
2,6-Dinitrotoluene		26	U	26	300
Di-n-octyl phthalate		13	U	13	300
Fluoranthene		33	U	33	300
Fluorene		17	U	17	300
Hexachlorobenzene		27	U	27	300
Hexachlorobutadiene		9.2	U	9.2	300
Hexachlorocyclopentadiene		46	U	46	300
Hexachloroethane		20	U	20	300
Indeno[1,2,3-cd]pyrene		20	U	20	300
Isophorone		16	U	16	300
2-Methylnaphthalene		18	U	18	300

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4148.D
Dilution:	1.0			Initial Weight/Volume:	32.5 g
Analysis Date:	05/31/2011 2243			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	300
3 & 4 Methylphenol		30	U	30	300
Naphthalene		29	U	29	300
2-Nitroaniline		46	U	46	300
3-Nitroaniline		67	U	67	300
4-Nitroaniline		67	U	67	300
Nitrobenzene		20	U	20	300
2-Nitrophenol		9.2	U	9.2	300
4-Nitrophenol		90	U	90	610
N-Nitrosodi-n-propylamine		29	U	29	300
N-Nitrosodiphenylamine		19	U	19	300
Pentachlorophenol		300	U	300	610
Phenanthrene		16	U	16	300
Phenol		17	U	17	300
Pyrene		11	U	11	300
1,2,4-Trichlorobenzene		26	U	26	300
2,4,5-Trichlorophenol		9.2	U	9.2	300
2,4,6-Trichlorophenol		9.2	U	9.2	300

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	55		50 - 120
2-Fluorophenol	60		53 - 120
Nitrobenzene-d5	57		50 - 120
Phenol-d5	60		52 - 120
Terphenyl-d14	71		55 - 120
2,4,6-Tribromophenol	56		51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid

% Moisture: 0.0

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Prep Method:	3550C	Prep Batch:	280-69459	Lab File ID:	D4148.D
Dilution:	1.0			Initial Weight/Volume:	32.5 g
Analysis Date:	05/31/2011 2243			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.67	3500	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 1927			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			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		0.61	U	0.61	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)		0.48	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		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.18	U	0.18	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		0.22	U	0.22	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 1944			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.31	U	0.31	1.7
Dieldrin		0.20	U	0.20	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2000			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			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		0.61	U	0.61	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)		0.48	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		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.18	U	0.18	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		0.22	U	0.22	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	91		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2017			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.18	U	0.18	1.6
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2034			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.20	U	0.20	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	88		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2050			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			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		0.61	U	0.61	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)		0.48	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		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U N	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.18	U	0.18	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U N	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.22	U	0.22	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		59 - 115
Decachlorobiphenyl	94		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2246			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.6
4,4'-DDE		0.23	U	0.23	1.6
4,4'-DDT		0.57	U	0.57	1.6
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.64	U	0.64	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.41	U	0.41	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.6
Endosulfan sulfate		0.27	U	0.27	1.6
Endrin		0.29	U	0.29	1.6
Endrin aldehyde		0.16	U	0.16	1.6
Endrin ketone		0.47	U	0.47	1.6
gamma-Chlordane		0.26	U	0.26	1.6
Methoxychlor		0.43	U	0.43	3.2
alpha-Chlordane		0.31	U	0.31	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2302			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.18	U	0.18	1.6
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	75		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	32.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2319			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.52	U	0.52	1.6
4,4'-DDE		0.22	U	0.22	1.6
4,4'-DDT		0.56	U	0.56	1.6
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.20	U	0.20	1.6
beta-BHC		0.63	U	0.63	1.6
delta-BHC		0.38	U	0.38	1.6
gamma-BHC (Lindane)		0.44	U	0.44	1.6
Heptachlor		0.20	U	0.20	1.6
Heptachlor epoxide		0.40	U	0.40	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.27	U	0.27	1.6
Endosulfan sulfate		0.26	U	0.26	1.6
Endrin		0.29	U	0.29	1.6
Endrin aldehyde		0.16	U	0.16	1.6
Endrin ketone		0.46	U	0.46	1.6
gamma-Chlordane		0.25	U	0.25	1.6
Methoxychlor		0.43	U	0.43	3.1
alpha-Chlordane		0.31	U	0.31	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		59 - 115
Decachlorobiphenyl	75		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	33.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2335			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.51	U	0.51	1.6
4,4'-DDE		0.22	U	0.22	1.6
4,4'-DDT		0.56	U	0.56	1.6
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.20	U	0.20	1.6
beta-BHC		0.63	U	0.63	1.6
delta-BHC		0.38	U	0.38	1.6
gamma-BHC (Lindane)		0.44	U	0.44	1.6
Heptachlor		0.20	U	0.20	1.6
Heptachlor epoxide		0.40	U	0.40	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.27	U	0.27	1.6
Endosulfan sulfate		0.26	U	0.26	1.6
Endrin		0.29	U	0.29	1.6
Endrin aldehyde		0.16	U	0.16	1.6
Endrin ketone		0.46	U	0.46	1.6
gamma-Chlordane		0.25	U	0.25	1.6
Methoxychlor		0.42	U	0.42	3.1
alpha-Chlordane		0.30	U	0.30	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	85		59 - 115
Decachlorobiphenyl	83		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/31/2011 2352			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		59 - 115
Decachlorobiphenyl	80		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/01/2011 0008			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			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	92		59 - 115
Decachlorobiphenyl	88		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-69446	Initial Weight/Volume:	32.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	06/01/2011 0025			Injection Volume:	1 uL
Prep Date:	05/27/2011 1813			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
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	87		59 - 115
Decachlorobiphenyl	86		63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 1617			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.0	U	2.0	10
Aroclor 1242		4.7	U	4.7	10
Aroclor 1248		4.7	U	4.7	10
Aroclor 1254		2.6	U	2.6	10
Aroclor 1260		2.6	U	2.6	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	89		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 1649			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	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	85		59 - 130
Tetrachloro-m-xylene	83		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 1721			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			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	84		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 1856			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	89		59 - 130
Tetrachloro-m-xylene	85		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 1928			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	85		59 - 130
Tetrachloro-m-xylene	75		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 2000			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	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	82		59 - 130
Tetrachloro-m-xylene	79		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 2103			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	87		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 2135			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	85		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 2207			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.6	U	4.6	9.8
Aroclor 1248		4.6	U	4.6	9.8
Aroclor 1254		2.6	U	2.6	9.8
Aroclor 1260		2.6	U	2.6	9.8

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 2238			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	32.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 2310			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		2.5	U	2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	83		59 - 130
Tetrachloro-m-xylene	76		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/31/2011 2342			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid

% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69903	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/01/2011 1217			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	85		59 - 130
Tetrachloro-m-xylene	80		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-69903	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-69478	Initial Weight/Volume:	32.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	06/01/2011 1249			Injection Volume:	1 uL
Prep Date:	05/27/2011 2131			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.2
Aroclor 1221		7.4	U	7.4	15
Aroclor 1232		1.8	U	1.8	9.2
Aroclor 1242		4.3	U	4.3	9.2
Aroclor 1248		4.3	U	4.3	9.2
Aroclor 1254		2.4	U	2.4	9.2
Aroclor 1260		2.4	U	2.4	9.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	90		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	015F1501.D
Dilution:	1.0			Initial Weight/Volume:	32.8 g
Analysis Date:	06/01/2011 2019			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1400	J	950	3800
C10-C28		650	J	650	3800

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	016F1601.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	06/01/2011 2052			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1100	J	1000	4100
C10-C28		700	U	700	4100

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	017F1701.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	06/01/2011 2125			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1200	J	1000	4100
C10-C28		690	U	690	4100

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	018F1801.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	06/01/2011 2157			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1100	J	1000	4100
C10-C28		700	U	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	019F1901.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	06/01/2011 2230			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1400	J	980	3900
C10-C28		660	U	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	90		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	020F2001.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	06/01/2011 2303			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	021F2101.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	06/01/2011 2335			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			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	89		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	023F2301.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	06/02/2011 0040			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		26000		1000	4000
C10-C28		11000		680	4000

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	024F2401.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	06/02/2011 0112			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7500		990	4000
C10-C28		4300		670	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	027F2701.D
Dilution:	1.0			Initial Weight/Volume:	31.9 g
Analysis Date:	06/02/2011 0249			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7600		970	3900
C10-C28		2800	J	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	87		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	028F2801.D
Dilution:	1.0			Initial Weight/Volume:	32.2 g
Analysis Date:	06/02/2011 0321			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		25000		960	3800
C10-C28		24000		650	3800

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	029F2901.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	06/02/2011 0353			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8400		1000	4000
C10-C28		4600		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	81		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	030F3001.D
Dilution:	1.0			Initial Weight/Volume:	32.6 g
Analysis Date:	06/02/2011 0426			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1200	J	960	3900
C10-C28		650	U	650	3900

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-69485	Lab File ID:	031F3101.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	06/02/2011 0458			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3300	J	940	3800
C10-C28		3100	J	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	79		49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1619			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	99
Acenaphthylene		8.9	U	8.9	99
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.1	U	7.1	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	99
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	88		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1650			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.1	U	5.1	42
Dibenzo(a,h)anthracene		12	U	12	31
Fluoranthene		14	U	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		13	U	13	31
Naphthalene		13	U	13	100
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1721			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	99
Acenaphthylene		8.9	U	8.9	99
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	99
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	32.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1751			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid

% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1822			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.1	U	7.1	29
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1852			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.1	U	5.1	42
Dibenzo(a,h)anthracene		12	U	12	31
Fluoranthene		14	U	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		13	U	13	31
Naphthalene		13	U	13	100
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1923			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.7	U	8.7	97
Anthracene		3.0	U	3.0	19
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.2	U	6.2	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	U	3.8	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	97
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 1953			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.0	U	9.0	100
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.8	U	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	93		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 2054			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	97
Acenaphthylene		8.8	U	8.8	97
Anthracene		3.0	U	3.0	19
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.2	U	6.2	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.0	U	7.0	29
Benzo[k]fluoranthene		3.8	U	3.8	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	97
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	32.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 2125			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.6	U	8.6	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		12	U	12	38
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		11	U	11	29
Naphthalene		11	U	11	96
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	89		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 2155			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	41
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 2327			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.0	U	9.0	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/30/2011 2358			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	93		72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-69468	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/31/2011 0028			Injection Volume:	20 uL
Prep Date:	05/27/2011 1725			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.4	U	9.4	94
Acenaphthylene		8.5	U	8.5	94
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.0	U	6.0	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.8	U	6.8	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	94
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	06/01/2011 1700			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9670		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		3.8		0.65	0.98
Barium		84.3		0.075	0.49
Beryllium		0.25		0.032	0.20
Boron		1.5	B	0.96	2.0
Cadmium		0.083	B	0.040	0.20
Calcium		4060		13.8	49.1
Chromium		12.6		0.057	0.20
Cobalt		7.1	X	0.098	0.98
Copper		14.0		0.21	0.98
Iron		19400		3.7	4.9
Lead		6.7		0.27	0.49
Magnesium		4900		3.6	19.6
Manganese		315		0.098	0.98
Molybdenum		0.26	U	0.26	2.0
Nickel		12.8		0.12	3.9
Potassium		1660		40.2	295
Selenium		0.84	U	0.84	0.98
Silicon		274	N	5.6	9.8
Silver		0.16	U	0.16	0.20
Sodium		239		57.9	118
Vanadium		38.5		0.092	2.0
Zinc		38.8		0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	06/01/2011 1204			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0073	B	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	06/01/2011 1709			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10200		1.5	5.0
Antimony		0.38	U	0.38	0.59
Arsenic		3.9		0.65	0.99
Barium		93.4		0.075	0.50
Beryllium		0.27		0.033	0.20
Boron		2.1		0.97	2.0
Cadmium		0.091	B	0.041	0.20
Calcium		3930		14.0	49.5
Chromium		12.2		0.057	0.20
Cobalt		7.0	X	0.099	0.99
Copper		12.5		0.21	0.99
Iron		19800		3.8	5.0
Lead		5.4		0.27	0.50
Magnesium		4600		3.7	19.8
Manganese		330		0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		11.9		0.12	4.0
Potassium		2040		40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		317		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		197		58.4	119
Vanadium		38.1		0.093	2.0
Zinc		39.8		0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	06/01/2011 1211			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	06/01/2011 1711			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9890		1.5	4.8
Antimony		0.36	U	0.36	0.58
Arsenic		3.4		0.63	0.96
Barium		84.9		0.073	0.48
Beryllium		0.27		0.032	0.19
Boron		1.4	B	0.94	1.9
Cadmium		0.082	B	0.039	0.19
Calcium		4430		13.5	48.0
Chromium		15.2		0.056	0.19
Cobalt		7.1	X	0.096	0.96
Copper		14.1		0.21	0.96
Iron		19500		3.6	4.8
Lead		5.5		0.26	0.48
Magnesium		5100		3.6	19.2
Manganese		309		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		13.9		0.12	3.8
Potassium		1690		39.4	288
Selenium		0.83	U	0.83	0.96
Silicon		319		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		274		56.7	115
Vanadium		38.6		0.090	1.9
Zinc		39.0		0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	06/01/2011 1213			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid
% Moisture: 6.1

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	06/01/2011 1713			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10200		1.5	4.8
Antimony		0.36	U	0.36	0.58
Arsenic		3.4		0.63	0.96
Barium		93.9		0.073	0.48
Beryllium		0.26		0.032	0.19
Boron		1.9		0.94	1.9
Cadmium		0.11	B	0.039	0.19
Calcium		3470		13.5	47.9
Chromium		12.5		0.056	0.19
Cobalt		7.0	X	0.096	0.96
Copper		11.6		0.21	0.96
Iron		19900		3.6	4.8
Lead		5.4		0.26	0.48
Magnesium		4350		3.5	19.2
Manganese		342		0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		11.4		0.12	3.8
Potassium		2120		39.3	288
Selenium		0.82	U	0.82	0.96
Silicon		283		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		227		56.6	115
Vanadium		38.7		0.090	1.9
Zinc		41.9		0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	06/01/2011 1215			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	06/01/2011 1724			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10500		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		4.0		0.60	0.91
Barium		89.1		0.069	0.45
Beryllium		0.28		0.030	0.18
Boron		1.4	B	0.89	1.8
Cadmium		0.070	B	0.037	0.18
Calcium		3840		12.8	45.4
Chromium		12.4		0.053	0.18
Cobalt		7.4	X	0.091	0.91
Copper		13.8		0.20	0.91
Iron		20400		3.4	4.5
Lead		5.6		0.25	0.45
Magnesium		4930		3.4	18.2
Manganese		326		0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		12.6		0.11	3.6
Potassium		1900		37.2	272
Selenium		0.78	U	0.78	0.91
Silicon		409		5.1	9.1
Silver		0.15	U	0.15	0.18
Sodium		272		53.6	109
Vanadium		40.0		0.085	1.8
Zinc		39.6		0.36	0.91

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	06/01/2011 1218			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	06/01/2011 1726			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11100		1.6	5.1
Antimony		0.39	U	0.39	0.62
Arsenic		4.1		0.68	1.0
Barium		97.6		0.078	0.51
Beryllium		0.29		0.034	0.21
Boron		1.6	B	1.0	2.1
Cadmium		0.094	B	0.042	0.21
Calcium		3820		14.5	51.3
Chromium		15.0		0.060	0.21
Cobalt		7.4	X	0.10	1.0
Copper		13.2		0.22	1.0
Iron		21000		3.9	5.1
Lead		5.7		0.28	0.51
Magnesium		4920		3.8	20.5
Manganese		359		0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		14.3		0.13	4.1
Potassium		2350		42.1	308
Selenium		0.88	U	0.88	1.0
Silicon		268		5.8	10.3
Silver		0.16	U	0.16	0.21
Sodium		223		60.5	123
Vanadium		40.4		0.096	2.1
Zinc		43.8		0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	06/01/2011 1220			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	06/01/2011 1728			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10800		1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		3.3		0.61	0.92
Barium		96.7		0.070	0.46
Beryllium		0.28		0.031	0.18
Boron		1.6	B	0.91	1.8
Cadmium		0.097	B	0.038	0.18
Calcium		3730		13.0	46.2
Chromium		12.5		0.054	0.18
Cobalt		7.6	X	0.092	0.92
Copper		13.4		0.20	0.92
Iron		21200		3.5	4.6
Lead		5.8		0.25	0.46
Magnesium		4680		3.4	18.5
Manganese		351		0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		12.4		0.11	3.7
Potassium		2160		37.9	277
Selenium		0.80	U	0.80	0.92
Silicon		304		5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		248		54.6	111
Vanadium		41.7		0.087	1.8
Zinc		42.0		0.37	0.92

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	06/01/2011 1227			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	06/01/2011 1731			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9070		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		3.4		0.65	0.98
Barium		74.3		0.075	0.49
Beryllium		0.23		0.032	0.20
Boron		1.4	B	0.96	2.0
Cadmium		0.080	B	0.040	0.20
Calcium		4720		13.8	49.0
Chromium		11.7		0.057	0.20
Cobalt		6.8	X	0.098	0.98
Copper		15.0		0.21	0.98
Iron		19400		3.7	4.9
Lead		5.3		0.26	0.49
Magnesium		4850		3.6	19.6
Manganese		305		0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		12.3		0.12	3.9
Potassium		1480		40.2	294
Selenium		0.84	U	0.84	0.98
Silicon		281		5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		237		57.8	118
Vanadium		41.0		0.092	2.0
Zinc		37.8		0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	06/01/2011 1229			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	U	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	06/01/2011 1733			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9170		1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		3.4		0.61	0.92
Barium		72.6		0.070	0.46
Beryllium		0.24		0.030	0.18
Boron		1.5	B	0.90	1.8
Cadmium		0.076	B	0.038	0.18
Calcium		5030		12.9	45.9
Chromium		11.8		0.053	0.18
Cobalt		7.0	X	0.092	0.92
Copper		14.1		0.20	0.92
Iron		19100		3.5	4.6
Lead		5.5		0.25	0.46
Magnesium		4890		3.4	18.3
Manganese		297		0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		12.4		0.11	3.7
Potassium		1390		37.6	275
Selenium		0.79	U	0.79	0.92
Silicon		250		5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		306		54.1	110
Vanadium		40.1		0.086	1.8
Zinc		37.6		0.37	0.92

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	06/01/2011 1231			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0067	B	0.0057	0.018

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	06/01/2011 1735			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9540		1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		3.4		0.67	1.0
Barium		67.3		0.077	0.51
Beryllium		0.22		0.034	0.20
Boron		1.8	B	1.0	2.0
Cadmium		0.086	B	0.042	0.20
Calcium		7490		14.3	50.8
Chromium		18.0		0.059	0.20
Cobalt		7.2	X	0.10	1.0
Copper		17.3		0.22	1.0
Iron		19900		3.9	5.1
Lead		5.3		0.27	0.51
Magnesium		5550		3.8	20.3
Manganese		291		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		14.9		0.13	4.1
Potassium		1540		41.7	305
Selenium		0.87	U	0.87	1.0
Silicon		353		5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		355		60.0	122
Vanadium		42.0		0.096	2.0
Zinc		38.4		0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	06/01/2011 1234			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0094	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	06/01/2011 1737			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7500		1.4	4.6
Antimony		0.35	U	0.35	0.56
Arsenic		3.2		0.61	0.93
Barium		64.7		0.071	0.46
Beryllium		0.17	B	0.031	0.19
Boron		1.3	B	0.91	1.9
Cadmium		0.069	B	0.038	0.19
Calcium		9080		13.1	46.4
Chromium		9.3		0.054	0.19
Cobalt		6.4	X	0.093	0.93
Copper		15.1		0.20	0.93
Iron		17200		3.5	4.6
Lead		3.9		0.25	0.46
Magnesium		4500		3.4	18.6
Manganese		250		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		10.6		0.11	3.7
Potassium		1090		38.1	279
Selenium		0.80	U	0.80	0.93
Silicon		281		5.3	9.3
Silver		0.15	U	0.15	0.19
Sodium		259		54.8	111
Vanadium		40.1		0.087	1.9
Zinc		33.0		0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	06/01/2011 1236			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	06/01/2011 1739			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10700		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		3.6		0.59	0.89
Barium		88.9		0.068	0.45
Beryllium		0.29		0.030	0.18
Boron		1.9		0.88	1.8
Cadmium		0.085	B	0.037	0.18
Calcium		4140		12.6	44.7
Chromium		12.9		0.052	0.18
Cobalt		7.7	X	0.089	0.89
Copper		14.9		0.19	0.89
Iron		21100		3.4	4.5
Lead		6.1		0.24	0.45
Magnesium		5270		3.3	17.9
Manganese		342		0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		13.2		0.11	3.6
Potassium		1930		36.7	268
Selenium		0.77	U	0.77	0.89
Silicon		307		5.1	8.9
Silver		0.14	U	0.14	0.18
Sodium		278		52.8	107
Vanadium		41.2		0.084	1.8
Zinc		41.6		0.36	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	06/01/2011 1238			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	06/01/2011 1742			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10100		1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		3.9		0.66	1.0
Barium		89.4		0.076	0.50
Beryllium		0.27		0.033	0.20
Boron		2.0		0.98	2.0
Cadmium		0.087	B	0.041	0.20
Calcium		3850		14.1	49.8
Chromium		12.7		0.058	0.20
Cobalt		6.9	X	0.10	1.0
Copper		13.0		0.22	1.0
Iron		19600		3.8	5.0
Lead		5.2		0.27	0.50
Magnesium		4710		3.7	19.9
Manganese		329		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.4		0.12	4.0
Potassium		2070		40.9	299
Selenium		0.86	U	0.86	1.0
Silicon		289		5.6	10
Silver		0.16	U	0.16	0.20
Sodium		195		58.8	120
Vanadium		37.8		0.094	2.0
Zinc		40.3		0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	06/01/2011 1241			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-69993	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	06/01/2011 1744			Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		192		1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		0.62	U	0.62	0.94
Barium		2.2		0.072	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.92	U	0.92	1.9
Cadmium		0.039	U	0.039	0.19
Calcium		43.5	B	13.3	47.2
Chromium		0.13	B	0.055	0.19
Cobalt		0.11	B X	0.094	0.94
Copper		0.20	U	0.20	0.94
Iron		359		3.6	4.7
Lead		0.25	U	0.25	0.47
Magnesium		26.7		3.5	18.9
Manganese		5.5		0.094	0.94
Molybdenum		0.25	U	0.25	1.9
Nickel		0.16	B	0.12	3.8
Potassium		48.6	B	38.7	283
Selenium		0.81	U	0.81	0.94
Silicon		102		5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		55.7	U	55.7	113
Vanadium		0.38	B	0.089	1.9
Zinc		1.4		0.38	0.94

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	06/01/2011 1243			Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

General Chemistry

Client Sample ID: **J1JCV2**

Lab Sample ID: 280-16317-1
Client Matrix: Solid

Date Sampled: 05/26/2011 0745
Date Received: 05/27/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

General Chemistry

Client Sample ID: **J1JCV3**

Lab Sample ID: 280-16317-2
Client Matrix: Solid

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

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

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

General Chemistry

Client Sample ID: **J1JCV4**

Lab Sample ID: 280-16317-3
Client Matrix: Solid

Date Sampled: 05/26/2011 0800
Date Received: 05/27/2011 0930

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

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

General Chemistry

Client Sample ID: **J1JCV5**

Lab Sample ID: 280-16317-4
Client Matrix: Solid

Date Sampled: 05/26/2011 0805
Date Received: 05/27/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

General Chemistry

Client Sample ID: **J1JCV6**

Lab Sample ID: 280-16317-5
Client Matrix: Solid

Date Sampled: 05/26/2011 0810
Date Received: 05/27/2011 0930

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

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCV7**

Lab Sample ID: 280-16317-6
Client Matrix: Solid

Date Sampled: 05/26/2011 0815
Date Received: 05/27/2011 0930

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

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCV8**

Lab Sample ID: 280-16317-7
Client Matrix: Solid

Date Sampled: 05/26/2011 0820
Date Received: 05/27/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCV9**

Lab Sample ID: 280-16317-8
Client Matrix: Solid

Date Sampled: 05/26/2011 0835
Date Received: 05/27/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCW0**

Lab Sample ID: 280-16317-9
Client Matrix: Solid

Date Sampled: 05/26/2011 0840
Date Received: 05/27/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCW1**

Lab Sample ID: 280-16317-10
Client Matrix: Solid

Date Sampled: 05/26/2011 0850
Date Received: 05/27/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCW2**

Lab Sample ID: 280-16317-11
Client Matrix: Solid

Date Sampled: 05/26/2011 0855
Date Received: 05/27/2011 0930

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

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCW3**

Lab Sample ID: 280-16317-12
Client Matrix: Solid

Date Sampled: 05/26/2011 0900
Date Received: 05/27/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

General Chemistry

Client Sample ID: **J1JCW4**

Lab Sample ID: 280-16317-13
Client Matrix: Solid

Date Sampled: 05/26/2011 0755
Date Received: 05/27/2011 0930

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

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1JCW5**

Lab Sample ID: 280-16317-14
Client Matrix: Solid

Date Sampled: 05/26/2011 0740
Date Received: 05/27/2011 0930

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

Analysis Batch: 280-69659 Analysis Date: 05/31/2011 1101 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-69459					
LCS 280-69459/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-69459/1-A	Method Blank	T	Solid	3550C	
280-16317-1	J1JCV2	T	Solid	3550C	
280-16317-2	J1JCV3	T	Solid	3550C	
280-16317-3	J1JCV4	T	Solid	3550C	
280-16317-4	J1JCV5	T	Solid	3550C	
280-16317-5	J1JCV6	T	Solid	3550C	
280-16317-6	J1JCV7	T	Solid	3550C	
280-16317-7	J1JCV8	T	Solid	3550C	
280-16317-8	J1JCV9	T	Solid	3550C	
280-16317-9	J1JCW0	T	Solid	3550C	
280-16317-10	J1JCW1	T	Solid	3550C	
280-16317-11	J1JCW2	T	Solid	3550C	
280-16317-12	J1JCW3	T	Solid	3550C	
280-16317-13	J1JCW4	T	Solid	3550C	
280-16317-14	J1JCW5	T	Solid	3550C	
280-16317-14MS	Matrix Spike	T	Solid	3550C	
280-16317-14MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-69845					
LCS 280-69459/2-A	Lab Control Sample	T	Solid	8270C	280-69459
MB 280-69459/1-A	Method Blank	T	Solid	8270C	280-69459
280-16317-1	J1JCV2	T	Solid	8270C	280-69459
280-16317-2	J1JCV3	T	Solid	8270C	280-69459
280-16317-3	J1JCV4	T	Solid	8270C	280-69459
280-16317-4	J1JCV5	T	Solid	8270C	280-69459
280-16317-5	J1JCV6	T	Solid	8270C	280-69459
280-16317-6	J1JCV7	T	Solid	8270C	280-69459
280-16317-7	J1JCV8	T	Solid	8270C	280-69459
280-16317-8	J1JCV9	T	Solid	8270C	280-69459
280-16317-9	J1JCW0	T	Solid	8270C	280-69459
280-16317-10	J1JCW1	T	Solid	8270C	280-69459
280-16317-11	J1JCW2	T	Solid	8270C	280-69459
280-16317-12	J1JCW3	T	Solid	8270C	280-69459
280-16317-13	J1JCW4	T	Solid	8270C	280-69459
280-16317-14	J1JCW5	T	Solid	8270C	280-69459
280-16317-14MS	Matrix Spike	T	Solid	8270C	280-69459
280-16317-14MSD	Matrix Spike Duplicate	T	Solid	8270C	280-69459

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-69446					
LCS 280-69446/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-69446/1-A	Method Blank	T	Solid	3550C	
280-16317-1	J1JCV2	T	Solid	3550C	
280-16317-2	J1JCV3	T	Solid	3550C	
280-16317-3	J1JCV4	T	Solid	3550C	
280-16317-4	J1JCV5	T	Solid	3550C	
280-16317-5	J1JCV6	T	Solid	3550C	
280-16317-6	J1JCV7	T	Solid	3550C	
280-16317-6MS	Matrix Spike	T	Solid	3550C	
280-16317-6MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16317-7	J1JCV8	T	Solid	3550C	
280-16317-8	J1JCV9	T	Solid	3550C	
280-16317-9	J1JCW0	T	Solid	3550C	
280-16317-10	J1JCW1	T	Solid	3550C	
280-16317-11	J1JCW2	T	Solid	3550C	
280-16317-12	J1JCW3	T	Solid	3550C	
280-16317-13	J1JCW4	T	Solid	3550C	
Prep Batch: 280-69478					
LCS 280-69478/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-69478/1-A	Method Blank	T	Solid	3550C	
280-16317-1	J1JCV2	T	Solid	3550C	
280-16317-2	J1JCV3	T	Solid	3550C	
280-16317-3	J1JCV4	T	Solid	3550C	
280-16317-3MS	Matrix Spike	T	Solid	3550C	
280-16317-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16317-4	J1JCV5	T	Solid	3550C	
280-16317-5	J1JCV6	T	Solid	3550C	
280-16317-6	J1JCV7	T	Solid	3550C	
280-16317-7	J1JCV8	T	Solid	3550C	
280-16317-8	J1JCV9	T	Solid	3550C	
280-16317-9	J1JCW0	T	Solid	3550C	
280-16317-10	J1JCW1	T	Solid	3550C	
280-16317-11	J1JCW2	T	Solid	3550C	
280-16317-12	J1JCW3	T	Solid	3550C	
280-16317-13	J1JCW4	T	Solid	3550C	
280-16317-14	J1JCW5	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-69485					
LCS 280-69485/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-69485/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-69485/1-A	Method Blank	T	Solid	3550C	
280-16317-1	J1JCV2	T	Solid	3550C	
280-16317-2	J1JCV3	T	Solid	3550C	
280-16317-3	J1JCV4	T	Solid	3550C	
280-16317-4	J1JCV5	T	Solid	3550C	
280-16317-5	J1JCV6	T	Solid	3550C	
280-16317-6	J1JCV7	T	Solid	3550C	
280-16317-7	J1JCV8	T	Solid	3550C	
280-16317-8	J1JCV9	T	Solid	3550C	
280-16317-9	J1JCW0	T	Solid	3550C	
280-16317-9MS	Matrix Spike	T	Solid	3550C	
280-16317-9MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16317-10	J1JCW1	T	Solid	3550C	
280-16317-11	J1JCW2	T	Solid	3550C	
280-16317-12	J1JCW3	T	Solid	3550C	
280-16317-13	J1JCW4	T	Solid	3550C	
280-16317-14	J1JCW5	T	Solid	3550C	
Analysis Batch:280-69853					
LCS 280-69446/2-A	Lab Control Sample	T	Solid	8081A	280-69446
MB 280-69446/1-A	Method Blank	T	Solid	8081A	280-69446
280-16317-1	J1JCV2	T	Solid	8081A	280-69446
280-16317-2	J1JCV3	T	Solid	8081A	280-69446
280-16317-3	J1JCV4	T	Solid	8081A	280-69446
280-16317-4	J1JCV5	T	Solid	8081A	280-69446
280-16317-5	J1JCV6	T	Solid	8081A	280-69446
280-16317-6	J1JCV7	T	Solid	8081A	280-69446
280-16317-6MS	Matrix Spike	T	Solid	8081A	280-69446
280-16317-6MSD	Matrix Spike Duplicate	T	Solid	8081A	280-69446
280-16317-7	J1JCV8	T	Solid	8081A	280-69446
280-16317-8	J1JCV9	T	Solid	8081A	280-69446
280-16317-9	J1JCW0	T	Solid	8081A	280-69446
280-16317-10	J1JCW1	T	Solid	8081A	280-69446
280-16317-11	J1JCW2	T	Solid	8081A	280-69446
280-16317-12	J1JCW3	T	Solid	8081A	280-69446
280-16317-13	J1JCW4	T	Solid	8081A	280-69446

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-69869					
LCS 280-69478/2-A	Lab Control Sample	T	Solid	8082	280-69478
MB 280-69478/1-A	Method Blank	T	Solid	8082	280-69478
280-16317-1	J1JCV2	T	Solid	8082	280-69478
280-16317-2	J1JCV3	T	Solid	8082	280-69478
280-16317-3	J1JCV4	T	Solid	8082	280-69478
280-16317-3MS	Matrix Spike	T	Solid	8082	280-69478
280-16317-3MSD	Matrix Spike Duplicate	T	Solid	8082	280-69478
280-16317-4	J1JCV5	T	Solid	8082	280-69478
280-16317-5	J1JCV6	T	Solid	8082	280-69478
280-16317-6	J1JCV7	T	Solid	8082	280-69478
280-16317-7	J1JCV8	T	Solid	8082	280-69478
280-16317-8	J1JCV9	T	Solid	8082	280-69478
280-16317-9	J1JCW0	T	Solid	8082	280-69478
280-16317-10	J1JCW1	T	Solid	8082	280-69478
280-16317-11	J1JCW2	T	Solid	8082	280-69478
280-16317-12	J1JCW3	T	Solid	8082	280-69478
Analysis Batch:280-69903					
280-16317-13	J1JCW4	T	Solid	8082	280-69478
280-16317-14	J1JCW5	T	Solid	8082	280-69478
Analysis Batch:280-70060					
LCS 280-69485/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-69485
LCSD 280-69485/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-69485
MB 280-69485/1-A	Method Blank	T	Solid	NWTPH-Dx	280-69485
280-16317-1	J1JCV2	T	Solid	NWTPH-Dx	280-69485
280-16317-2	J1JCV3	T	Solid	NWTPH-Dx	280-69485
280-16317-3	J1JCV4	T	Solid	NWTPH-Dx	280-69485
280-16317-4	J1JCV5	T	Solid	NWTPH-Dx	280-69485
280-16317-5	J1JCV6	T	Solid	NWTPH-Dx	280-69485
280-16317-6	J1JCV7	T	Solid	NWTPH-Dx	280-69485
280-16317-7	J1JCV8	T	Solid	NWTPH-Dx	280-69485
280-16317-8	J1JCV9	T	Solid	NWTPH-Dx	280-69485
280-16317-9	J1JCW0	T	Solid	NWTPH-Dx	280-69485
280-16317-9MS	Matrix Spike	T	Solid	NWTPH-Dx	280-69485
280-16317-9MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-69485
280-16317-10	J1JCW1	T	Solid	NWTPH-Dx	280-69485
280-16317-11	J1JCW2	T	Solid	NWTPH-Dx	280-69485
280-16317-12	J1JCW3	T	Solid	NWTPH-Dx	280-69485
280-16317-13	J1JCW4	T	Solid	NWTPH-Dx	280-69485
280-16317-14	J1JCW5	T	Solid	NWTPH-Dx	280-69485

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-69421					
LCS 280-69421/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-69421/1-A	Method Blank	T	Solid	7471A	
280-16317-1	J1JCV2	T	Solid	7471A	
280-16317-1DU	Duplicate	T	Solid	7471A	
280-16317-1MS	Matrix Spike	T	Solid	7471A	
280-16317-2	J1JCV3	T	Solid	7471A	
280-16317-3	J1JCV4	T	Solid	7471A	
280-16317-4	J1JCV5	T	Solid	7471A	
280-16317-5	J1JCV6	T	Solid	7471A	
280-16317-6	J1JCV7	T	Solid	7471A	
280-16317-7	J1JCV8	T	Solid	7471A	
280-16317-8	J1JCV9	T	Solid	7471A	
280-16317-9	J1JCW0	T	Solid	7471A	
280-16317-10	J1JCW1	T	Solid	7471A	
280-16317-11	J1JCW2	T	Solid	7471A	
280-16317-12	J1JCW3	T	Solid	7471A	
280-16317-13	J1JCW4	T	Solid	7471A	
280-16317-14	J1JCW5	T	Solid	7471A	
Prep Batch: 280-69503					
LCS 280-69503/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-69503/1-A	Method Blank	T	Solid	3050B	
280-16317-1	J1JCV2	T	Solid	3050B	
280-16317-1DU	Duplicate	T	Solid	3050B	
280-16317-1MS	Matrix Spike	T	Solid	3050B	
280-16317-2	J1JCV3	T	Solid	3050B	
280-16317-3	J1JCV4	T	Solid	3050B	
280-16317-4	J1JCV5	T	Solid	3050B	
280-16317-5	J1JCV6	T	Solid	3050B	
280-16317-6	J1JCV7	T	Solid	3050B	
280-16317-7	J1JCV8	T	Solid	3050B	
280-16317-8	J1JCV9	T	Solid	3050B	
280-16317-9	J1JCW0	T	Solid	3050B	
280-16317-10	J1JCW1	T	Solid	3050B	
280-16317-11	J1JCW2	T	Solid	3050B	
280-16317-12	J1JCW3	T	Solid	3050B	
280-16317-13	J1JCW4	T	Solid	3050B	
280-16317-14	J1JCW5	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-69993					
LCS 280-69503/2-A	Lab Control Sample	T	Solid	6010B	280-69503
MB 280-69503/1-A	Method Blank	T	Solid	6010B	280-69503
280-16317-1	J1JCV2	T	Solid	6010B	280-69503
280-16317-1DU	Duplicate	T	Solid	6010B	280-69503
280-16317-1MS	Matrix Spike	T	Solid	6010B	280-69503
280-16317-2	J1JCV3	T	Solid	6010B	280-69503
280-16317-3	J1JCV4	T	Solid	6010B	280-69503
280-16317-4	J1JCV5	T	Solid	6010B	280-69503
280-16317-5	J1JCV6	T	Solid	6010B	280-69503
280-16317-6	J1JCV7	T	Solid	6010B	280-69503
280-16317-7	J1JCV8	T	Solid	6010B	280-69503
280-16317-8	J1JCV9	T	Solid	6010B	280-69503
280-16317-9	J1JCW0	T	Solid	6010B	280-69503
280-16317-10	J1JCW1	T	Solid	6010B	280-69503
280-16317-11	J1JCW2	T	Solid	6010B	280-69503
280-16317-12	J1JCW3	T	Solid	6010B	280-69503
280-16317-13	J1JCW4	T	Solid	6010B	280-69503
280-16317-14	J1JCW5	T	Solid	6010B	280-69503
Analysis Batch:280-70006					
LCS 280-69421/2-A	Lab Control Sample	T	Solid	7471A	280-69421
MB 280-69421/1-A	Method Blank	T	Solid	7471A	280-69421
280-16317-1	J1JCV2	T	Solid	7471A	280-69421
280-16317-1DU	Duplicate	T	Solid	7471A	280-69421
280-16317-1MS	Matrix Spike	T	Solid	7471A	280-69421
280-16317-2	J1JCV3	T	Solid	7471A	280-69421
280-16317-3	J1JCV4	T	Solid	7471A	280-69421
280-16317-4	J1JCV5	T	Solid	7471A	280-69421
280-16317-5	J1JCV6	T	Solid	7471A	280-69421
280-16317-6	J1JCV7	T	Solid	7471A	280-69421
280-16317-7	J1JCV8	T	Solid	7471A	280-69421
280-16317-8	J1JCV9	T	Solid	7471A	280-69421
280-16317-9	J1JCW0	T	Solid	7471A	280-69421
280-16317-10	J1JCW1	T	Solid	7471A	280-69421
280-16317-11	J1JCW2	T	Solid	7471A	280-69421
280-16317-12	J1JCW3	T	Solid	7471A	280-69421
280-16317-13	J1JCW4	T	Solid	7471A	280-69421
280-16317-14	J1JCW5	T	Solid	7471A	280-69421

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-69659					
280-16317-1	J1JCV2	T	Solid	D-2216	
280-16317-2	J1JCV3	T	Solid	D-2216	
280-16317-3	J1JCV4	T	Solid	D-2216	
280-16317-4	J1JCV5	T	Solid	D-2216	
280-16317-5	J1JCV6	T	Solid	D-2216	
280-16317-5DU	Duplicate	T	Solid	D-2216	
280-16317-6	J1JCV7	T	Solid	D-2216	
280-16317-7	J1JCV8	T	Solid	D-2216	
280-16317-8	J1JCV9	T	Solid	D-2216	
280-16317-9	J1JCW0	T	Solid	D-2216	
280-16317-10	J1JCW1	T	Solid	D-2216	
280-16317-11	J1JCW2	T	Solid	D-2216	
280-16317-12	J1JCW3	T	Solid	D-2216	
280-16317-13	J1JCW4	T	Solid	D-2216	
280-16317-14	J1JCW5	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-69468					
LCS 280-69468/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-69468/1-A	Method Blank	T	Solid	3550C	
280-16317-1	J1JCV2	T	Solid	3550C	
280-16317-2	J1JCV3	T	Solid	3550C	
280-16317-3	J1JCV4	T	Solid	3550C	
280-16317-4	J1JCV5	T	Solid	3550C	
280-16317-5	J1JCV6	T	Solid	3550C	
280-16317-6	J1JCV7	T	Solid	3550C	
280-16317-7	J1JCV8	T	Solid	3550C	
280-16317-8	J1JCV9	T	Solid	3550C	
280-16317-9	J1JCW0	T	Solid	3550C	
280-16317-10	J1JCW1	T	Solid	3550C	
280-16317-11	J1JCW2	T	Solid	3550C	
280-16317-11MS	Matrix Spike	T	Solid	3550C	
280-16317-11MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-16317-12	J1JCW3	T	Solid	3550C	
280-16317-13	J1JCW4	T	Solid	3550C	
280-16317-14	J1JCW5	T	Solid	3550C	
Analysis Batch:280-69577					
LCS 280-69468/2-A	Lab Control Sample	T	Solid	8310	280-69468
MB 280-69468/1-A	Method Blank	T	Solid	8310	280-69468
280-16317-1	J1JCV2	T	Solid	8310	280-69468
280-16317-2	J1JCV3	T	Solid	8310	280-69468
280-16317-3	J1JCV4	T	Solid	8310	280-69468
280-16317-4	J1JCV5	T	Solid	8310	280-69468
280-16317-5	J1JCV6	T	Solid	8310	280-69468
280-16317-6	J1JCV7	T	Solid	8310	280-69468
280-16317-7	J1JCV8	T	Solid	8310	280-69468
280-16317-8	J1JCV9	T	Solid	8310	280-69468
280-16317-9	J1JCW0	T	Solid	8310	280-69468
280-16317-10	J1JCW1	T	Solid	8310	280-69468
280-16317-11	J1JCW2	T	Solid	8310	280-69468
280-16317-11MS	Matrix Spike	T	Solid	8310	280-69468
280-16317-11MSD	Matrix Spike Duplicate	T	Solid	8310	280-69468
280-16317-12	J1JCW3	T	Solid	8310	280-69468
280-16317-13	J1JCW4	T	Solid	8310	280-69468
280-16317-14	J1JCW5	T	Solid	8310	280-69468

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69459

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-69459/1-A	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-69459	Lab File ID:	D4128.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.7 g
Analysis Date:	05/31/2011 1626	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.4	U	9.4	300
Acenaphthylene	16	U	16	300
Anthracene	16	U	16	300
Benzo[a]anthracene	18	U	18	300
Benzo[a]pyrene	18	U	18	300
Benzo[b]fluoranthene	24	U	24	300
Benzo[ghi]perylene	15	U	15	300
Benzo[k]fluoranthene	37	U	37	300
Bis(2-chloroethoxy)methane	21	U	21	300
Bis(2-chloroethyl)ether	15	U	15	300
bis (2-chloroisopropyl) ether	21	U	21	300
Bis(2-ethylhexyl) phthalate	64.6	J	42	300
4-Bromophenyl phenyl ether	17	U	17	300
Butyl benzyl phthalate	39	U	39	300
Carbazole	33	U	33	300
4-Chloroaniline	75	U	75	300
4-Chloro-3-methylphenol	61	U	61	300
2-Chloronaphthalene	9.2	U	9.2	300
2-Chlorophenol	19	U	19	300
4-Chlorophenyl phenyl ether	19	U	19	300
Chrysene	25	U	25	300
Dibenz(a,h)anthracene	17	U	17	300
Dibenzofuran	18	U	18	300
1,2-Dichlorobenzene	20	U	20	300
1,3-Dichlorobenzene	11	U	11	300
1,4-Dichlorobenzene	12	U	12	300
3,3'-Dichlorobenzidine	83	U	83	610
2,4-Dichlorophenol	9.2	U	9.2	300
Diethyl phthalate	58.1	J	24	300
2,4-Dimethylphenol	61	U	61	300
Dimethyl phthalate	21	U	21	300
Di-n-butyl phthalate	27	U	27	300
4,6-Dinitro-2-methylphenol	300	U	300	610
2,4-Dinitrophenol	310	U	310	760
2,4-Dinitrotoluene	61	U	61	300
2,6-Dinitrotoluene	26	U	26	300
Di-n-octyl phthalate	13	U	13	300
Fluoranthene	33	U	33	300
Fluorene	17	U	17	300
Hexachlorobenzene	27	U	27	300
Hexachlorobutadiene	9.2	U	9.2	300
Hexachlorocyclopentadiene	46	U	46	300
Hexachloroethane	20	U	20	300
Indeno[1,2,3-cd]pyrene	20	U	20	300
Isophorone	16	U	16	300

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69459

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-69459/1-A	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-69459	Lab File ID:	D4128.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.7 g
Analysis Date:	05/31/2011 1626	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	17	U	17	300
2-Methylphenol	12	U	12	300
3 & 4 Methylphenol	30	U	30	300
Naphthalene	28	U	28	300
2-Nitroaniline	46	U	46	300
3-Nitroaniline	67	U	67	300
4-Nitroaniline	67	U	67	300
Nitrobenzene	20	U	20	300
2-Nitrophenol	9.2	U	9.2	300
4-Nitrophenol	89	U	89	610
N-Nitrosodi-n-propylamine	28	U	28	300
N-Nitrosodiphenylamine	19	U	19	300
Pentachlorophenol	300	U	300	610
Phenanthrene	16	U	16	300
Phenol	17	U	17	300
Pyrene	11	U	11	300
1,2,4-Trichlorobenzene	26	U	26	300
2,4,5-Trichlorophenol	9.2	U	9.2	300
2,4,6-Trichlorophenol	9.2	U	9.2	300

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	56	50 - 120
2-Fluorophenol	61	53 - 120
Nitrobenzene-d5	60	50 - 120
Phenol-d5	59	52 - 120
Terphenyl-d14	71	55 - 120
2,4,6-Tribromophenol	55	51 - 120

Method Blank TICs- Batch: 280-69459

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	2.67	3260	N J

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Lab Control Sample - Batch: 280-69459

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-69459/2-A	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-69459	Lab File ID:	D4129.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	05/31/2011 1645	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2600	2020	78	52 - 120	
Anthracene	2600	2130	82	57 - 120	
Carbazole	2600	2130	82	54 - 120	
4-Chloro-3-methylphenol	2600	2130	82	57 - 120	
2-Chlorophenol	2600	2050	79	53 - 120	
1,4-Dichlorobenzene	2600	1900	73	46 - 120	
2,4-Dinitrotoluene	2600	2110	81	53 - 120	
2-Methylnaphthalene	2600	2000	77	55 - 120	
2-Methylphenol	2600	2050	79	51 - 120	
4-Nitrophenol	2600	2300	89	41 - 120	
N-Nitrosodi-n-propylamine	2600	2020	78	51 - 120	
Pentachlorophenol	2600	1930	74	30 - 120	
Phenol	2600	2120	81	54 - 120	
Pyrene	2600	2330	90	50 - 120	
1,2,4-Trichlorobenzene	2600	1730	67	50 - 120	
2,4,6-Trichlorophenol	2600	2070	80	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	60	50 - 120
2-Fluorophenol	61	53 - 120
Nitrobenzene-d5	61	50 - 120
Phenol-d5	64	52 - 120
Terphenyl-d14	65	55 - 120
2,4,6-Tribromophenol	59	51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-69459

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-16317-14	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-69459	Lab File ID:	D4149.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	05/31/2011 2302			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-16317-14	Analysis Batch:	280-69845	Instrument ID:	MSS_D
Client Matrix:	Solid	Prep Batch:	280-69459	Lab File ID:	D4150.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	05/31/2011 2321			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 1935			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	73	78	52 - 120	7	30		
Anthracene	81	84	57 - 120	4	30		
Carbazole	80	82	54 - 120	4	30		
4-Chloro-3-methylphenol	76	85	57 - 120	11	30		
2-Chlorophenol	72	78	53 - 120	9	30		
1,4-Dichlorobenzene	67	73	46 - 120	9	30		
2,4-Dinitrotoluene	78	82	53 - 120	6	30		
2-Methylnaphthalene	68	78	55 - 120	14	30		
2-Methylphenol	70	79	51 - 120	12	30		
4-Nitrophenol	84	87	41 - 120	4	30		
N-Nitrosodi-n-propylamine	71	78	51 - 120	10	30		
Pentachlorophenol	76	80	30 - 120	5	30		
Phenol	73	81	54 - 120	11	30		
Pyrene	87	94	50 - 120	8	38		
1,2,4-Trichlorobenzene	59	68	50 - 120	14	30		
2,4,6-Trichlorophenol	75	81	50 - 120	8	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	55	60	50 - 120
2-Fluorophenol	56	62	53 - 120
Nitrobenzene-d5	54	61	50 - 120
Phenol-d5	57	64	52 - 120
Terphenyl-d14	64	67	55 - 120
2,4,6-Tribromophenol	57	60	51 - 120

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69446

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-69446/1-A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-69446	Lab File ID:	030F3001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 2140	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	05/27/2011 1813			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.53	U	0.53	1.6
4,4'-DDE	0.23	U	0.23	1.6
4,4'-DDT	0.57	U	0.57	1.6
Aldrin	0.24	U	0.24	1.6
alpha-BHC	0.21	U	0.21	1.6
beta-BHC	0.64	U	0.64	1.6
delta-BHC	0.39	U	0.39	1.6
gamma-BHC (Lindane)	0.45	U	0.45	1.6
Heptachlor	0.21	U	0.21	1.6
Heptachlor epoxide	0.41	U	0.41	1.6
Endosulfan I	0.17	U	0.17	1.6
Endosulfan II	0.28	U	0.28	1.6
Endosulfan sulfate	0.27	U	0.27	1.6
Endrin	0.29	U	0.29	1.6
Endrin aldehyde	0.16	U	0.16	1.6
Endrin ketone	0.47	U	0.47	1.6
gamma-Chlordane	0.26	U	0.26	1.6
Methoxychlor	0.43	U	0.43	3.2
alpha-Chlordane	0.31	U	0.31	1.6
Dieldrin	0.20	U	0.20	1.6
Toxaphene	15	U	15	160

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	89	59 - 115
Decachlorobiphenyl	94	63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Lab Control Sample - Batch: 280-69446

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-69446/2-A	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-69446	Lab File ID:	021F2101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	05/31/2011 1911	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	05/27/2011 1813			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.1	13.4	83	57 - 118	
4,4'-DDE	16.1	15.2	94	61 - 115	
4,4'-DDT	16.1	15.6	97	53 - 125	
Aldrin	16.1	14.5	90	60 - 115	
alpha-BHC	16.1	14.9	93	54 - 115	
beta-BHC	16.1	14.9	92	58 - 115	
delta-BHC	16.1	15.1	94	62 - 115	
gamma-BHC (Lindane)	16.1	14.5	90	59 - 115	
Heptachlor	16.1	14.9	93	61 - 115	
Heptachlor epoxide	16.1	15.5	96	62 - 112	
Endosulfan I	16.1	15.2	94	55 - 115	
Endosulfan II	16.1	15.8	98	60 - 115	
Endosulfan sulfate	16.1	15.9	98	58 - 118	
Endrin	16.1	17.9	111	61 - 121	
Endrin aldehyde	16.1	14.4	89	54 - 115	
Endrin ketone	16.1	14.3	89	61 - 118	
gamma-Chlordane	16.1	15.4	95	60 - 115	
Methoxychlor	16.1	15.0	93	52 - 123	
alpha-Chlordane	16.1	15.4	96	60 - 115	
Dieldrin	16.1	16.1	100	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	90	59 - 115
Decachlorobiphenyl	105	63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-69446

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-16317-6	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-69446	Lab File ID:	028F2801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	05/31/2011 2107			Final Weight/Volume:	10000 uL
Prep Date:	05/27/2011 1813			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-16317-6	Analysis Batch:	280-69853	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-69446	Lab File ID:	029F2901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	05/31/2011 2123			Final Weight/Volume:	10000 uL
Prep Date:	05/27/2011 1813			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	80	82	57 - 118	6	20		
4,4'-DDE	97	97	61 - 115	4	15		
4,4'-DDT	92	94	53 - 125	6	29		
Aldrin	95	94	60 - 115	3	50		
alpha-BHC	96	95	54 - 115	3	17		
beta-BHC	95	95	58 - 115	3	17		
delta-BHC	92	95	62 - 115	7	19		
gamma-BHC (Lindane)	95	94	59 - 115	3	24		
Heptachlor	96	96	61 - 115	3	18		
Heptachlor epoxide	98	98	62 - 112	3	18		
Endosulfan I	97	96	55 - 115	3	26		
Endosulfan II	70	88	60 - 115	26	20		*
Endosulfan sulfate	46	75	58 - 118	51	22	N	*
Endrin	112	112	61 - 121	3	30		
Endrin aldehyde	59	73	54 - 115	25	29		
Endrin ketone	72	82	61 - 118	16	20		
gamma-Chlordane	98	97	60 - 115	3	21		
Methoxychlor	31	58	52 - 123	65	23	N	*
alpha-Chlordane	98	98	60 - 115	3	18		
Dieldrin	102	101	63 - 117	3	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	94	94	59 - 115
Decachlorobiphenyl	96	95	63 - 124

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69478

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-69478/1-A	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-69478	Lab File ID:	004F0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.4 g
Analysis Date:	05/31/2011 1513	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	05/27/2011 2131			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.6	U	2.6	9.3
Aroclor 1221	7.4	U	7.4	15
Aroclor 1232	1.9	U	1.9	9.3
Aroclor 1242	4.3	U	4.3	9.3
Aroclor 1248	4.3	U	4.3	9.3
Aroclor 1254	2.4	U	2.4	9.3
Aroclor 1260	2.4	U	2.4	9.3

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	88	59 - 130
Tetrachloro-m-xylene	85	53 - 128

Lab Control Sample - Batch: 280-69478

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-69478/2-A	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-69478	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	05/31/2011 1545	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	05/27/2011 2131			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	32.7	30.1	92	54 - 132	
Aroclor 1260	32.7	31.4	96	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	87	59 - 130
Tetrachloro-m-xylene	86	53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-69478

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-16317-3	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-69478	Lab File ID:	009F0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	05/31/2011 1753			Final Weight/Volume:	5000 uL
Prep Date:	05/27/2011 2131			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-16317-3	Analysis Batch:	280-69869	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-69478	Lab File ID:	010F1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	05/31/2011 1825			Final Weight/Volume:	5000 uL
Prep Date:	05/27/2011 2131			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	87	88	54 - 132	0	26		
Aroclor 1260	90	96	62 - 129	6	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	85	86	59 - 130
Tetrachloro-m-xylene	87	84	53 - 128

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69485

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-69485/1-A	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-69485	Lab File ID:	012F1201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	06/01/2011 1841	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL
Leach Date:	N/A				

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

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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-69485

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-69485/2-A	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-69485	Lab File ID:	013F1301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.1 g
Analysis Date:	06/01/2011 1913	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-69485/3-A	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-69485	Lab File ID:	014F1401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	06/01/2011 1946	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	93	87	57 - 115	10	23		
C10-C28	93	87	53 - 115	10	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	83	82	49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-69485

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-16317-9	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-69485	Lab File ID:	025F2501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	06/02/2011 0144			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-16317-9	Analysis Batch:	280-70060	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-69485	Lab File ID:	026F2601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	06/02/2011 0216			Final Weight/Volume:	1000 uL
Prep Date:	05/27/2011 2302			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	96	98	57 - 115	1	23		
C10-C28	93	92	56 - 115	2	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	74	67	49 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69468

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-69468/1-A	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-69468	Lab File ID:	G0530008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.8 g
Analysis Date:	05/30/2011 1518	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	05/27/2011 1725			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.4	U	9.4	94
Acenaphthylene	8.5	U	8.5	94
Anthracene	2.9	U	2.9	19
Benzo[a]anthracene	3.0	U	3.0	14
Benzo[a]pyrene	6.0	U	6.0	14
Benzo[b]fluoranthene	4.0	U	4.0	14
Benzo[g,h,i]perylene	6.8	U	6.8	28
Benzo[k]fluoranthene	3.7	U	3.7	14
Chrysene	4.6	U	4.6	38
Dibenzo(a,h)anthracene	10	U	10	28
Fluoranthene	12	U	12	38
Fluorene	5.0	U	5.0	28
Indeno[1,2,3-cd]pyrene	11	U	11	28
Naphthalene	11	U	11	94
Phenanthrene	11	U	11	38
Pyrene	11	U	11	38

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

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Lab Control Sample - Batch: 280-69468

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-69468/2-A	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-69468	Lab File ID:	G0530009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	05/30/2011 1549	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	05/27/2011 1725			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1990	1770	89	72 - 115	
Acenaphthylene	1990	1770	89	60 - 115	
Anthracene	1990	1700	85	61 - 115	
Benzo[a]anthracene	1990	1990	100	76 - 115	
Benzo[a]pyrene	1990	1950	98	69 - 115	
Benzo[b]fluoranthene	1990	1880	94	81 - 115	
Benzo[g,h,i]perylene	1990	1950	98	71 - 115	
Benzo[k]fluoranthene	1990	1880	94	85 - 115	
Chrysene	1990	1840	92	70 - 115	
Dibenzo(a,h)anthracene	1990	1900	95	79 - 115	
Fluoranthene	1990	1860	94	67 - 115	
Fluorene	1990	1790	90	72 - 115	
Indeno[1,2,3-cd]pyrene	1990	2050	103	76 - 115	
Naphthalene	1990	1830	92	77 - 115	
Phenanthrene	1990	1840	92	79 - 115	
Pyrene	1990	1920	97	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	88	72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-69468

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-16317-11	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-69468	Lab File ID:	G0530022.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	05/30/2011 2226			Final Weight/Volume:	4000 uL
Prep Date:	05/27/2011 1725			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-16317-11	Analysis Batch:	280-69577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-69468	Lab File ID:	G0530023.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.0 g
Analysis Date:	05/30/2011 2256			Final Weight/Volume:	4000 uL
Prep Date:	05/27/2011 1725			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	92	91	72 - 115	7	20		
Acenaphthylene	93	91	60 - 115	7	21		
Anthracene	91	87	61 - 115	10	20		
Benzo[a]anthracene	106	105	76 - 115	6	20		
Benzo[a]pyrene	105	102	69 - 115	8	20		
Benzo[b]fluoranthene	100	105	81 - 115	0	20		
Benzo[g,h,i]perylene	103	98	71 - 115	10	20		
Benzo[k]fluoranthene	100	101	85 - 115	5	20		
Chrysene	97	96	70 - 115	7	20		
Dibenzo(a,h)anthracene	100	96	79 - 115	10	20		
Fluoranthene	100	95	67 - 115	10	20		
Fluorene	94	92	72 - 115	8	20		
Indeno[1,2,3-cd]pyrene	108	104	76 - 115	10	20		
Naphthalene	97	94	77 - 115	9	20		
Phenanthrene	98	95	79 - 115	9	20		
Pyrene	103	98	77 - 115	10	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	93	92	72 - 115

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69503

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-69503/1-A	Analysis Batch:	280-69993	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	06/01/2011 1656	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				
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	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Lab Control Sample - Batch: 280-69503

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-69503/2-A	Analysis Batch:	280-69993	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	06/01/2011 1658	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	193.9	97	82 - 116	
Antimony	50.0	48.87	98	82 - 110	
Arsenic	100	97.60	98	85 - 110	
Barium	200	209.8	105	87 - 112	
Beryllium	5.00	5.08	102	84 - 114	
Boron	100	96.46	96	81 - 110	
Cadmium	10.0	10.38	104	87 - 110	
Calcium	5000	5100	102	82 - 114	
Chromium	20.0	20.48	102	84 - 114	
Cobalt	50.0	49.98	100	87 - 110	
Copper	25.0	26.54	106	88 - 110	
Iron	100	109.9	110	87 - 120	
Lead	50.0	53.12	106	86 - 110	
Magnesium	5000	5070	101	90 - 110	
Manganese	50.0	51.84	104	88 - 110	
Molybdenum	100	102.2	102	86 - 110	
Nickel	50.0	49.84	100	87 - 110	
Potassium	5000	5260	105	89 - 110	
Selenium	200	207.7	104	83 - 110	
Silicon	1000	122.2	12	10 - 70	
Silver	5.00	5.30	106	87 - 114	
Sodium	5000	5409	108	90 - 112	
Vanadium	50.0	52.09	104	88 - 110	
Zinc	50.0	50.10	100	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Matrix Spike - Batch: 280-69503

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-16317-1	Analysis Batch:	280-69993	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.19 g
Analysis Date:	06/01/2011 1704	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	9670		175	11550	1074	50 - 200	4
Antimony	0.37	U	43.7	19.65	45	20 - 200	
Arsenic	3.8		87.4	80.96	88	76 - 111	
Barium	84.3		175	256.1	98	52 - 159	
Beryllium	0.25		4.37	4.28	92	72 - 105	
Boron	1.5	B	87.4	76.65	86	75 - 107	
Cadmium	0.083	B	8.74	8.38	95	40 - 130	
Calcium	4060		4370	8880	110	43 - 165	
Chromium	12.6		17.5	28.26	89	70 - 200	
Cobalt	7.1		43.7	46.10	89	72 - 106	
Copper	14.0		21.9	35.17	97	37 - 187	
Iron	19400		87.4	20230	921	70 - 200	4
Lead	6.7		43.7	47.22	93	70 - 200	
Magnesium	4900		4370	8871	91	64 - 145	
Manganese	315		43.7	350.9	81	40 - 200	4
Molybdenum	0.26	U	87.4	77.80	89	75 - 103	
Nickel	12.8		43.7	50.22	86	61 - 126	
Potassium	1660		4370	5977	99	56 - 172	
Selenium	0.84	U	175	161.5	92	76 - 104	
Silicon	274		874	388.3	13	20 - 200	N
Silver	0.16	U	4.37	4.20	96	75 - 141	
Sodium	239		4370	4728	103	78 - 111	
Vanadium	38.5		43.7	83.37	103	50 - 169	
Zinc	38.8		43.7	77.19	88	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Duplicate - Batch: 280-69503

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-16317-1	Analysis Batch:	280-69993	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-69503	Lab File ID:	25A1060111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	06/01/2011 1706	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/31/2011 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	9670		10240	6	40	
Antimony	0.37	U	0.37	NC	40	U
Arsenic	3.8		3.86	2	30	
Barium	84.3		91.66	8	30	
Beryllium	0.25		0.277	11	30	
Boron	1.5	B	1.59	9	30	B
Cadmium	0.083	B	0.0776	7	30	B
Calcium	4060		4210	4	30	
Chromium	12.6		13.46	6	40	
Cobalt	7.1		7.17	1	30	
Copper	14.0		14.21	1	30	
Iron	19400		20410	5	40	
Lead	6.7		5.92	13	40	
Magnesium	4900		4980	2	30	
Manganese	315		320.8	2	40	
Molybdenum	0.26	U	0.26	NC	30	U
Nickel	12.8		13.03	2	30	
Potassium	1660		1776	7	40	
Selenium	0.84	U	0.84	NC	30	U
Silicon	274		268.3	2	40	
Silver	0.16	U	0.16	NC	30	U
Sodium	239		254.5	6	30	
Vanadium	38.5		40.24	5	30	
Zinc	38.8		39.74	2	40	

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Method Blank - Batch: 280-69421

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-69421/1-A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	06/01/2011 1159	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-69421

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-69421/2-A	Analysis Batch:	280-70006	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	06/01/2011 1201	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.443	106	87 - 111	

Matrix Spike - Batch: 280-69421

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-16317-1	Analysis Batch:	280-70006	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	06/01/2011 1208	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0073	B	0.400	0.394	96	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Duplicate - Batch: 280-69421

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-16317-1	Analysis Batch:	280-70006	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-69421	Lab File ID:	110601AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.61 g
Analysis Date:	06/01/2011 1206	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	06/01/2011 1015				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0073	B	0.00768	5	20	B

Client: Washington Closure Hanford

Job Number: 280-16317-1
Sdg Number: JP0188

Duplicate - Batch: 280-69659

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-16317-5	Analysis Batch:	280-69659	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:	05/31/2011 1101	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	4.2	4.3	2	20	

4.6°C, 4.8, 3.4 ✓ 52711 m

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page ~~2 of 6~~ 1 of 4
Collector: K. Lucas	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B; Data Turnaround: ~~21~~ 7 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 128 H-1 Reverification sampling	SAF No.: RC-107	
Ice Chest No.: WCH-08-072	Field Logbook No.: EL 1627-05; COA: 0128H12000	Method of Shipment: Government Vehicle/FedEx	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: none	Bill of Lading/Air Bill No.: 7971 4296 2427	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1JCT9~~	~~SOIL~~											
~~J1JCV0~~	~~SOIL~~											
~~J1JCV1~~	~~SOIL~~											
J1JCV2	SOIL	5/26/11	0745	X		X	X	X	X	X		
J1JCV3	SOIL	5/26/11	0755	X		X	X	X	X	X		

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: K. Lucas	Date/Time 5-26-11 1000	Received By/Stored In: JV Fullmer	Date/Time 1000 5/26/11
Relinquished By/Removed From: JV Fullmer	Date/Time 1200 5/26/11	Received By/Stored In: A. PORTER	Date/Time 5/26/11 1200
Relinquished By/Removed From: WCH A. PORTER	Date/Time 1210 5/26/11	Received By/Stored In: Fed Ex	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In:	Date/Time 5/27/11 0930
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY AJ DATE 5-26-11

JP0188

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page 4 of 6

Collector K. Lucas	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code 8L	Data Turnaround 21 Days		
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 128 H-1 Reverification sampling		SAF No. RC-107
Ice Chest No. WCH-08-072	Field Logbook No. EL 1627-05	COA 0128H12000	Method of Shipment Government Vehicle/FedEx
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. None		Bill of Lading/Air Bill No. 7971 4296 2427

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time										
J1JCV4	SOIL	5/26/11	0800	X		X	X	X	X	X			
J1JCV5	SOIL	5/26/11	0805	X		X	X	X	X	X			
J1JCV6	SOIL	5/26/11	0810	X		X	X	X	X	X			
J1JCV7	SOIL	5/26/11	0815	X		X	X	X	X	X			
J1JCV8	SOIL	5/26/11	0820	X		X	X	X	X	X			

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas	5-26-11 1000	JV Fullmer	1000 5/26/11
JV Fullmer	5/26/11 1200	A. PORTER	1200 5/26/11
A. PORTER	WCH 5/26/11 1210	A. PORTER AP	5/26/11 FedEx
			5/27/11 0930

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY AJ
DATE 5-26-11

JP0188

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page ~~5 of 6~~ 3 of 4

Collector K. Lucas	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH	Price Code ~~8L~~ 8B	Data Turnaround ~~21 Days~~ 7
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location 128 H-1 Reverification sampling		SAF No. RC-107		
Ice Chest No. WCH-08-072	Field Logbook No. EL 1627-05	COA 0128H12000	Method of Shipment Government Vehicle FedEx		
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. none		Bill of Lading/Air Bill No. 79714296 2427		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time										
J1JCV9	SOIL	5/26/11	0835	X		X	X	X	X	X			
J1JCW0	SOIL	5/26/11	0840	X		X	X	X	X	X			
J1JCW1	SOIL	5/26/11	0850	X		X	X	X	X	X			
J1JCW2	SOIL	5/26/11	0855	X		X	X	X	X	X			
J1JCW3	SOIL	5/26/11	0900	X		X	X	X	X	X			

to shelf

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By/Removed From: K. Lucas Kevin Lucas — Date/Time 5-26-11 1000	Received By/Stored In: JV Fullmer — Date/Time 1000 5/26/11	
Relinquished By/Removed From: JV Fullmer — Date/Time 1200 5/26/11	Received By/Stored In: A. PORTER Amanda Porter — Date/Time 5/26/11 1200	
Relinquished By/Removed From: WCH A-PORTER Amanda Porter 5/26/11 — Date/Time 1210	Received By/Stored In: Fed Ex — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In: 5/27/11 0930 — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY AJ
DATE 5-26-11

JP0188

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-073	Page ~~6 of 6~~ 4 of 4
Collector K. Lucas	**Company Contact** Joan Kessner **Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** ~~8L~~ 8B **Data Turnaround** ~~21~~ 7 Days
Project Designation 100-H Remaining Sites Burial Grounds - Soil Full Protocol	**Sampling Location** 128 H-1 Reverification sampling	**SAF No.** RC-107	
Ice Chest No. WCH-08-072	**Field Logbook No.** EL 1627-05 **COA** 0128H 12000	**Method of Shipment** Government Vehicle/FedEx	
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver	**Offsite Property No.** none	**Bill of Lading/Air Bill No.** 7971 4296 2427	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 deg C

Preservation	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	aG	aG	aG	aG			
No. of Container(s)	1	1	1	1	1	1	1			
Volume	60mL	60mL	120mL	120mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			
Sample No. / Matrix * / Sample Date / Sample Time										
J1JCW4 / SOIL / 5/26/11 / 0755	X		X	X	X	X	X			
J1JCW5 / SOIL / 5/26/11 / 0740	X		X	X	X	X				

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kenneth Lucas	5-26-11 1000	JV Fullmer	1000 5/26/11
JV Fullmer	1200 5/26/11	A. PORTER Amanda Porter	5/26/11 1200
A. PORTER Amanda Porter	WCH 1210 5/26/11	Fed Ex	
			5/27/11 0930

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY AJ
DATE 5-26-11

JP0188

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - Solid - Coloma

Analytical Due:

Report Due: 6/3/11 (Rush 48 TAT)

Sample Check-in List

Date/Time Received: 5/27/11 0930 GM Screen Result 13, 13, 13 microR/hr

Client: Washington Closure Hanford SDG #: JP0188 NA[ ] SAF #: RC-107 NA [ ]

Job Number: 16317 Chain of Custody # RC-107-073

Shipping Container ID: WCH-08-072 WCH-11-030 WCH-632 Air Bill # 7971 4296 2127, 7971 4296 2552 7971 4296 2622

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: 4.6, 4.8, 7.4 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 14
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added ___
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: 5/27/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 5/31/11

LS-023, Rev. 7, 1/08

From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

J11151102250225

Ship Date: 26MAY11
ActWgt: 61.0 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

FRI - 27 MAY A1
PRIORITY OVERNIGHT

TRK# 7971 4296 2427
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG1/1577/7EFB

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 26MAY11
ActWgt: 46.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 3

FRI - 27 MAY A1
PRIORITY OVERNIGHT

MPS# 7971 4296 2552
0263
Mstr# 7971 4296 2427 0201

XH WHHA

80002
CO-US
DEN

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WASHINGTON CLOSURE HANFORD
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FedEx. Express

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PO #
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Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

3 of 3

FRI - 27 MAY A1
PRIORITY OVERNIGHT

MPS# 7971 4296 2622
0263
Mstr# 7971 4296 2427 0201

XH WHHA

80002
CO-US
DEN

50DG1/1577/7EFB

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