0096289

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 5/11/11
NITIAL/DATE

COMMENTS:

SDG JP0175 SAF-RC-107

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 600-151 Verification Sampling

RECEIVED
MAY 16 2011
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains 38 *Pages*

Report No.: 46515

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.
JP0175	RC-107	J1HK55	J1E020532-1	MHRRG1AA	9MHRRG10	1124361
		J1HK56	J1E020532-2	MHRRH1AA	9MHRRH10	1124361
		J1HK57	J1E020532-3	MHRRJ1AA	9MHRRJ10	1124361
		J1HK58	J1E020532-4	MHRRK1AA	9MHRRK10	1124361
		J1HK59	J1E020532-5	MHRRL1AA	9MHRRL10	1124361
		J1HK60	J1E020532-6	MHRRM1AA	9MHRRM10	1124361
		J1HK61	J1E020532-7	MHRRN1AA	9MHRRN10	1124361
		J1HK62	J1E020532-8	MHRRP1AA	9MHRRP10	1124361
		J1HK63	J1E020532-9	MHRRQ1AA	9MHRRQ10	1124361
		J1HK64	J1E020532-10	MHRRR1AA	9MHRRR10	1124361
	RC-107	J1HK65	J1E020532-11	MHRRT1AA	9MHRRT10	1124361
		J1HK66	J1E020532-12	MHRRV1AA	9MHRRV10	1124361
		J1HK67	J1E020532-13	MHRRW1AA	9MHRRW10	1124361
		J1HK68	J1E020532-14	MHRRX1AA	9MHRRX10	1124361

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

May 9, 2011

Attention: Joan Kessner

SAF Number	:	RC-107
Date SDG Closed	:	May 2, 2011
Number of Samples	:	Fourteen (14)
Sample Type	:	Soil
SDG Number	:	JP0175
Data Deliverable	:	7 Day Summary

CASE NARRATIVE

I. Introduction

On May 2, 2011, fourteen 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
J1HK55	MHRRG	SOIL	5/2/11
J1HK56	MHRRH	SOIL	5/2/11
J1HK57	MHRRJ	SOIL	5/2/11
J1HK58	MHRRK	SOIL	5/2/11
J1HK59	MHRRL	SOIL	5/2/11
J1HK60	MHRRM	SOIL	5/2/11
J1HK61	MHRRN	SOIL	5/2/11
J1HK62	MHRRP	SOIL	5/2/11
J1HK63	MHRRQ	SOIL	5/2/11
J1HK64	MHRRR	SOIL	5/2/11
J1HK65	MHRRT	SOIL	5/2/11
J1HK66	MHRRV	SOIL	5/2/11
J1HK67	MHRRW	SOIL	5/2/11
J1HK68	MHRRX	SOIL	5/2/11

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 65.5%. The post digestive matrix spike recovered at 90.6% and the insoluble matrix spike recovered at 99.8%. This implies strong reducing capacity in the sample, but not enough to exhaust the insoluble matrix spike. Except as noted, the LCS, batch blank, sample, sample duplicate (J1HK55) and sample matrix spike (J1HK55) 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 Kitani
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: 09-May-11

Report No. : 46515

SDG No: JP0175

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1124361	7196_CR6								
	J1HK55								
	MHRRG1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	MHRRG1AD	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	3.50E-01	0.0
	J1HK56								
	MHRRH1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK57								
	MHRRJ1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1HK58								
	MHRRK1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK59								
	MHRRL1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1HK60								
	MHRRM1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK61								
	MHRRN1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1HK62								
	MHRRP1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK63								
	MHRRQ1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK64								
	MHRRR1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK65								
	MHRRT1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK66								
	MHRRV1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK67								
	MHRRW1A	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK68								
	MHRRX1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	

No. of Results: 15

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

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Date: 09-May-11

Report No. : 46515

SDG No.: JP0175

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1124361 MATRIX SPIKE, J1HK55								
MHRRG1AC	HEXCHROME	6.84E+00 +- 0.0E+00		mg/kg	N/A	65%	-0.3	1.54E-01
1124361 LCS,								
MHW6X1AC	HEXCHROME	1.81E+01 +- 0.0E+00		mg/kg	N/A	91%	-0.1	1.55E-01
1124361 BLANK QC,								
MHW6X1AA	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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 10:35:00 AM
Lot-Sample No.:	J1E020532-1	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK55	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRG1AA		Report DB ID:	9MHRRG10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	**SDG:**	JP0175	**Collection Date:**	4/28/2011 10:25:00 AM
Lot-Sample No.:	J1E020532-2	**Report No. :**	46515	**Received Date:**	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK56	**COC No. :**	RC-107-070	**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: 1124361	7196_CR6			**Work Order:** MHRRH1AA			**Report DB ID:** 9MHRRH10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0175	**Collection Date:**	4/28/2011 9:45:00 AM
Lot-Sample No.:	**J1E020532-3**	**Report No. :**	46515	**Received Date:**	5/2/2011 2:40:00 PM
Client Sample ID:	**J1HK57**	**COC No. :**	RC-107-070	**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: 1124361	7196_CR6			**Work Order:** MHRRJ1AA			**Report DB ID:** 9MHRRJ10					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/6/11 08:00 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.

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 9:50:00 AM
Lot-Sample No.:	J1E020532-4	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK58	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRK1AA		Report DB ID:	9MHRRK10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0175	**Collection Date:**	4/28/2011 9:35:00 AM
Lot-Sample No.:	**J1E020532-5**	**Report No. :**	46515	**Received Date:**	5/2/2011 2:40:00 PM
Client Sample ID:	**J1HK59**	**COC No. :**	RC-107-070	**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: 1124361	7196_CR6			**Work Order:**	MHRRL1AA		**Report DB ID:**	9MHRRL10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 10:05:00 AM
Lot-Sample No.:	J1E020532-6	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK60	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRM1AA		Report DB ID:	9MHRRM10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 12:30:00 AM
Lot-Sample No.:	J1E020532-7	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK61	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRN1AA		Report DB ID:	9MHRRN10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 9:15:00 AM
Lot-Sample No.:	J1E020532-8	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK62	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRP1AA		Report DB ID:	9MHRRP10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 1:10:00 PM
Lot-Sample No.:	J1E020532-9	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK63	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRQ1AA		Report DB ID:	9MHRRQ10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 1:20:00 PM
Lot-Sample No.:	J1E020532-10	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK64	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRR1AA		Report DB ID:	9MHRRR10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 12:50:00 PM
Lot-Sample No.:	J1E020532-11	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK65	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRT1AA		Report DB ID:	9MHRRT10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 1:00:00 PM
Lot-Sample No.:	J1E020532-12	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK66	COC No. :	RC-107-070	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: 1124361	7196_CR6			Work Order:	MHRRV1AA		Report DB ID:	9MHRRV10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	**SDG:**	JP0175	**Collection Date:**	4/28/2011 8:50:00 AM
Lot-Sample No.:	J1E020532-13	**Report No. :**	46515	**Received Date:**	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK67	**COC No. :**	RC-107-070	**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: 1124361	7196_CR6			Work Order:	MHRRW1AA		Report DB ID:	9MHRRW10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	**SDG:**	JP0175	**Collection Date:**	4/28/2011 10:35:00 AM
Lot-Sample No.:	J1E020532-14	**Report No. :**	46515	**Received Date:**	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK68	**COC No. :**	RC-107-070	**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: 1124361	7196_CR6			**Work Order:**	MHRRX1AA		**Report DB ID:**	9MHRRX10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/6/11 08:00 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: 09-May-11

Lab Name:	TestAmerica	SDG:	JP0175	Collection Date:	4/28/2011 10:35:00 AM
Lot-Sample No.:	J1E020532-14	Report No. :	46515	Received Date:	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK68	COC No. :	RC-107-070	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: 09-May-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0175	**Collection Date:**	4/28/2011 10:35:00 AM
Lot-Sample No.:	J1E020532-1	**Report No. :**	46515	**Received Date:**	5/2/2011 2:40:00 PM
Client Sample ID:	J1HK55	**COC No. :**	RC-107-070	**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: 1124361	7196_CR6			**Work Order:** MHRRG1AD		**Report DB ID:** MHRRG1ER			**Orig Sa DB ID:** 9MHRRG10			
HEXCHROME	1.54E-01	U		0.0E+00	1.54E-01	mg/kg	N/A	(1.)	5/6/11 08:00 a		2.5	
	1.54E-01	U	**RPD**	**0.0**		3.50E-01		N/A			g	

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

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: 09-May-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0175

Report No. : 46515

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: 1124361	7196_CR6			Work Order:	MHW6X1AA		Report DB ID:	MHW6X1AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	5/6/11 08:00 a		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 Comments:

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: 09-May-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0175

Report No. : 46515

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: 1124361	7196_CR6			Work Order:	MHW6X1AC		Report DB ID:	MHW6X1AS					
HEXCHROME	1.81E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		91%	5/6/11 08:00 a	2.5	
							Rec Limits:	80	120	-0.1		g	

No. of Results: 1 Comments:

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

rptSTLRchLcs
V5.2.14 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 09-May-11

Lab Name: TestAmerica SDG: JP0175

Lot-Sample No.: J1E020532-1, J1HK55 Report No. : 46515 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: 1124361	Work Order:	MHRRG1AC		Report DB ID:	MHRRG1CW		Orig Sa DB ID:	9MHRRG10				
HEXCHROME	6.84E+00			0.0E+00	1.54E-01	mg/kg	N/A	65.48%	1.04E+01	5/6/11 08:00 a	2.5	7196_CR6
	1.54E-01										g	

Number of Results: 1

Comments:

TestAmerica RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.
V5.2.14 A2002

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1124361

Lab Sample Numbers or SDG:**JP0175**

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 65.5%. The insoluble MS recovered within limits at 99.8%. PDMS recovered at 90.6%.

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

Analyst: _____ Date: 5/9/2011

Second-Level Review: _____ Date: 5/9/2011

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-18324**
NCM Initiated By: Hooshang Rahavi
Date Opened: 05/09/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1E020532 (1,10,11,12,13,14,2,3,4,5,6,7, 8,9),
QC Batches: 1124361,

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

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	05/09/2011	The MS recovered low at 65.5%. The insoluble MS recovered within limits at 99.8%. PDMS recovered at 90.6%. Suspect reducing capacity in the sample, but not enough to exhaust the more copious insoluble MS.

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	05/09/2011	Report data

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 5/9/2011

AJ 5-2-11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page ~~7 of 10~~ 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 Days 7
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling	SAF No.: RC-107	
Ice Chest No.: NA	Field Logbook No.: EL 1627-05 COA: 0601512000	Method of Shipment: Government Vehicle/FedEx Hand-Deliver	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1HK53~~	~~SOIL~~				~~4/28/11~~							
~~J1HK54~~	~~SOIL~~				~~4/28/11~~							
J1HK55	SOIL	4/28/11	1035		X		MHRRG					
J1HK56	SOIL	4/28/11	1025		X		MHRRH					
J1HK57	SOIL	4/28/11	0945		X		MHRRJ					

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kenneth Lucas	4-28-11 1400	JU Fullmer JU Fullmer	1400 4/28/11
JU Fullmer JU Fullmer	4/28/11 1810	J.E. Berk	1810 4-28-11
J.E. Berk	5-2-11 1440	TALR Carron Krane	1440 5-2-11

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 AJ
DATE 5-2-11

DUE 5.9.11
SDG# JP0175
LOT# JIE020532

JP0175

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

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

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page ~~8 of 10~~ 2 of 4
Collector: K Lucas	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: 8L BB; Data Turnaround: 21 Days 7
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling	SAF No.: RC-107	
Ice Chest No.: NA	Field Logbook No.: EL 1627-05; COA: 0601512000	Method of Shipment: Government Vehicle/FedEx Hand - Deliver	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
None

Special Handling and/or Storage
Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG				
No. of Container(s)	1	1	1	5	1	1	1				
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081				
Sample No. / Matrix * / Sample Date / Sample Time											
J1HK58 / SOIL / 4/28/11 / 0950		X			MHPRK						
J1HK59 / SOIL / 4/28/11 / 0935		X			MHPPL						
J1HK60 / SOIL / 4/28/11 / 1005		X			MHPPM						
J1HK61 / SOIL / 4/28/11 / 1230		X			MHPPN						
J1HK62 / SOIL / 4/28/11 / 0915		X			MHPPP						

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K Lucas Kenneth Lucas	4-28-11 1400	JV Fullmer JV Fullmer	1400 4/28/11
JV Fullmer JV Fullmer	1810 4/28/11	J.E. Berk	1810 4-28-11
J.E. Berk	1440 5-2-11	TALR (ame) Cameron Krapa	1446 5-2-11

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)

Due 5-9-11
SDGAJP0175
Lot#JIE020532

REVIEWED BY AJ
DATE 5-2-11

JP0175

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-107-070	Page ~~2 of 10~~ 3 of 4
Collector: K. Lucas	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: 8B; Data Turnaround: 21 Days
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling	SAF No.: RC-107	
Ice Chest No.: NA	Field Logbook No.: EL 1627-05; COA: 0601512000	Method of Shipment: Government Vehicle/FedEx Hand-Deliver	
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA	Bill of Lading/Air Bill No.: NA	

POSSIBLE SAMPLE HAZARDS/REMARKS
None

Special Handling and/or Storage
Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG				
No. of Container(s)	1	1	1	5	1	1	1				
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081				

Sample No.	Matrix *	Sample Date	Sample Time										
J1HK63	SOIL	4/28/11	1310		X			MHRR0					
J1HK64	SOIL	4/28/11	1320		X			MHRR2					
J1HK65	SOIL	4/28/11	1250		X			MHRRT					
J1HK66	SOIL	4/28/11	1300		X			MHRRV					
J1HK67	SOIL	4/28/11	0850		X			MHRRW					

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Kenneth Lucas	4-28-11 1400	JV Fullmer	1400 4/28/11
JV Fullmer	4/28/11 1810	J.E. Beck	1810 4-28-11
J.E. Beck	5-2-11 1440	Carmen Lorenza	1440 5-2-11

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)

Due 5-9-11
SOG#JP0175
Lot#J1E020532

REVIEWED BY A1 DATE 5-2-11

JP0175

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-107-070	Page ~~10 of 10~~ 4 of 4

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: ~~21 Days~~ 7		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: NA	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle/FedEx Hand Deliver
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: NA		Bill of Lading/Air Bill No.: NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG				
No. of Container(s)	1	1	1	5	1	1	1				
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PCBs - 8082	PAHs - 8310	Pesticides - 8081				
Sample No. / Matrix * / Sample Date / Sample Time											
J1HK68 / SOIL / 4/28/11 / 1035		X			MHPRX						
~~J1HK69 / SOIL~~		~~4/28/11~~									

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	4-28-11 1400	JV Fullmer	1400 4/28/11
JV Fullmer	1810 4/28/11	J. E. Bell	1810 4-28-11
J. E. Bell	1440 5-2-11	TALR Cameron Kropa	1440 5-2-11

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)

Due 5.9.11
SDG# JP0175
Lot# JIE020532

REVIEWED BY AJ DATE 5-2-11

JP0175

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

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

WCH-EE-011

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5·2·11 1440 GM Screen Result (out) .3 (in) .7 Initials CK

Client: WCH (BHI) SDG #: JP0175 NA [ ] SAF #: RC-107 NA [ ]

Work Order Number: JIE020532 Chain of Custody # RC-107-070

Shipping Container ID: handdelivery NA CK ~~Air~~ Bill # _____ NA CK

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 14 samples @ 1X JAR 60 ML G
7. Sample holding times exceeded? NA [ ] Yes [ ] No CK
8. Samples have:
   ___ tape
   OK custody seals
   (Soil - Hex Chromes)
   ___ hazard labels
   CK appropriate sample labels
9. Samples:
   CK are in good condition
   ___ are broken
   ___ are leaking
   ___ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A CK (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

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

See other side for additional comments

Sample Custodian: Cameron J Ryan Date: 5·2·11 1440

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is

Project Manager Brandon Lee Date 5/2/11

LS-023, Rev. 12, 10/10

TestAmerica Laboratories, Inc.

7/6/2011 7:14:56 AM

Sample Preparation/Analysis

27642, Washington Closure Hanford LLC
echtel Hanford, Inc.

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

Balance Id:
Pipet #:
Sep1 DT/Tm Tech: JP0175
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 05/09/2011

Batch: 1124361 SOIL mg/kg
EQ Batch, Test: None All Tests: 1124361 DWEA,

PM, Quote: RW2, 27038

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:
MHRRG-1-AA J1E020532-1-SAMP 04/28/2011 10:35		2.5125 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
2 MHRRG-1-AC-S J1E020532-1-MS 04/28/2011 10:35		2.5127 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
3 MHRRG-1-AD-X J1E020532-1-DUP 04/28/2011 10:35		2.5124 pb - 2.5069 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
4 MHRRH-1-AA J1E020532-2-SAMP 04/28/2011 10:25		2.5065 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
5 MHRRJ-1-AA J1E020532-3-SAMP 04/28/2011 09:45		2.5026 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
6 MHRRK-1-AA J1E020532-4-SAMP 04/28/2011 09:50		2.5061 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
7 MHRRL-1-AA J1E020532-5-SAMP 04/28/2011 09:35		2.5024 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

5/6/2011 7:14:57 AM

Sample Preparation/Analysis

Balance Id:

27642, Washington Closure Hanford LLC , DW Alkaline Digestion by method 3060A

Pipet #:

echtel Hanford, Inc. EA Chromium, Hexavalent (7196A)

AnalyDueDate: 05/09/2011 5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 1124361 SOIL mg/kg PM, Quote: RW2, 27038

Sep2 DT/Tm Tech:

EQ 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:
7 MHRRM-1-AA J1E020532-6-SAMP 04/28/2011 10:05		2.5167 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
9 MHRRN-1-AA J1E020532-7-SAMP 04/28/2011 12:30		2.5013 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
10 MHRRP-1-AA J1E020532-8-SAMP 04/28/2011 09:15		2.5124 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
11 MHRRQ-1-AA J1E020532-9-SAMP 04/28/2011 13:10		2.5103 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
12 MHRRR-1-AA J1E020532-10-SAMP 04/28/2011 13:20		2.5180 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
13 MHRRT-1-AA J1E020532-11-SAMP 04/28/2011 12:50		2.5117 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
14 MHRRV-1-AA J1E020532-12-SAMP 04/28/2011 13:00		2.5148 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

5/6/2011 7:14:57 AM

Sample Preparation/Analysis

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

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

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

AnalyDueDate: 05/09/2011

Batch: 1124361 SOIL mg/kg PM, Quote: RW2, 27038

BEQ 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:
15 MHRRW-1-AA J1E020532-13-SAMP 04/28/2011 08:50		2.5069 AmtRec: 1XJAR60MLG		#Containers: 1				Scr:	Alpha:	Beta:
16 MHRRX-1-AA J1E020532-14-SAMP 04/28/2011 10:35		2.5025 AmtRec: 1XJAR60MLG		#Containers: 1				Scr:	Alpha:	Beta:
17 MHW6X-1-AA-B J1E040000-361-BLK 05/06/2011 07:14 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
18 MHW6X-1-AC-C J1E040000-361-LCS 05/06/2011 07:14 pd		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

MHRRG1AA-SAMP Constituent List:

HEXCHROME	RDL:0.1548	mg/kg	LCL:80	UCL:120	RPD:20

MHRRG1AC-MS Constituent List:

HEXCHROME	RDL:0.35	mg/kg	LCL:75	UCL:125	RPD:20

MHW6X1AA-BLK:

HEXCHROME	RDL:0.1548	mg/kg	LCL:	UCL:	RPD:

MHW6X1AC-LCS:

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

Sample Preparation/Analysis

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

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

AnalyDueDate: 05/09/2011

Batch: 1124361 mg/kg
REQ 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:

```
MHRRG1AA-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHRRG1AC-MS Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHW6X1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHW6X1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


TestAmerica Laboratories, Inc.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-15313-1

SDG Number: JP0175

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

RECEIVED
MAY 2011

Approved for release.
Kae E Yoder
Project Manager II
5/10/2011 1:49 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
05/10/2011

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: 280-15313-1

SDG #: JP0175
SAF#: RC-107

Date SDG Closed: May 3, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1HK55	280-15313-1	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK56	280-15313-2	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK57	280-15313-3	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK58	280-15313-4	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK59	280-15313-5	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK60	280-15313-6	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK61	280-15313-7	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK62	280-15313-8	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK63	280-15313-9	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK64	280-15313-10	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK65	280-15313-11	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK66	280-15313-12	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK67	280-15313-13	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK68	280-15313-14	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK69	280-15313-15	6010/7471/8310	6010B/7471A/8310
J1HKF7	280-15313-16	8260	8260B

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 5/3/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 3.8 C and -0.4 C.

It can be noted that all samples requesting 5035/8260 VOA analysis were received at the laboratory frozen. The cooler received at a temperature of -0.4 C contained the 5035/8260 VOA samples.

GC/MS VOLATILES - SW846 8260B
Samples J1HK57, J1HK58, J1HK61, J1HK63 and J1HK66 exhibited surrogate recoveries outside the control limits, biased high. This is an indicator that data may be biased high. As no detectable concentrations are present in the samples, corrective action is deemed unnecessary.

Low levels of Carbon disulfide and Methylene Chloride are present in the method blank associated with analysis batch 280-65699 (prep batch 280-65334). 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".

Low levels of Carbon disulfide are present in the method blank associated with analysis batch 280-66298 (prep batch 280-65334). Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The LCS associated with analysis batch 280-66298 (prep batch 280-65334) exhibited the percent recovery outside the control limits, biased high, for Tetrachloroethene, and the associated sample result has been flagged with a "T". This is an indicator that data may be biased high. As no detectable concentration of Tetrachloroethene is present in the associated sample, corrective action is deemed unnecessary.

The MSD aliquot of the MS/MSD performed on sample J1HK63 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "T". In addition, RPD limits were exceeded. 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 8081A - PESTICIDEs

The RPD between the primary and confirmation columns exceeded 40% for 4,4'-DDE in samples J1HK58, J1HK61 and J1HK66. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

The MS/MSD performed on sample J1HK65 exhibited percent recoveries outside the control limits for 4,4'-DDD and 4,4'-DDE, and the associated sample results have been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Continuing Calibration Verification (CCV) standards exhibited %Difference (%D) values >15%, biased high, for Toxaphene, 4,4'-DDT, Heptachlor, Endrin and 4,4'-DDE. The overall mean %D is ≤15%; therefore, method criteria have been met and 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

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

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-65377 indicates that physical and chemical interferences are present for several elements. 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 J1HK55; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the Matrix Spike performed on sample J1HK55, 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.

The duplicate analysis of sample J1HK55 exhibited RPD data outside the control limits for Mercury, and the associated sample result has been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Lab Section	Qualifier	Description
GC/MS 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
	T	LCS, LCSD: Recovery exceeds upper or lower control limits.
	T	MS, MSD: Recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit
GC Semi VOA		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

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

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Closed System Purge and Trap	TAL DEN		SW846 5035
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: 280-15313-1
Sdg Number: JP0175

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
SW846 8081A	Ream, Brian E	BER
SW846 8082	Jackson, Todd D	TDJ
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Niman, Katie M	KMN
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-15313-1	J1HK55	Solid	04/28/2011 1035	05/03/2011 0930
280-15313-2	J1HK56	Solid	04/28/2011 1025	05/03/2011 0930
280-15313-3	J1HK57	Solid	04/28/2011 0945	05/03/2011 0930
280-15313-4	J1HK58	Solid	04/28/2011 0950	05/03/2011 0930
280-15313-5	J1HK59	Solid	04/28/2011 0935	05/03/2011 0930
280-15313-6	J1HK60	Solid	04/28/2011 1005	05/03/2011 0930
280-15313-7	J1HK61	Solid	04/28/2011 1230	05/03/2011 0930
280-15313-8	J1HK62	Solid	04/28/2011 0915	05/03/2011 0930
280-15313-9	J1HK63	Solid	04/28/2011 1310	05/03/2011 0930
280-15313-10	J1HK64	Solid	04/28/2011 1320	05/03/2011 0930
280-15313-11	J1HK65	Solid	04/28/2011 1250	05/03/2011 0930
280-15313-12	J1HK66	Solid	04/28/2011 1300	05/03/2011 0930
280-15313-13	J1HK67	Solid	04/28/2011 0850	05/03/2011 0930
280-15313-14	J1HK68	Solid	04/28/2011 1035	05/03/2011 0930
280-15313-15	J1HK69	Solid	04/28/2011 0815	05/03/2011 0930
280-15313-16	J1HKF7	Solid	04/28/2011 0835	05/03/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3952.D
Dilution:	1.0			Initial Weight/Volume:	5.124 g
Analysis Date:	05/04/2011 1007			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.4	U	5.4	20
Benzene		0.47	U	0.47	5.0
Bromodichloromethane		0.22	U	0.22	5.0
Bromoform		0.23	U	0.23	5.0
Bromomethane		0.50	U	0.50	10
2-Butanone (MEK)		1.8	U	1.8	10
Carbon disulfide		0.42	U	0.42	5.0
Carbon tetrachloride		0.64	U	0.64	5.0
Chlorobenzene		0.55	U	0.55	5.0
Dibromochloromethane		0.58	U	0.58	5.0
Chloroethane		0.90	U	0.90	10
Chloroform		0.29	U	0.29	5.0
Chloromethane		0.78	U	0.78	10
1,1-Dichloroethane		0.21	U	0.21	5.0
1,2-Dichloroethane		0.71	U	0.71	5.0
1,1-Dichloroethene		0.60	U	0.60	5.0
1,2-Dichloroethene, Total		0.39	U	0.39	5.0
1,2-Dichloropropane		0.56	U	0.56	5.0
cis-1,3-Dichloropropene		1.3	U	1.3	5.0
trans-1,3-Dichloropropene		0.68	U	0.68	5.0
Ethylbenzene		0.68	U	0.68	5.0
2-Hexanone		4.9	U	4.9	20
Methylene Chloride		0.76	U	0.76	5.0
4-Methyl-2-pentanone (MIBK)		4.4	U	4.4	10
Styrene		0.64	U	0.64	5.0
1,1,2,2-Tetrachloroethane		0.62	U	0.62	5.0
Tetrachloroethene		0.60	U	0.60	5.0
Toluene		0.70	U	0.70	5.0
1,1,1-Trichloroethane		0.52	U	0.52	5.0
1,1,2-Trichloroethane		0.89	U	0.89	5.0
Trichloroethene		0.23	U	0.23	5.0
Vinyl chloride		1.4	U	1.4	5.0
Xylenes, Total		0.62	U	0.62	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		58 - 140
Toluene-d8 (Surr)	111		80 - 126
4-Bromofluorobenzene (Surr)	115		76 - 127
Dibromofluoromethane (Surr)	104		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3952.D
Dilution:	1.0			Initial Weight/Volume:	5.124 g
Analysis Date:	05/04/2011 1007			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3953.D
Dilution:	1.0			Initial Weight/Volume:	5.467 g
Analysis Date:	05/04/2011 1027			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.1	U	5.1	19
Benzene		0.45	U	0.45	4.8
Bromodichloromethane		0.21	U	0.21	4.8
Bromoform		0.22	U	0.22	4.8
Bromomethane		0.48	U	0.48	9.5
2-Butanone (MEK)		1.7	U	1.7	9.5
Carbon disulfide		0.40	U	0.40	4.8
Carbon tetrachloride		0.60	U	0.60	4.8
Chlorobenzene		0.51	U	0.51	4.8
Dibromochloromethane		0.54	U	0.54	4.8
Chloroethane		0.85	U	0.85	9.5
Chloroform		0.28	U	0.28	4.8
Chloromethane		0.73	U	0.73	9.5
1,1-Dichloroethane		0.20	U	0.20	4.8
1,2-Dichloroethane		0.67	U	0.67	4.8
1,1-Dichloroethene		0.56	U	0.56	4.8
1,2-Dichloroethene, Total		0.37	U	0.37	4.8
1,2-Dichloropropane		0.52	U	0.52	4.8
cis-1,3-Dichloropropene		1.2	U	1.2	4.8
trans-1,3-Dichloropropene		0.64	U	0.64	4.8
Ethylbenzene		0.64	U	0.64	4.8
2-Hexanone		4.7	U	4.7	19
Methylene Chloride		0.71	U	0.71	4.8
4-Methyl-2-pentanone (MIBK)		4.2	U	4.2	9.5
Styrene		0.60	U	0.60	4.8
1,1,2,2-Tetrachloroethane		0.58	U	0.58	4.8
Tetrachloroethene		0.56	U	0.56	4.8
Toluene		0.66	U	0.66	4.8
1,1,1-Trichloroethane		0.50	U	0.50	4.8
1,1,2-Trichloroethane		0.84	U	0.84	4.8
Trichloroethene		0.22	U	0.22	4.8
Vinyl chloride		1.3	U	1.3	4.8
Xylenes, Total		0.58	U	0.58	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		58 - 140
Toluene-d8 (Surr)	112		80 - 126
4-Bromofluorobenzene (Surr)	119		76 - 127
Dibromofluoromethane (Surr)	109		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3953.D
Dilution:	1.0			Initial Weight/Volume:	5.467 g
Analysis Date:	05/04/2011 1027			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3954.D
Dilution:	1.0			Initial Weight/Volume:	4.32 g
Analysis Date:	05/04/2011 1046			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.5	U	6.5	24
Benzene		0.57	U	0.57	6.1
Bromodichloromethane		0.27	U	0.27	6.1
Bromoform		0.28	U	0.28	6.1
Bromomethane		0.61	U	0.61	12
2-Butanone (MEK)		2.2	U	2.2	12
Carbon disulfide		0.51	U	0.51	6.1
Carbon tetrachloride		0.76	U	0.76	6.1
Chlorobenzene		0.66	U	0.66	6.1
Dibromochloromethane		0.69	U	0.69	6.1
Chloroethane		1.1	U	1.1	12
Chloroform		0.35	U	0.35	6.1
Chloromethane		0.93	U	0.93	12
1,1-Dichloroethane		0.25	U	0.25	6.1
1,2-Dichloroethane		0.85	U	0.85	6.1
1,1-Dichloroethene		0.72	U	0.72	6.1
1,2-Dichloroethene, Total		0.47	U	0.47	6.1
1,2-Dichloropropane		0.67	U	0.67	6.1
cis-1,3-Dichloropropene		1.6	U	1.6	6.1
trans-1,3-Dichloropropene		0.81	U	0.81	6.1
Ethylbenzene		0.81	U	0.81	6.1
2-Hexanone		5.9	U	5.9	24
Methylene Chloride		0.91	U	0.91	6.1
4-Methyl-2-pentanone (MIBK)		5.3	U	5.3	12
Styrene		0.76	U	0.76	6.1
1,1,2,2-Tetrachloroethane		0.74	U	0.74	6.1
Tetrachloroethene		0.72	U	0.72	6.1
Toluene		0.84	U	0.84	6.1
1,1,1-Trichloroethane		0.63	U	0.63	6.1
1,1,2-Trichloroethane		1.1	U	1.1	6.1
Trichloroethene		0.28	U	0.28	6.1
Vinyl chloride		1.6	U	1.6	6.1
Xylenes, Total		0.74	U	0.74	6.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		58 - 140
Toluene-d8 (Surr)	115		80 - 126
4-Bromofluorobenzene (Surr)	128	*	76 - 127
Dibromofluoromethane (Surr)	108		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3954.D
Dilution:	1.0			Initial Weight/Volume:	4.32 g
Analysis Date:	05/04/2011 1046			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3957.D
Dilution:	1.0			Initial Weight/Volume:	3.599 g
Analysis Date:	05/04/2011 1144			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		7.7	U	7.7	29
Benzene		0.67	U	0.67	7.1
Bromodichloromethane		0.31	U	0.31	7.1
Bromoform		0.33	U	0.33	7.1
Bromomethane		0.71	U	0.71	14
2-Butanone (MEK)		2.6	U	2.6	14
Carbon disulfide		0.60	U	0.60	7.1
Carbon tetrachloride		0.90	U	0.90	7.1
Chlorobenzene		0.77	U	0.77	7.1
Dibromochloromethane		0.81	U	0.81	7.1
Chloroethane		1.3	U	1.3	14
Chloroform		0.41	U	0.41	7.1
Chloromethane		1.1	U	1.1	14
1,1-Dichloroethane		0.30	U	0.30	7.1
1,2-Dichloroethane		1.0	U	1.0	7.1
1,1-Dichloroethene		0.84	U	0.84	7.1
1,2-Dichloroethene, Total		0.56	U	0.56	7.1
1,2-Dichloropropane		0.79	U	0.79	7.1
cis-1,3-Dichloropropene		1.8	U	1.8	7.1
trans-1,3-Dichloropropene		0.96	U	0.96	7.1
Ethylbenzene		0.96	U	0.96	7.1
2-Hexanone		7.0	U	7.0	29
Methylene Chloride		1.1	U	1.1	7.1
4-Methyl-2-pentanone (MIBK)		6.2	U	6.2	14
Styrene		0.90	U	0.90	7.1
1,1,2,2-Tetrachloroethane		0.87	U	0.87	7.1
Tetrachloroethene		0.84	U	0.84	7.1
Toluene		0.99	U	0.99	7.1
1,1,1-Trichloroethane		0.74	U	0.74	7.1
1,1,2-Trichloroethane		1.3	U	1.3	7.1
Trichloroethene		0.33	U	0.33	7.1
Vinyl chloride		1.9	U	1.9	7.1
Xylenes, Total		0.87	U	0.87	7.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		58 - 140
Toluene-d8 (Surr)	128	*	80 - 126
4-Bromofluorobenzene (Surr)	149	*	76 - 127
Dibromofluoromethane (Surr)	111		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3957.D
Dilution:	1.0			Initial Weight/Volume:	3.599 g
Analysis Date:	05/04/2011 1144			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3958.D
Dilution:	1.0			Initial Weight/Volume:	4.749 g
Analysis Date:	05/04/2011 1203			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.9	U	5.9	22
Benzene		0.52	U	0.52	5.5
Bromodichloromethane		0.24	U	0.24	5.5
Bromoform		0.25	U	0.25	5.5
Bromomethane		0.55	U	0.55	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.46	U	0.46	5.5
Carbon tetrachloride		0.69	U	0.69	5.5
Chlorobenzene		0.59	U	0.59	5.5
Dibromochloromethane		0.63	U	0.63	5.5
Chloroethane		0.98	U	0.98	11
Chloroform		0.32	U	0.32	5.5
Chloromethane		0.84	U	0.84	11
1,1-Dichloroethane		0.23	U	0.23	5.5
1,2-Dichloroethane		0.77	U	0.77	5.5
1,1-Dichloroethene		0.65	U	0.65	5.5
1,2-Dichloroethene, Total		0.43	U	0.43	5.5
1,2-Dichloropropane		0.60	U	0.60	5.5
cis-1,3-Dichloropropene		1.4	U	1.4	5.5
trans-1,3-Dichloropropene		0.73	U	0.73	5.5
Ethylbenzene		0.73	U	0.73	5.5
2-Hexanone		5.4	U	5.4	22
Methylene Chloride		0.82	U	0.82	5.5
4-Methyl-2-pentanone (MIBK)		4.8	U	4.8	11
Styrene		0.69	U	0.69	5.5
1,1,2,2-Tetrachloroethane		0.67	U	0.67	5.5
Tetrachloroethene		0.65	U	0.65	5.5
Toluene		0.76	U	0.76	5.5
1,1,1-Trichloroethane		0.57	U	0.57	5.5
1,1,2-Trichloroethane		0.96	U	0.96	5.5
Trichloroethene		0.25	U	0.25	5.5
Vinyl chloride		1.5	U	1.5	5.5
Xylenes, Total		0.67	U	0.67	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		58 - 140
Toluene-d8 (Surr)	114		80 - 126
4-Bromofluorobenzene (Surr)	118		76 - 127
Dibromofluoromethane (Surr)	107		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3958.D
Dilution:	1.0			Initial Weight/Volume:	4.749 g
Analysis Date:	05/04/2011 1203			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3959.D
Dilution:	1.0			Initial Weight/Volume:	4.891 g
Analysis Date:	05/04/2011 1222			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.7	U	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.23	U	0.23	5.3
Bromoform		0.24	U	0.24	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		1.9	U	1.9	11
Carbon disulfide		0.44	U	0.44	5.3
Carbon tetrachloride		0.67	U	0.67	5.3
Chlorobenzene		0.57	U	0.57	5.3
Dibromochloromethane		0.60	U	0.60	5.3
Chloroethane		0.94	U	0.94	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.81	U	0.81	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.74	U	0.74	5.3
1,1-Dichloroethene		0.62	U	0.62	5.3
1,2-Dichloroethene, Total		0.41	U	0.41	5.3
1,2-Dichloropropane		0.58	U	0.58	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.71	U	0.71	5.3
Ethylbenzene		0.71	U	0.71	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.79	U	0.79	5.3
4-Methyl-2-pentanone (MIBK)		4.6	U	4.6	11
Styrene		0.67	U	0.67	5.3
1,1,2,2-Tetrachloroethane		0.65	U	0.65	5.3
Tetrachloroethene		0.62	U	0.62	5.3
Toluene		0.73	U	0.73	5.3
1,1,1-Trichloroethane		0.55	U	0.55	5.3
1,1,2-Trichloroethane		0.93	U	0.93	5.3
Trichloroethene		0.24	U	0.24	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		0.65	U	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		58 - 140
Toluene-d8 (Surr)	109		80 - 126
4-Bromofluorobenzene (Surr)	114		76 - 127
Dibromofluoromethane (Surr)	104		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3959.D
Dilution:	1.0			Initial Weight/Volume:	4.891 g
Analysis Date:	05/04/2011 1222			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3960.D
Dilution:	1.0			Initial Weight/Volume:	8.457 g
Analysis Date:	05/04/2011 1242			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		3.2	U	3.2	12
Benzene		0.28	U	0.28	3.0
Bromodichloromethane		0.13	U	0.13	3.0
Bromoform		0.14	U	0.14	3.0
Bromomethane		0.30	U	0.30	6.0
2-Butanone (MEK)		1.1	U	1.1	6.0
Carbon disulfide		0.25	U	0.25	3.0
Carbon tetrachloride		0.38	U	0.38	3.0
Chlorobenzene		0.32	U	0.32	3.0
Dibromochloromethane		0.34	U	0.34	3.0
Chloroethane		0.53	U	0.53	6.0
Chloroform		0.17	U	0.17	3.0
Chloromethane		0.46	U	0.46	6.0
1,1-Dichloroethane		0.13	U	0.13	3.0
1,2-Dichloroethane		0.42	U	0.42	3.0
1,1-Dichloroethene		0.35	U	0.35	3.0
1,2-Dichloroethene, Total		0.23	U	0.23	3.0
1,2-Dichloropropane		0.33	U	0.33	3.0
cis-1,3-Dichloropropene		0.77	U	0.77	3.0
trans-1,3-Dichloropropene		0.40	U	0.40	3.0
Ethylbenzene		0.40	U	0.40	3.0
2-Hexanone		2.9	U	2.9	12
Methylene Chloride		0.45	U	0.45	3.0
4-Methyl-2-pentanone (MIBK)		2.6	U	2.6	6.0
Styrene		0.38	U	0.38	3.0
1,1,2,2-Tetrachloroethane		0.36	U	0.36	3.0
Tetrachloroethene		0.35	U	0.35	3.0
Toluene		0.41	U	0.41	3.0
1,1,1-Trichloroethane		0.31	U	0.31	3.0
1,1,2-Trichloroethane		0.52	U	0.52	3.0
Trichloroethene		0.14	U	0.14	3.0
Vinyl chloride		0.80	U	0.80	3.0
Xylenes, Total		0.36	U	0.36	3.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		58 - 140
Toluene-d8 (Surr)	122		80 - 126
4-Bromofluorobenzene (Surr)	139	*	76 - 127
Dibromofluoromethane (Surr)	110		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3960.D
Dilution:	1.0			Initial Weight/Volume:	8.457 g
Analysis Date:	05/04/2011 1242			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3961.D
Dilution:	1.0			Initial Weight/Volume:	4.506 g
Analysis Date:	05/04/2011 1301			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.3	U	6.3	23
Benzene		0.55	U	0.55	5.9
Bromodichloromethane		0.26	U	0.26	5.9
Bromoform		0.27	U	0.27	5.9
Bromomethane		0.59	U	0.59	12
2-Butanone (MEK)		2.1	U	2.1	12
Carbon disulfide		0.49	U	0.49	5.9
Carbon tetrachloride		0.74	U	0.74	5.9
Chlorobenzene		0.63	U	0.63	5.9
Dibromochloromethane		0.67	U	0.67	5.9
Chloroethane		1.0	U	1.0	12
Chloroform		0.34	U	0.34	5.9
Chloromethane		0.90	U	0.90	12
1,1-Dichloroethane		0.25	U	0.25	5.9
1,2-Dichloroethane		0.82	U	0.82	5.9
1,1-Dichloroethene		0.69	U	0.69	5.9
1,2-Dichloroethene, Total		0.46	U	0.46	5.9
1,2-Dichloropropane		0.64	U	0.64	5.9
cis-1,3-Dichloropropene		1.5	U	1.5	5.9
trans-1,3-Dichloropropene		0.78	U	0.78	5.9
Ethylbenzene		0.78	U	0.78	5.9
2-Hexanone		5.7	U	5.7	23
Methylene Chloride		0.88	U	0.88	5.9
4-Methyl-2-pentanone (MIBK)		5.1	U	5.1	12
Styrene		0.74	U	0.74	5.9
1,1,2,2-Tetrachloroethane		0.71	U	0.71	5.9
Tetrachloroethene		0.69	U	0.69	5.9
Toluene		0.81	U	0.81	5.9
1,1,1-Trichloroethane		0.61	U	0.61	5.9
1,1,2-Trichloroethane		1.0	U	1.0	5.9
Trichloroethene		0.27	U	0.27	5.9
Vinyl chloride		1.6	U	1.6	5.9
Xylenes, Total		0.71	U	0.71	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		58 - 140
Toluene-d8 (Surr)	113		80 - 126
4-Bromofluorobenzene (Surr)	119		76 - 127
Dibromofluoromethane (Surr)	106		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3961.D
Dilution:	1.0			Initial Weight/Volume:	4.506 g
Analysis Date:	05/04/2011 1301			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.85	ND	J N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-66298	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	J6375.D
Dilution:	1.0			Initial Weight/Volume:	4.363 g
Analysis Date:	05/05/2011 1658			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.2	U	6.2	23
Benzene		0.54	U T	0.54	5.8
Bromodichloromethane		0.25	U T	0.25	5.8
Bromoform		0.27	U	0.27	5.8
Bromomethane		0.58	U	0.58	12
2-Butanone (MEK)		2.1	U	2.1	12
Carbon disulfide		0.49	U	0.49	5.8
Carbon tetrachloride		0.73	U T	0.73	5.8
Chlorobenzene		0.63	U	0.63	5.8
Dibromochloromethane		0.66	U	0.66	5.8
Chloroethane		1.0	U	1.0	12
Chloroform		0.34	U T	0.34	5.8
Chloromethane		0.89	U	0.89	12
1,1-Dichloroethane		0.24	U T	0.24	5.8
1,2-Dichloroethane		0.81	U	0.81	5.8
1,1-Dichloroethene		0.68	U	0.68	5.8
1,2-Dichloroethene, Total		0.45	U T	0.45	5.8
1,2-Dichloropropane		0.64	U	0.64	5.8
cis-1,3-Dichloropropene		1.5	U	1.5	5.8
trans-1,3-Dichloropropene		0.78	U	0.78	5.8
Ethylbenzene		0.78	U T	0.78	5.8
2-Hexanone		5.7	U	5.7	23
Methylene Chloride		0.87	U	0.87	5.8
4-Methyl-2-pentanone (MIBK)		5.1	U	5.1	12
Styrene		0.73	U	0.73	5.8
1,1,2,2-Tetrachloroethane		0.71	U	0.71	5.8
Tetrachloroethene		0.68	U T	0.68	5.8
Toluene		0.80	U	0.80	5.8
1,1,1-Trichloroethane		0.60	U	0.60	5.8
1,1,2-Trichloroethane		1.0	U	1.0	5.8
Trichloroethene		0.27	U T	0.27	5.8
Vinyl chloride		1.6	U	1.6	5.8
Xylenes, Total		0.71	U	0.71	5.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		58 - 140
Toluene-d8 (Surr)	128	*	80 - 126
4-Bromofluorobenzene (Surr)	120		76 - 127
Dibromofluoromethane (Surr)	117		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-66298	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	J6375.D
Dilution:	1.0			Initial Weight/Volume:	4.363 g
Analysis Date:	05/05/2011 1658			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3963.D
Dilution:	1.0			Initial Weight/Volume:	4.845 g
Analysis Date:	05/04/2011 1340			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.7	U	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.23	U	0.23	5.3
Bromoform		0.25	U	0.25	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		1.9	U	1.9	11
Carbon disulfide		0.45	U	0.45	5.3
Carbon tetrachloride		0.67	U	0.67	5.3
Chlorobenzene		0.58	U	0.58	5.3
Dibromochloromethane		0.61	U	0.61	5.3
Chloroethane		0.95	U	0.95	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.82	U	0.82	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.75	U	0.75	5.3
1,1-Dichloroethene		0.63	U	0.63	5.3
1,2-Dichloroethene, Total		0.42	U	0.42	5.3
1,2-Dichloropropane		0.59	U	0.59	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.71	U	0.71	5.3
Ethylbenzene		0.71	U	0.71	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.80	U	0.80	5.3
4-Methyl-2-pentanone (MIBK)		4.6	U	4.6	11
Styrene		0.67	U	0.67	5.3
1,1,2,2-Tetrachloroethane		0.65	U	0.65	5.3
Tetrachloroethene		0.63	U	0.63	5.3
Toluene		0.74	U	0.74	5.3
1,1,1-Trichloroethane		0.55	U	0.55	5.3
1,1,2-Trichloroethane		0.94	U	0.94	5.3
Trichloroethene		0.25	U	0.25	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		0.65	U	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	109		80 - 126
4-Bromofluorobenzene (Surr)	113		76 - 127
Dibromofluoromethane (Surr)	104		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3963.D
Dilution:	1.0			Initial Weight/Volume:	4.845 g
Analysis Date:	05/04/2011 1340			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.81	ND	J N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3964.D
Dilution:	1.0			Initial Weight/Volume:	4.24 g
Analysis Date:	05/04/2011 1359			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.4	U	6.4	24
Benzene		0.56	U	0.56	5.9
Bromodichloromethane		0.26	U	0.26	5.9
Bromoform		0.27	U	0.27	5.9
Bromomethane		0.59	U	0.59	12
2-Butanone (MEK)		2.2	U	2.2	12
Carbon disulfide		0.50	U	0.50	5.9
Carbon tetrachloride		0.75	U	0.75	5.9
Chlorobenzene		0.64	U	0.64	5.9
Dibromochloromethane		0.68	U	0.68	5.9
Chloroethane		1.1	U	1.1	12
Chloroform		0.34	U	0.34	5.9
Chloromethane		0.91	U	0.91	12
1,1-Dichloroethane		0.25	U	0.25	5.9
1,2-Dichloroethane		0.83	U	0.83	5.9
1,1-Dichloroethene		0.70	U	0.70	5.9
1,2-Dichloroethene, Total		0.46	U	0.46	5.9
1,2-Dichloropropane		0.65	U	0.65	5.9
cis-1,3-Dichloropropene		1.5	U	1.5	5.9
trans-1,3-Dichloropropene		0.79	U	0.79	5.9
Ethylbenzene		0.79	U	0.79	5.9
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		3.4	J B	0.89	5.9
4-Methyl-2-pentanone (MIBK)		5.2	U	5.2	12
Styrene		0.75	U	0.75	5.9
1,1,2,2-Tetrachloroethane		0.72	U	0.72	5.9
Tetrachloroethene		0.70	U	0.70	5.9
Toluene		0.82	U	0.82	5.9
1,1,1-Trichloroethane		0.62	U	0.62	5.9
1,1,2-Trichloroethane		1.0	U	1.0	5.9
Trichloroethene		0.27	U	0.27	5.9
Vinyl chloride		1.6	U	1.6	5.9
Xylenes, Total		0.72	U	0.72	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	110		80 - 126
4-Bromofluorobenzene (Surr)	109		76 - 127
Dibromofluoromethane (Surr)	106		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3964.D
Dilution:	1.0			Initial Weight/Volume:	4.24 g
Analysis Date:	05/04/2011 1359			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.79	ND	J N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3965.D
Dilution:	1.0			Initial Weight/Volume:	4.319 g
Analysis Date:	05/04/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.5	U	6.5	24
Benzene		0.56	U	0.56	6.0
Bromodichloromethane		0.26	U	0.26	6.0
Bromoform		0.28	U	0.28	6.0
Bromomethane		0.60	U	0.60	12
2-Butanone (MEK)		2.2	U	2.2	12
Carbon disulfide		0.50	U	0.50	6.0
Carbon tetrachloride		0.76	U	0.76	6.0
Chlorobenzene		0.65	U	0.65	6.0
Dibromochloromethane		0.68	U	0.68	6.0
Chloroethane		1.1	U	1.1	12
Chloroform		0.35	U	0.35	6.0
Chloromethane		0.92	U	0.92	12
1,1-Dichloroethane		0.25	U	0.25	6.0
1,2-Dichloroethane		0.84	U	0.84	6.0
1,1-Dichloroethene		0.71	U	0.71	6.0
1,2-Dichloroethene, Total		0.47	U	0.47	6.0
1,2-Dichloropropane		0.66	U	0.66	6.0
cis-1,3-Dichloropropene		1.5	U	1.5	6.0
trans-1,3-Dichloropropene		0.80	U	0.80	6.0
Ethylbenzene		0.80	U	0.80	6.0
2-Hexanone		5.9	U	5.9	24
Methylene Chloride		0.90	U	0.90	6.0
4-Methyl-2-pentanone (MIBK)		5.2	U	5.2	12
Styrene		0.76	U	0.76	6.0
1,1,2,2-Tetrachloroethane		0.73	U	0.73	6.0
Tetrachloroethene		0.71	U	0.71	6.0
Toluene		0.83	U	0.83	6.0
1,1,1-Trichloroethane		0.62	U	0.62	6.0
1,1,2-Trichloroethane		1.1	U	1.1	6.0
Trichloroethene		0.28	U	0.28	6.0
Vinyl chloride		1.6	U	1.6	6.0
Xylenes, Total		0.73	U	0.73	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		58 - 140
Toluene-d8 (Surr)	126		80 - 126
4-Bromofluorobenzene (Surr)	149	*	76 - 127
Dibromofluoromethane (Surr)	109		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3965.D
Dilution:	1.0			Initial Weight/Volume:	4.319 g
Analysis Date:	05/04/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.81	ND	J N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3966.D
Dilution:	1.0			Initial Weight/Volume:	4.484 g
Analysis Date:	05/04/2011 1438			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.2	U	6.2	23
Benzene		0.54	U	0.54	5.7
Bromodichloromethane		0.25	U	0.25	5.7
Bromoform		0.26	U	0.26	5.7
Bromomethane		0.57	U	0.57	11
2-Butanone (MEK)		2.1	U	2.1	11
Carbon disulfide		0.48	U	0.48	5.7
Carbon tetrachloride		0.72	U	0.72	5.7
Chlorobenzene		0.62	U	0.62	5.7
Dibromochloromethane		0.65	U	0.65	5.7
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.7
Chloromethane		0.88	U	0.88	11
1,1-Dichloroethane		0.24	U	0.24	5.7
1,2-Dichloroethane		0.80	U	0.80	5.7
1,1-Dichloroethene		0.68	U	0.68	5.7
1,2-Dichloroethene, Total		0.45	U	0.45	5.7
1,2-Dichloropropane		0.63	U	0.63	5.7
cis-1,3-Dichloropropene		1.5	U	1.5	5.7
trans-1,3-Dichloropropene		0.77	U	0.77	5.7
Ethylbenzene		0.77	U	0.77	5.7
2-Hexanone		5.6	U	5.6	23
Methylene Chloride		1.8	J B	0.86	5.7
4-Methyl-2-pentanone (MIBK)		5.0	U	5.0	11
Styrene		0.72	U	0.72	5.7
1,1,2,2-Tetrachloroethane		0.70	U	0.70	5.7
Tetrachloroethene		0.68	U	0.68	5.7
Toluene		0.79	U	0.79	5.7
1,1,1-Trichloroethane		0.60	U	0.60	5.7
1,1,2-Trichloroethane		1.0	U	1.0	5.7
Trichloroethene		0.26	U	0.26	5.7
Vinyl chloride		1.5	U	1.5	5.7
Xylenes, Total		0.70	U	0.70	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	111		80 - 126
4-Bromofluorobenzene (Surr)	109		76 - 127
Dibromofluoromethane (Surr)	106		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3966.D
Dilution:	1.0			Initial Weight/Volume:	4.484 g
Analysis Date:	05/04/2011 1438			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.81	ND	J N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3967.D
Dilution:	1.0			Initial Weight/Volume:	4.772 g
Analysis Date:	05/04/2011 1457			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.8	U	5.8	22
Benzene		0.51	U	0.51	5.4
Bromodichloromethane		0.24	U	0.24	5.4
Bromoform		0.25	U	0.25	5.4
Bromomethane		0.54	U	0.54	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.45	U	0.45	5.4
Carbon tetrachloride		0.68	U	0.68	5.4
Chlorobenzene		0.58	U	0.58	5.4
Dibromochloromethane		0.62	U	0.62	5.4
Chloroethane		0.96	U	0.96	11
Chloroform		0.31	U	0.31	5.4
Chloromethane		0.83	U	0.83	11
1,1-Dichloroethane		0.23	U	0.23	5.4
1,2-Dichloroethane		0.76	U	0.76	5.4
1,1-Dichloroethene		0.64	U	0.64	5.4
1,2-Dichloroethene, Total		0.42	U	0.42	5.4
1,2-Dichloropropane		0.60	U	0.60	5.4
cis-1,3-Dichloropropene		1.4	U	1.4	5.4
trans-1,3-Dichloropropene		0.73	U	0.73	5.4
Ethylbenzene		0.73	U	0.73	5.4
2-Hexanone		5.3	U	5.3	22
Methylene Chloride		1.0	J B	0.81	5.4
4-Methyl-2-pentanone (MIBK)		4.7	U	4.7	11
Styrene		0.68	U	0.68	5.4
1,1,2,2-Tetrachloroethane		0.66	U	0.66	5.4
Tetrachloroethene		0.64	U	0.64	5.4
Toluene		0.75	U	0.75	5.4
1,1,1-Trichloroethane		0.56	U	0.56	5.4
1,1,2-Trichloroethane		0.95	U	0.95	5.4
Trichloroethene		0.25	U	0.25	5.4
Vinyl chloride		1.5	U	1.5	5.4
Xylenes, Total		0.66	U	0.66	5.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		58 - 140
Toluene-d8 (Surr)	108		80 - 126
4-Bromofluorobenzene (Surr)	109		76 - 127
Dibromofluoromethane (Surr)	104		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3967.D
Dilution:	1.0			Initial Weight/Volume:	4.772 g
Analysis Date:	05/04/2011 1457			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.79	ND	J N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HKF7**

Lab Sample ID: 280-15313-16
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 04/28/2011 0835
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3968.D
Dilution:	1.0			Initial Weight/Volume:	4.38 g
Analysis Date:	05/04/2011 1517			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1349				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		32		6.1	23
Benzene		0.54	U	0.54	5.7
Bromodichloromethane		0.25	U	0.25	5.7
Bromoform		0.26	U	0.26	5.7
Bromomethane		0.57	U	0.57	11
2-Butanone (MEK)		6.7	J	2.1	11
Carbon disulfide		0.48	U	0.48	5.7
Carbon tetrachloride		0.72	U	0.72	5.7
Chlorobenzene		0.62	U	0.62	5.7
Dibromochloromethane		0.65	U	0.65	5.7
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.7
Chloromethane		0.88	U	0.88	11
1,1-Dichloroethane		0.24	U	0.24	5.7
1,2-Dichloroethane		0.80	U	0.80	5.7
1,1-Dichloroethene		0.67	U	0.67	5.7
1,2-Dichloroethene, Total		0.45	U	0.45	5.7
1,2-Dichloropropane		0.63	U	0.63	5.7
cis-1,3-Dichloropropene		1.5	U	1.5	5.7
trans-1,3-Dichloropropene		0.77	U	0.77	5.7
Ethylbenzene		0.77	U	0.77	5.7
2-Hexanone		5.6	U	5.6	23
Methylene Chloride		2.6	J B	0.86	5.7
4-Methyl-2-pentanone (MIBK)		5.0	U	5.0	11
Styrene		0.72	U	0.72	5.7
1,1,2,2-Tetrachloroethane		0.70	U	0.70	5.7
Tetrachloroethene		0.67	U	0.67	5.7
Toluene		0.79	U	0.79	5.7
1,1,1-Trichloroethane		0.59	U	0.59	5.7
1,1,2-Trichloroethane		1.0	U	1.0	5.7
Trichloroethene		0.26	U	0.26	5.7
Vinyl chloride		1.5	U	1.5	5.7
Xylenes, Total		0.70	U	0.70	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		58 - 140
Toluene-d8 (Surr)	109		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	107		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HKF7**

Lab Sample ID: 280-15313-16
Client Matrix: Solid

% Moisture: 0.1

Date Sampled: 04/28/2011 0835
Date Received: 05/03/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Prep Method:	5035	Prep Batch:	280-65334	Lab File ID:	G2_3968.D
Dilution:	1.0			Initial Weight/Volume:	4.38 g
Analysis Date:	05/04/2011 1517			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1349				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.81	ND	J N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 1905			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.21	U	0.21	1.7
beta-BHC		0.66	U	0.66	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.46	U	0.46	1.7
Heptachlor		0.21	U	0.21	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	97		59 - 115
Decachlorobiphenyl	105		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 1922			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.21	U	0.21	1.7
beta-BHC		0.66	U	0.66	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.46	U	0.46	1.7
Heptachlor		0.21	U	0.21	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 1938			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.56	U	0.56	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.68	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		0.30	U	0.30	1.8
Endosulfan sulfate		0.28	U	0.28	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.50	U	0.50	1.8
gamma-Chlordane		0.27	U	0.27	1.8
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	71		59 - 115
Decachlorobiphenyl	100		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 1955			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			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		0.55	J X	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	75		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2012			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			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	91		59 - 115
Decachlorobiphenyl	88		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2028			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	108		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2045			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			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		0.26	J X	0.23	1.7
4,4'-DDT		0.57	U	0.57	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		0.41	U	0.41	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	65		59 - 115
Decachlorobiphenyl	80		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2101			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			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	87		59 - 115
Decachlorobiphenyl	96		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2224			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			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		0.23	U	0.23	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		0.41	U	0.41	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		0.47	U	0.47	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	91		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2240			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	76		59 - 115
Decachlorobiphenyl	93		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2257			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U N	0.53	1.7
4,4'-DDE		0.23	U N	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	74		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/05/2011 2347			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		3.4	X	0.25	1.8
4,4'-DDT		0.91	J	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	76		59 - 115
Decachlorobiphenyl	107		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/06/2011 0003			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			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	94		59 - 115
Decachlorobiphenyl	85		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65376	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/06/2011 0020			Injection Volume:	1 uL
Prep Date:	05/03/2011 2005			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		0.17	U	0.17	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	93		59 - 115
Decachlorobiphenyl	85		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0139			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	84		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0314			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	83		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0346			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	67		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0418			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	81		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0449			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	80		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0521			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	83		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0625			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0656			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0728			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	82		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0800			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	95		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0831			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	86		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0903			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	73		59 - 130
Tetrachloro-m-xylene	84		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 0935			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	76		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-65369	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/05/2011 1007			Injection Volume:	1 uL
Prep Date:	05/03/2011 2225			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	84		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	059B1201.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/04/2011 1554			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3700	J	1000	4000
C10-C28		790	J	690	4000

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	060B1301.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	05/04/2011 1627			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2700	J	1000	4100
C10-C28		700	U	700	4100

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	061B1401.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/04/2011 1659			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		15000		1000	4100
C10-C28		5300		700	4100

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	062B1501.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	05/04/2011 1732			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8000		1000	4100
C10-C28		1400	J	690	4100

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	063B1601.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/04/2011 1804			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		5100		1000	4100
C10-C28		1300	J	690	4100

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	064B1701.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	05/04/2011 1837			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2500	J	1000	4000
C10-C28		680	U	680	4000

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	065B1801.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	05/04/2011 1909			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		26000		1000	4000
C10-C28		5600		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	83		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	069B2201.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	05/04/2011 2119			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		9200		1000	4200
C10-C28		1700	J	700	4200

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	070B2301.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	05/04/2011 2152			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3900		980	3900
C10-C28		750	J	670	3900

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	071B2401.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	05/04/2011 2225			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		20000		990	4000
C10-C28		8900		670	4000

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	072B2501.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	05/04/2011 2257			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		12000		1000	4000
C10-C28		6100		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	86		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	073B2601.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	05/04/2011 2330			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		29000		980	3900
C10-C28		5500		670	3900

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	074B2701.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	05/05/2011 0002			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		2700	J	1000	4100
C10-C28		860	J	690	4100

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-65357	Lab File ID:	075B2801.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	05/05/2011 0035			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		4300		1000	4100
C10-C28		980	J	690	4100

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 1524			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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)	102		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 1554			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 1726			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		37		3.2	15
Benzo[a]pyrene		46		6.4	15
Benzo[b]fluoranthene		40		4.2	15
Benzo[g,h,i]perylene		37		7.2	30
Benzo[k]fluoranthene		17		4.0	15
Chrysene		45		4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		70		13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		40		12	30
Naphthalene		12	U	12	100
Phenanthrene		41		12	40
Pyrene		90		12	40

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 1756			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		30		3.2	15
Benzo[a]pyrene		25		6.4	15
Benzo[b]fluoranthene		18		4.2	15
Benzo[g,h,i]perylene		15	J	7.2	30
Benzo[k]fluoranthene		8.3	J	4.0	15
Chrysene		28	J	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		45		13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		18	J	12	30
Naphthalene		12	U	12	100
Phenanthrene		32	J	12	40
Pyrene		66		12	40

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 1827			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 1857			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		4.2	J X	3.2	15
Benzo[a]pyrene		8.2	J	6.4	15
Benzo[b]fluoranthene		11	J	4.2	15
Benzo[g,h,i]perylene		7.7	J	7.2	30
Benzo[k]fluoranthene		5.2	J	3.9	15
Chrysene		9.4	J	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)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 1958			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		13	J	3.2	15
Benzo[a]pyrene		28		6.4	15
Benzo[b]fluoranthene		18		4.2	15
Benzo[g,h,i]perylene		17	J	7.2	30
Benzo[k]fluoranthene		13	J	3.9	15
Chrysene		21	J	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		36	J	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		20	J	12	30
Naphthalene		12	U	12	100
Phenanthrene		14	J	12	40
Pyrene		29	J X	12	40

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 2029			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		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)	91		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 2100			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		24	X	3.2	15
Benzo[a]pyrene		28		6.3	15
Benzo[b]fluoranthene		20		4.1	15
Benzo[g,h,i]perylene		17	J	7.1	30
Benzo[k]fluoranthene		9.6	J	3.9	15
Chrysene		28	J	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		31	J	13	40
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		22	J	12	30
Naphthalene		12	U	12	99
Phenanthrene		18	J	12	40
Pyrene		44		12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	100		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 2130			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		6.7	J X	3.1	20
Benzo[a]anthracene		43	X	3.2	15
Benzo[a]pyrene		43		6.5	15
Benzo[b]fluoranthene		31		4.3	15
Benzo[g,h,i]perylene		22	J	7.3	30
Benzo[k]fluoranthene		13	J	4.0	15
Chrysene		41		4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		74		13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		18	J X	12	30
Naphthalene		12	U	12	100
Phenanthrene		73		12	40
Pyrene		110		12	40

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 2201			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		27	X	3.1	15
Benzo[a]pyrene		23		6.3	15
Benzo[b]fluoranthene		21		4.1	15
Benzo[g,h,i]perylene		14	J	7.0	29
Benzo[k]fluoranthene		15		3.8	15
Chrysene		36	J	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		66		13	39
Fluorene		6.7	J	5.2	29
Indeno[1,2,3-cd]pyrene		18	J	12	29
Naphthalene		18	J X	12	98
Phenanthrene		120		12	39
Pyrene		86		12	39

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 2231			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.9	U	8.9	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		96		3.1	15
Benzo[a]pyrene		88		6.3	15
Benzo[b]fluoranthene		75		4.1	15
Benzo[g,h,i]perylene		64		7.1	30
Benzo[k]fluoranthene		36		3.9	15
Chrysene		120		4.8	39
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		170		13	39
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		68		12	30
Naphthalene		12	U	12	98
Phenanthrene		130		12	39
Pyrene		230		12	39

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 2302			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			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		5.2	J X	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		5.5	J X	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	J	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		13	J	12	40

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/05/2011 2332			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		9.0	J	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK69**

Lab Sample ID: 280-15313-15
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 04/28/2011 0815
Date Received: 05/03/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-65403	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	05/06/2011 0003			Injection Volume:	20 uL
Prep Date:	05/03/2011 2220			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.5	U	9.5	95
Acenaphthylene		8.6	U	8.6	95
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	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		10	U	10	29
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	29
Indeno[1,2,3-cd]pyrene		11	U	11	29
Naphthalene		11	U	11	95
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	05/05/2011 1200			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9770	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		38.3		0.65	0.99
Barium		66.9	X	0.075	0.49
Beryllium		0.098	B	0.033	0.20
Boron		1.5	B	0.97	2.0
Cadmium		0.36		0.040	0.20
Calcium		3830	X	13.9	49.3
Chromium		13.9		0.057	0.20
Cobalt		7.5	X	0.099	0.99
Copper		16.8		0.21	0.99
Iron		19300	X	3.7	4.9
Lead		34.6	X	0.27	0.49
Magnesium		4480		3.6	19.7
Manganese		294	X	0.099	0.99
Molybdenum		0.37	B	0.26	2.0
Nickel		12.8		0.12	3.9
Potassium		1430		40.4	296
Selenium		0.85	U	0.85	0.99
Silicon		307	X N	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		208		58.1	118
Vanadium		38.7	X	0.093	2.0
Zinc		36.5	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/05/2011 2034			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B M	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid
% Moisture: 3.9

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2011 1209			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10300	X	1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		56.5		0.61	0.92
Barium		71.4	X	0.070	0.46
Beryllium		0.13	B	0.030	0.18
Boron		1.6	B	0.90	1.8
Cadmium		0.48		0.038	0.18
Calcium		3830	X	13.0	46.1
Chromium		14.1		0.053	0.18
Cobalt		9.4	X	0.092	0.92
Copper		17.7		0.20	0.92
Iron		20200	X	3.5	4.6
Lead		23.3	X	0.25	0.46
Magnesium		4550		3.4	18.4
Manganese		316	X	0.092	0.92
Molybdenum		0.36	B	0.24	1.8
Nickel		13.3		0.11	3.7
Potassium		1640		37.8	276
Selenium		0.79	U	0.79	0.92
Silicon		318	X	5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		185		54.3	111
Vanadium		38.8	X	0.087	1.8
Zinc		39.6	X	0.37	0.92

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/05/2011 2041			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0079	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	05/05/2011 1212			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10400	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		29.6		0.65	0.98
Barium		91.2	X	0.074	0.49
Beryllium		0.13	B	0.032	0.20
Boron		3.0		0.96	2.0
Cadmium		0.45		0.040	0.20
Calcium		4380	X	13.8	49.0
Chromium		13.3		0.057	0.20
Cobalt		7.3	X	0.098	0.98
Copper		15.0		0.21	0.98
Iron		20100	X	3.7	4.9
Lead		140	X	0.26	0.49
Magnesium		4160		3.6	19.6
Manganese		327	X	0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		12.0		0.12	3.9
Potassium		2440		40.2	294
Selenium		0.84	U	0.84	0.98
Silicon		339	X	5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		197		57.8	118
Vanadium		38.8	X	0.092	2.0
Zinc		61.0	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/05/2011 2043			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.013	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid
% Moisture: 2.7

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	05/05/2011 1214			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11100	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		15.0		0.65	0.98
Barium		95.1	X	0.074	0.49
Beryllium		0.14	B	0.032	0.20
Boron		3.5		0.96	2.0
Cadmium		0.27		0.040	0.20
Calcium		3710	X	13.8	48.9
Chromium		12.8		0.057	0.20
Cobalt		7.0	X	0.098	0.98
Copper		14.2		0.21	0.98
Iron		21100	X	3.7	4.9
Lead		144	X	0.26	0.49
Magnesium		4210		3.6	19.6
Manganese		348	X	0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		11.1		0.12	3.9
Potassium		2940		40.1	294
Selenium		0.84	U	0.84	0.98
Silicon		356	X	5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		200		57.7	117
Vanadium		40.7	X	0.092	2.0
Zinc		50.2	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	05/05/2011 2046			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid
% Moisture: 4.0

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	05/05/2011 1216			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11300	X	1.6	5.2
Antimony		0.40	U	0.40	0.62
Arsenic		14.4		0.69	1.0
Barium		90.7	X	0.079	0.52
Beryllium		0.16	B	0.034	0.21
Boron		2.6		1.0	2.1
Cadmium		0.22		0.043	0.21
Calcium		4350	X	14.7	52.1
Chromium		13.5		0.060	0.21
Cobalt		7.8	X	0.10	1.0
Copper		14.7		0.23	1.0
Iron		21000	X	4.0	5.2
Lead		21.4	X	0.28	0.52
Magnesium		4490		3.9	20.8
Manganese		342	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		12.6		0.13	4.2
Potassium		2510		42.7	312
Selenium		0.90	U	0.90	1.0
Silicon		484	X	5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		193		61.4	125
Vanadium		38.8	X	0.098	2.1
Zinc		48.8	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/05/2011 2048			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.012	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid
% Moisture: 3.3

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	05/05/2011 1228			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10600	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		8.7		0.68	1.0
Barium		88.0	X	0.078	0.51
Beryllium		0.15	B	0.034	0.20
Boron		2.6		1.0	2.0
Cadmium		0.23		0.042	0.20
Calcium		3970	X	14.4	51.2
Chromium		12.4		0.059	0.20
Cobalt		7.7	X	0.10	1.0
Copper		13.2		0.22	1.0
Iron		20500	X	3.9	5.1
Lead		6.7	X	0.28	0.51
Magnesium		4160		3.8	20.5
Manganese		328	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.0
Nickel		11.4		0.13	4.1
Potassium		2840		42.0	307
Selenium		0.88	U	0.88	1.0
Silicon		465	X	5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		179		60.4	123
Vanadium		37.8	X	0.096	2.0
Zinc		76.1	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/05/2011 2050			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	05/05/2011 1230			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7900	X	1.4	4.6
Antimony		0.35	U	0.35	0.56
Arsenic		64.2		0.61	0.93
Barium		69.8	X	0.070	0.46
Beryllium		0.081	B	0.031	0.19
Boron		1.4	B	0.91	1.9
Cadmium		0.66		0.038	0.19
Calcium		3650	X	13.1	46.3
Chromium		10.6		0.054	0.19
Cobalt		5.6	X	0.093	0.93
Copper		12.1		0.20	0.93
Iron		16300	X	3.5	4.6
Lead		641	X	0.25	0.46
Magnesium		3380		3.4	18.5
Manganese		278	X	0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		9.3		0.11	3.7
Potassium		1410		38.0	278
Selenium		0.80	U	0.80	0.93
Silicon		329	X	5.2	9.3
Silver		0.15	U	0.15	0.19
Sodium		235		54.6	111
Vanadium		34.3	X	0.087	1.9
Zinc		48.2	X	0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	05/05/2011 2057			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	05/05/2011 1233			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11300	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		8.9		0.66	1.0
Barium		92.2	X	0.076	0.50
Beryllium		0.16	B	0.033	0.20
Boron		2.5		0.98	2.0
Cadmium		0.21		0.041	0.20
Calcium		3930	X	14.2	50.2
Chromium		13.2		0.058	0.20
Cobalt		7.9	X	0.10	1.0
Copper		14.6		0.22	1.0
Iron		21300	X	3.8	5.0
Lead		27.4	X	0.27	0.50
Magnesium		4460		3.7	20.1
Manganese		342	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.9		0.12	4.0
Potassium		2590		41.2	301
Selenium		0.86	U	0.86	1.0
Silicon		537	X	5.7	10.0
Silver		0.16	U	0.16	0.20
Sodium		206		59.3	121
Vanadium		39.2	X	0.094	2.0
Zinc		46.7	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	05/05/2011 2059			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0091	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid
% Moisture: 1.1

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	05/05/2011 1235			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9250	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		65.9		0.60	0.90
Barium		405	X	0.069	0.45
Beryllium		0.10	B	0.030	0.18
Boron		2.0		0.88	1.8
Cadmium		0.69		0.037	0.18
Calcium		4350	X	12.7	45.1
Chromium		11.7		0.052	0.18
Cobalt		6.7	X	0.090	0.90
Copper		11.9		0.20	0.90
Iron		18400	X	3.4	4.5
Lead		123	X	0.24	0.45
Magnesium		3690		3.3	18.1
Manganese		291	X	0.090	0.90
Molybdenum		0.23	U	0.23	1.8
Nickel		11.1		0.11	3.6
Potassium		1730		37.0	271
Selenium		0.78	U	0.78	0.90
Silicon		288	X	5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		191		53.3	108
Vanadium		35.8	X	0.085	1.8
Zinc		94.8	X	0.36	0.90

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	05/05/2011 2102			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0087	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	05/05/2011 1237			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10000	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		68.3		0.66	1.0
Barium		69.8	X	0.076	0.50
Beryllium		0.11	B	0.033	0.20
Boron		1.9	B	0.98	2.0
Cadmium		0.59		0.041	0.20
Calcium		6920	X	14.1	50.1
Chromium		12.1		0.058	0.20
Cobalt		7.3	X	0.10	1.0
Copper		19.7		0.22	1.0
Iron		19600	X	3.8	5.0
Lead		112	X	0.27	0.50
Magnesium		4250		3.7	20.0
Manganese		297	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		13.0		0.12	4.0
Potassium		1620		41.1	301
Selenium		0.86	U	0.86	1.0
Silicon		278	X	5.7	10.0
Silver		0.16	U	0.16	0.20
Sodium		201		59.1	120
Vanadium		37.8	X	0.094	2.0
Zinc		44.3	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	05/05/2011 2104			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.055		0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	05/05/2011 1240			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6870	X	1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		62.4		0.60	0.91
Barium		41.0	X	0.069	0.45
Beryllium		0.042	B	0.030	0.18
Boron		1.0	B	0.89	1.8
Cadmium		0.51		0.037	0.18
Calcium		3380	X	12.8	45.3
Chromium		11.4		0.052	0.18
Cobalt		5.7	X	0.091	0.91
Copper		14.2		0.20	0.91
Iron		19700	X	3.4	4.5
Lead		114	X	0.24	0.45
Magnesium		3580		3.3	18.1
Manganese		223	X	0.091	0.91
Molybdenum		0.24	U	0.24	1.8
Nickel		11.2		0.11	3.6
Potassium		921		37.1	272
Selenium		0.78	U	0.78	0.91
Silicon		208	X	5.1	9.1
Silver		0.14	U	0.14	0.18
Sodium		221		53.4	109
Vanadium		32.7	X	0.085	1.8
Zinc		31.5	X	0.36	0.91

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	05/05/2011 2106			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.015		0.0048	0.015

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	05/05/2011 1242			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8820	X	1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		26.0		0.66	1.0
Barium		106	X	0.076	0.50
Beryllium		0.12	B	0.033	0.20
Boron		3.5		0.98	2.0
Cadmium		0.58		0.041	0.20
Calcium		4330	X	14.0	49.8
Chromium		13.4		0.058	0.20
Cobalt		6.3	X	0.10	1.0
Copper		17.0		0.22	1.0
Iron		17300	X	3.8	5.0
Lead		408	X	0.27	0.50
Magnesium		3620		3.7	19.9
Manganese		304	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.4		0.12	4.0
Potassium		1690		40.8	299
Selenium		0.86	U	0.86	1.0
Silicon		400	X	5.6	10
Silver		0.16	U	0.16	0.20
Sodium		252		58.8	120
Vanadium		34.7	X	0.094	2.0
Zinc		78.7	X	0.40	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	05/05/2011 2109			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	05/05/2011 1244			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9820	X	1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		20.0		0.65	0.99
Barium		78.8	X	0.075	0.49
Beryllium		0.13	B	0.033	0.20
Boron		1.7	B	0.97	2.0
Cadmium		0.26		0.041	0.20
Calcium		3640	X	14.0	49.5
Chromium		12.2		0.057	0.20
Cobalt		7.3	X	0.099	0.99
Copper		12.5		0.21	0.99
Iron		19400	X	3.8	4.9
Lead		8.6	X	0.27	0.49
Magnesium		3980		3.7	19.8
Manganese		301	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		11.5		0.12	4.0
Potassium		2020		40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		312	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		179		58.4	119
Vanadium		37.0	X	0.093	2.0
Zinc		39.2	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	05/05/2011 2111			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid
% Moisture: 3.2

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	05/05/2011 1247			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9440	X	1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		39.8		0.63	0.95
Barium		67.0	X	0.072	0.47
Beryllium		0.11	B	0.031	0.19
Boron		1.3	B	0.93	1.9
Cadmium		0.35		0.039	0.19
Calcium		3760	X	13.4	47.4
Chromium		12.5		0.055	0.19
Cobalt		7.5	X	0.095	0.95
Copper		16.3		0.21	0.95
Iron		19300	X	3.6	4.7
Lead		34.1	X	0.26	0.47
Magnesium		4280		3.5	19.0
Manganese		296	X	0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		12.6		0.12	3.8
Potassium		1420		38.9	284
Selenium		0.82	U	0.82	0.95
Silicon		282	X	5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		176		55.9	114
Vanadium		37.4	X	0.089	1.9
Zinc		36.0	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/05/2011 2113			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0073	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Client Sample ID: **J1HK69**

Lab Sample ID: 280-15313-15
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 04/28/2011 0815
Date Received: 05/03/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65936	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	05/05/2011 1249			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		208	X	1.3	4.2
Antimony		0.32	U	0.32	0.50
Arsenic		0.55	U	0.55	0.84
Barium		2.3	X	0.064	0.42
Beryllium		0.070	B	0.028	0.17
Boron		0.82	U	0.82	1.7
Cadmium		0.034	U	0.034	0.17
Calcium		47.6	X	11.8	42.0
Chromium		0.13	B	0.049	0.17
Cobalt		0.22	B X	0.084	0.84
Copper		0.18	B	0.18	0.84
Iron		1220	X	3.2	4.2
Lead		0.55	X	0.23	0.42
Magnesium		27.0		3.1	16.8
Manganese		17.0	X	0.084	0.84
Molybdenum		0.22	U	0.22	1.7
Nickel		0.35	B	0.10	3.4
Potassium		57.0	B	34.5	252
Selenium		0.72	U	0.72	0.84
Silicon		113	X	4.8	8.4
Silver		0.13	U	0.13	0.17
Sodium		49.6	U	49.6	101
Vanadium		0.62	B X	0.079	1.7
Zinc		3.0	X	0.33	0.84

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	05/05/2011 2116			Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK55**

Lab Sample ID: 280-15313-1
Client Matrix: Solid

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.3	M	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK56**

Lab Sample ID: 280-15313-2
Client Matrix: Solid

Date Sampled: 04/28/2011 1025
Date Received: 05/03/2011 0930

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

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK57**

Lab Sample ID: 280-15313-3
Client Matrix: Solid

Date Sampled: 04/28/2011 0945
Date Received: 05/03/2011 0930

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

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK58**

Lab Sample ID: 280-15313-4
Client Matrix: Solid

Date Sampled: 04/28/2011 0950
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK59**

Lab Sample ID: 280-15313-5
Client Matrix: Solid

Date Sampled: 04/28/2011 0935
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK60**

Lab Sample ID: 280-15313-6
Client Matrix: Solid

Date Sampled: 04/28/2011 1005
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK61**

Lab Sample ID: 280-15313-7
Client Matrix: Solid

Date Sampled: 04/28/2011 1230
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.89		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK62**

Lab Sample ID: 280-15313-8
Client Matrix: Solid

Date Sampled: 04/28/2011 0915
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK63**

Lab Sample ID: 280-15313-9
Client Matrix: Solid

Date Sampled: 04/28/2011 1310
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK64**

Lab Sample ID: 280-15313-10
Client Matrix: Solid

Date Sampled: 04/28/2011 1320
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK65**

Lab Sample ID: 280-15313-11
Client Matrix: Solid

Date Sampled: 04/28/2011 1250
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.46		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK66**

Lab Sample ID: 280-15313-12
Client Matrix: Solid

Date Sampled: 04/28/2011 1300
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK67**

Lab Sample ID: 280-15313-13
Client Matrix: Solid

Date Sampled: 04/28/2011 0850
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK68**

Lab Sample ID: 280-15313-14
Client Matrix: Solid

Date Sampled: 04/28/2011 1035
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HK69**

Lab Sample ID: 280-15313-15
Client Matrix: Solid

Date Sampled: 04/28/2011 0815
Date Received: 05/03/2011 0930

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

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

General Chemistry

Client Sample ID: **J1HKF7**

Lab Sample ID: 280-15313-16
Client Matrix: Solid

Date Sampled: 04/28/2011 0835
Date Received: 05/03/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.12		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-65382 Analysis Date: 05/03/2011 1431 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-65334					
LCS 280-65334/3-A	Lab Control Sample	T	Solid	5035	
LCSD 280-65334/4-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 280-65334/1-A	Method Blank	T	Solid	5035	
280-15313-1	J1HK55	T	Solid	5035	
280-15313-2	J1HK56	T	Solid	5035	
280-15313-3	J1HK57	T	Solid	5035	
280-15313-3MS	Matrix Spike	T	Solid	5035	
280-15313-3MSD	Matrix Spike Duplicate	T	Solid	5035	
280-15313-4	J1HK58	T	Solid	5035	
280-15313-5	J1HK59	T	Solid	5035	
280-15313-6	J1HK60	T	Solid	5035	
280-15313-7	J1HK61	T	Solid	5035	
280-15313-8	J1HK62	T	Solid	5035	
280-15313-9	J1HK63	T	Solid	5035	
280-15313-9MS	Matrix Spike	T	Solid	5035	
280-15313-9MSD	Matrix Spike Duplicate	T	Solid	5035	
280-15313-10	J1HK64	T	Solid	5035	
280-15313-11	J1HK65	T	Solid	5035	
280-15313-12	J1HK66	T	Solid	5035	
280-15313-13	J1HK67	T	Solid	5035	
280-15313-14	J1HK68	T	Solid	5035	
280-15313-16	J1HKF7	T	Solid	5035	
Analysis Batch:280-65699					
LCS 280-65334/3-A	Lab Control Sample	T	Solid	8260B	280-65334
LCSD 280-65334/4-A	Lab Control Sample Duplicate	T	Solid	8260B	280-65334
MB 280-65334/1-A	Method Blank	T	Solid	8260B	280-65334
280-15313-1	J1HK55	T	Solid	8260B	280-65334
280-15313-2	J1HK56	T	Solid	8260B	280-65334
280-15313-3	J1HK57	T	Solid	8260B	280-65334
280-15313-3MS	Matrix Spike	T	Solid	8260B	280-65334
280-15313-3MSD	Matrix Spike Duplicate	T	Solid	8260B	280-65334
280-15313-4	J1HK58	T	Solid	8260B	280-65334
280-15313-5	J1HK59	T	Solid	8260B	280-65334
280-15313-6	J1HK60	T	Solid	8260B	280-65334
280-15313-7	J1HK61	T	Solid	8260B	280-65334
280-15313-8	J1HK62	T	Solid	8260B	280-65334
280-15313-10	J1HK64	T	Solid	8260B	280-65334
280-15313-11	J1HK65	T	Solid	8260B	280-65334
280-15313-12	J1HK66	T	Solid	8260B	280-65334
280-15313-13	J1HK67	T	Solid	8260B	280-65334
280-15313-14	J1HK68	T	Solid	8260B	280-65334
280-15313-16	J1HKF7	T	Solid	8260B	280-65334

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-66298					
MB 280-66298/6	Method Blank	T	Solid	8260B	
LCS 280-65334/3-A	Lab Control Sample	T	Solid	8260B	280-65334
280-15313-9	J1HK63	T	Solid	8260B	280-65334
280-15313-9MS	Matrix Spike	T	Solid	8260B	280-65334
280-15313-9MSD	Matrix Spike Duplicate	T	Solid	8260B	280-65334

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-65357					
LCS 280-65357/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-65357/1-A	Method Blank	T	Solid	3550C	
280-15313-1	J1HK55	T	Solid	3550C	
280-15313-2	J1HK56	T	Solid	3550C	
280-15313-3	J1HK57	T	Solid	3550C	
280-15313-4	J1HK58	T	Solid	3550C	
280-15313-5	J1HK59	T	Solid	3550C	
280-15313-6	J1HK60	T	Solid	3550C	
280-15313-7	J1HK61	T	Solid	3550C	
280-15313-7MS	Matrix Spike	T	Solid	3550C	
280-15313-7MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15313-8	J1HK62	T	Solid	3550C	
280-15313-9	J1HK63	T	Solid	3550C	
280-15313-10	J1HK64	T	Solid	3550C	
280-15313-11	J1HK65	T	Solid	3550C	
280-15313-12	J1HK66	T	Solid	3550C	
280-15313-13	J1HK67	T	Solid	3550C	
280-15313-14	J1HK68	T	Solid	3550C	
280-15313-14MS	Matrix Spike	T	Solid	3550C	
280-15313-14MSD	Matrix Spike Duplicate	T	Solid	3550C	
Prep Batch: 280-65369					
LCS 280-65369/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-65369/1-A	Method Blank	T	Solid	3550C	
280-15313-1	J1HK55	T	Solid	3550C	
280-15313-1MS	Matrix Spike	T	Solid	3550C	
280-15313-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15313-2	J1HK56	T	Solid	3550C	
280-15313-3	J1HK57	T	Solid	3550C	
280-15313-4	J1HK58	T	Solid	3550C	
280-15313-5	J1HK59	T	Solid	3550C	
280-15313-6	J1HK60	T	Solid	3550C	
280-15313-7	J1HK61	T	Solid	3550C	
280-15313-8	J1HK62	T	Solid	3550C	
280-15313-9	J1HK63	T	Solid	3550C	
280-15313-10	J1HK64	T	Solid	3550C	
280-15313-11	J1HK65	T	Solid	3550C	
280-15313-12	J1HK66	T	Solid	3550C	
280-15313-13	J1HK67	T	Solid	3550C	
280-15313-14	J1HK68	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-65376					
LCS 280-65376/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-65376/1-A	Method Blank	T	Solid	3550C	
280-15313-1	J1HK55	T	Solid	3550C	
280-15313-2	J1HK56	T	Solid	3550C	
280-15313-3	J1HK57	T	Solid	3550C	
280-15313-4	J1HK58	T	Solid	3550C	
280-15313-5	J1HK59	T	Solid	3550C	
280-15313-6	J1HK60	T	Solid	3550C	
280-15313-7	J1HK61	T	Solid	3550C	
280-15313-8	J1HK62	T	Solid	3550C	
280-15313-9	J1HK63	T	Solid	3550C	
280-15313-10	J1HK64	T	Solid	3550C	
280-15313-11	J1HK65	T	Solid	3550C	
280-15313-11MS	Matrix Spike	T	Solid	3550C	
280-15313-11MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15313-12	J1HK66	T	Solid	3550C	
280-15313-13	J1HK67	T	Solid	3550C	
280-15313-14	J1HK68	T	Solid	3550C	
Analysis Batch:280-65701					
LCS 280-65369/2-A	Lab Control Sample	T	Solid	8082	280-65369
MB 280-65369/1-A	Method Blank	T	Solid	8082	280-65369
280-15313-1	J1HK55	T	Solid	8082	280-65369
280-15313-1MS	Matrix Spike	T	Solid	8082	280-65369
280-15313-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-65369
280-15313-2	J1HK56	T	Solid	8082	280-65369
280-15313-3	J1HK57	T	Solid	8082	280-65369
280-15313-4	J1HK58	T	Solid	8082	280-65369
280-15313-5	J1HK59	T	Solid	8082	280-65369
280-15313-6	J1HK60	T	Solid	8082	280-65369
280-15313-7	J1HK61	T	Solid	8082	280-65369
280-15313-8	J1HK62	T	Solid	8082	280-65369
280-15313-9	J1HK63	T	Solid	8082	280-65369
280-15313-10	J1HK64	T	Solid	8082	280-65369
280-15313-11	J1HK65	T	Solid	8082	280-65369
280-15313-12	J1HK66	T	Solid	8082	280-65369
280-15313-13	J1HK67	T	Solid	8082	280-65369
280-15313-14	J1HK68	T	Solid	8082	280-65369

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-65948					
LCS 280-65376/2-A	Lab Control Sample	T	Solid	8081A	280-65376
MB 280-65376/1-A	Method Blank	T	Solid	8081A	280-65376
280-15313-1	J1HK55	T	Solid	8081A	280-65376
280-15313-2	J1HK56	T	Solid	8081A	280-65376
280-15313-3	J1HK57	T	Solid	8081A	280-65376
280-15313-4	J1HK58	T	Solid	8081A	280-65376
280-15313-5	J1HK59	T	Solid	8081A	280-65376
280-15313-6	J1HK60	T	Solid	8081A	280-65376
280-15313-7	J1HK61	T	Solid	8081A	280-65376
280-15313-8	J1HK62	T	Solid	8081A	280-65376
280-15313-9	J1HK63	T	Solid	8081A	280-65376
280-15313-10	J1HK64	T	Solid	8081A	280-65376
280-15313-11	J1HK65	T	Solid	8081A	280-65376
280-15313-11MS	Matrix Spike	T	Solid	8081A	280-65376
280-15313-11MSD	Matrix Spike Duplicate	T	Solid	8081A	280-65376
280-15313-12	J1HK66	T	Solid	8081A	280-65376
280-15313-13	J1HK67	T	Solid	8081A	280-65376
280-15313-14	J1HK68	T	Solid	8081A	280-65376
Analysis Batch:280-65965					
LCS 280-65357/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-65357
MB 280-65357/1-A	Method Blank	T	Solid	NWTPH-Dx	280-65357
280-15313-1	J1HK55	T	Solid	NWTPH-Dx	280-65357
280-15313-2	J1HK56	T	Solid	NWTPH-Dx	280-65357
280-15313-3	J1HK57	T	Solid	NWTPH-Dx	280-65357
280-15313-4	J1HK58	T	Solid	NWTPH-Dx	280-65357
280-15313-5	J1HK59	T	Solid	NWTPH-Dx	280-65357
280-15313-6	J1HK60	T	Solid	NWTPH-Dx	280-65357
280-15313-7	J1HK61	T	Solid	NWTPH-Dx	280-65357
280-15313-7MS	Matrix Spike	T	Solid	NWTPH-Dx	280-65357
280-15313-7MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-65357
280-15313-8	J1HK62	T	Solid	NWTPH-Dx	280-65357
280-15313-9	J1HK63	T	Solid	NWTPH-Dx	280-65357
280-15313-10	J1HK64	T	Solid	NWTPH-Dx	280-65357
280-15313-11	J1HK65	T	Solid	NWTPH-Dx	280-65357
280-15313-12	J1HK66	T	Solid	NWTPH-Dx	280-65357
280-15313-13	J1HK67	T	Solid	NWTPH-Dx	280-65357
280-15313-14	J1HK68	T	Solid	NWTPH-Dx	280-65357
280-15313-14MS	Matrix Spike	T	Solid	NWTPH-Dx	280-65357
280-15313-14MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-65357

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-65377					
LCS 280-65377/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-65377/1-A	Method Blank	T	Solid	3050B	
280-15313-1	J1HK55	T	Solid	3050B	
280-15313-1DU	Duplicate	T	Solid	3050B	
280-15313-1MS	Matrix Spike	T	Solid	3050B	
280-15313-2	J1HK56	T	Solid	3050B	
280-15313-3	J1HK57	T	Solid	3050B	
280-15313-4	J1HK58	T	Solid	3050B	
280-15313-5	J1HK59	T	Solid	3050B	
280-15313-6	J1HK60	T	Solid	3050B	
280-15313-7	J1HK61	T	Solid	3050B	
280-15313-8	J1HK62	T	Solid	3050B	
280-15313-9	J1HK63	T	Solid	3050B	
280-15313-10	J1HK64	T	Solid	3050B	
280-15313-11	J1HK65	T	Solid	3050B	
280-15313-12	J1HK66	T	Solid	3050B	
280-15313-13	J1HK67	T	Solid	3050B	
280-15313-14	J1HK68	T	Solid	3050B	
280-15313-15	J1HK69	T	Solid	3050B	
Prep Batch: 280-65519					
LCS 280-65519/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-65519/1-A	Method Blank	T	Solid	7471A	
280-15313-1	J1HK55	T	Solid	7471A	
280-15313-1DU	Duplicate	T	Solid	7471A	
280-15313-1MS	Matrix Spike	T	Solid	7471A	
280-15313-2	J1HK56	T	Solid	7471A	
280-15313-3	J1HK57	T	Solid	7471A	
280-15313-4	J1HK58	T	Solid	7471A	
280-15313-5	J1HK59	T	Solid	7471A	
280-15313-6	J1HK60	T	Solid	7471A	
280-15313-7	J1HK61	T	Solid	7471A	
280-15313-8	J1HK62	T	Solid	7471A	
280-15313-9	J1HK63	T	Solid	7471A	
280-15313-10	J1HK64	T	Solid	7471A	
280-15313-11	J1HK65	T	Solid	7471A	
280-15313-12	J1HK66	T	Solid	7471A	
280-15313-13	J1HK67	T	Solid	7471A	
280-15313-14	J1HK68	T	Solid	7471A	
280-15313-15	J1HK69	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-65930					
LCS 280-65519/2-A	Lab Control Sample	T	Solid	7471A	280-65519
MB 280-65519/1-A	Method Blank	T	Solid	7471A	280-65519
280-15313-1	J1HK55	T	Solid	7471A	280-65519
280-15313-1DU	Duplicate	T	Solid	7471A	280-65519
280-15313-1MS	Matrix Spike	T	Solid	7471A	280-65519
280-15313-2	J1HK56	T	Solid	7471A	280-65519
280-15313-3	J1HK57	T	Solid	7471A	280-65519
280-15313-4	J1HK58	T	Solid	7471A	280-65519
280-15313-5	J1HK59	T	Solid	7471A	280-65519
280-15313-6	J1HK60	T	Solid	7471A	280-65519
280-15313-7	J1HK61	T	Solid	7471A	280-65519
280-15313-8	J1HK62	T	Solid	7471A	280-65519
280-15313-9	J1HK63	T	Solid	7471A	280-65519
280-15313-10	J1HK64	T	Solid	7471A	280-65519
280-15313-11	J1HK65	T	Solid	7471A	280-65519
280-15313-12	J1HK66	T	Solid	7471A	280-65519
280-15313-13	J1HK67	T	Solid	7471A	280-65519
280-15313-14	J1HK68	T	Solid	7471A	280-65519
280-15313-15	J1HK69	T	Solid	7471A	280-65519
Analysis Batch:280-65936					
LCS 280-65377/2-A	Lab Control Sample	T	Solid	6010B	280-65377
MB 280-65377/1-A	Method Blank	T	Solid	6010B	280-65377
280-15313-1	J1HK55	T	Solid	6010B	280-65377
280-15313-1DU	Duplicate	T	Solid	6010B	280-65377
280-15313-1MS	Matrix Spike	T	Solid	6010B	280-65377
280-15313-2	J1HK56	T	Solid	6010B	280-65377
280-15313-3	J1HK57	T	Solid	6010B	280-65377
280-15313-4	J1HK58	T	Solid	6010B	280-65377
280-15313-5	J1HK59	T	Solid	6010B	280-65377
280-15313-6	J1HK60	T	Solid	6010B	280-65377
280-15313-7	J1HK61	T	Solid	6010B	280-65377
280-15313-8	J1HK62	T	Solid	6010B	280-65377
280-15313-9	J1HK63	T	Solid	6010B	280-65377
280-15313-10	J1HK64	T	Solid	6010B	280-65377
280-15313-11	J1HK65	T	Solid	6010B	280-65377
280-15313-12	J1HK66	T	Solid	6010B	280-65377
280-15313-13	J1HK67	T	Solid	6010B	280-65377
280-15313-14	J1HK68	T	Solid	6010B	280-65377
280-15313-15	J1HK69	T	Solid	6010B	280-65377

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-65382					
280-15313-1	J1HK55	T	Solid	D-2216	
280-15313-1DU	Duplicate	T	Solid	D-2216	
280-15313-2	J1HK56	T	Solid	D-2216	
280-15313-3	J1HK57	T	Solid	D-2216	
280-15313-4	J1HK58	T	Solid	D-2216	
280-15313-5	J1HK59	T	Solid	D-2216	
280-15313-6	J1HK60	T	Solid	D-2216	
280-15313-7	J1HK61	T	Solid	D-2216	
280-15313-8	J1HK62	T	Solid	D-2216	
280-15313-9	J1HK63	T	Solid	D-2216	
280-15313-10	J1HK64	T	Solid	D-2216	
280-15313-11	J1HK65	T	Solid	D-2216	
280-15313-12	J1HK66	T	Solid	D-2216	
280-15313-13	J1HK67	T	Solid	D-2216	
280-15313-14	J1HK68	T	Solid	D-2216	
280-15313-15	J1HK69	T	Solid	D-2216	
280-15313-16	J1HKF7	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-65403					
LCS 280-65403/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-65403/1-A	Method Blank	T	Solid	3550C	
280-15313-1	J1HK55	T	Solid	3550C	
280-15313-2	J1HK56	T	Solid	3550C	
280-15313-2MS	Matrix Spike	T	Solid	3550C	
280-15313-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15313-3	J1HK57	T	Solid	3550C	
280-15313-4	J1HK58	T	Solid	3550C	
280-15313-5	J1HK59	T	Solid	3550C	
280-15313-6	J1HK60	T	Solid	3550C	
280-15313-7	J1HK61	T	Solid	3550C	
280-15313-8	J1HK62	T	Solid	3550C	
280-15313-9	J1HK63	T	Solid	3550C	
280-15313-10	J1HK64	T	Solid	3550C	
280-15313-11	J1HK65	T	Solid	3550C	
280-15313-12	J1HK66	T	Solid	3550C	
280-15313-13	J1HK67	T	Solid	3550C	
280-15313-14	J1HK68	T	Solid	3550C	
280-15313-15	J1HK69	T	Solid	3550C	
Analysis Batch:280-65746					
LCS 280-65403/2-A	Lab Control Sample	T	Solid	8310	280-65403
MB 280-65403/1-A	Method Blank	T	Solid	8310	280-65403
280-15313-1	J1HK55	T	Solid	8310	280-65403
280-15313-2	J1HK56	T	Solid	8310	280-65403
280-15313-2MS	Matrix Spike	T	Solid	8310	280-65403
280-15313-2MSD	Matrix Spike Duplicate	T	Solid	8310	280-65403
280-15313-3	J1HK57	T	Solid	8310	280-65403
280-15313-4	J1HK58	T	Solid	8310	280-65403
280-15313-5	J1HK59	T	Solid	8310	280-65403
280-15313-6	J1HK60	T	Solid	8310	280-65403
280-15313-7	J1HK61	T	Solid	8310	280-65403
280-15313-8	J1HK62	T	Solid	8310	280-65403
280-15313-9	J1HK63	T	Solid	8310	280-65403
280-15313-10	J1HK64	T	Solid	8310	280-65403
280-15313-11	J1HK65	T	Solid	8310	280-65403
280-15313-12	J1HK66	T	Solid	8310	280-65403
280-15313-13	J1HK67	T	Solid	8310	280-65403
280-15313-14	J1HK68	T	Solid	8310	280-65403
280-15313-15	J1HK69	T	Solid	8310	280-65403

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-65334

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 280-65334/1-A	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	G2_3951.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.029 g
Analysis Date:	05/04/2011 0948	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	5.3	U	5.3	20
Benzene	0.47	U	0.47	5.0
Bromodichloromethane	0.22	U	0.22	5.0
Bromoform	0.23	U	0.23	5.0
Bromomethane	0.50	U	0.50	9.9
2-Butanone (MEK)	1.8	U	1.8	9.9
Carbon disulfide	0.607	J	0.42	5.0
Carbon tetrachloride	0.63	U	0.63	5.0
Chlorobenzene	0.54	U	0.54	5.0
Dibromochloromethane	0.57	U	0.57	5.0
Chloroethane	0.88	U	0.88	9.9
Chloroform	0.29	U	0.29	5.0
Chloromethane	0.77	U	0.77	9.9
1,3-Dichlorobenzene	0.48	U	0.48	5.0
1,1-Dichloroethane	0.21	U	0.21	5.0
1,2-Dichloroethane	0.70	U	0.70	5.0
trans-1,2-Dichloroethene	0.39	U	0.39	2.5
1,1-Dichloroethene	0.59	U	0.59	5.0
1,2-Dichloroethene, Total	0.39	U	0.39	5.0
1,2-Dichloropropane	0.55	U	0.55	5.0
cis-1,3-Dichloropropene	1.3	U	1.3	5.0
trans-1,3-Dichloropropene	0.67	U	0.67	5.0
Ethylbenzene	0.67	U	0.67	5.0
2-Hexanone	4.9	U	4.9	20
Methylene Chloride	1.52	J	0.75	5.0
4-Methyl-2-pentanone (MIBK)	4.3	U	4.3	9.9
Styrene	0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane	0.61	U	0.61	5.0
Tetrachloroethene	0.59	U	0.59	5.0
Toluene	0.69	U	0.69	5.0
1,1,1-Trichloroethane	0.52	U	0.52	5.0
1,1,2-Trichloroethane	0.87	U	0.87	5.0
Trichloroethene	0.23	U	0.23	5.0
Vinyl chloride	1.3	U	1.3	5.0
Xylenes, Total	0.61	U	0.61	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	58 - 140
Toluene-d8 (Surr)	109	80 - 126
4-Bromofluorobenzene (Surr)	111	76 - 127
Dibromofluoromethane (Surr)	106	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank TICs- Batch: 280-65334

Cas Number	Analyte	RT	Est. Result	Qual
	Unknown	3.79	ND	J N

Lab Control Sample - Batch: 280-65334

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-65334/3-A	Analysis Batch:	280-66298	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	J6362.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/05/2011 1104	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	54.0	108	76 - 120	
Bromodichloromethane	50.0	47.8	96	74 - 125	
Carbon tetrachloride	50.0	51.2	102	69 - 147	
Chlorobenzene	50.0	54.8	110	74 - 120	
Chloroform	50.0	49.6	99	77 - 125	
1,3-Dichlorobenzene	50.0	54.2	108	74 - 120	
1,1-Dichloroethane	50.0	50.0	100	74 - 120	
trans-1,2-Dichloroethene	50.0	57.9	116	80 - 127	
1,1-Dichloroethene	50.0	60.0	120	77 - 143	
1,2-Dichloropropane	50.0	48.6	97	74 - 120	
Ethylbenzene	50.0	58.6	117	78 - 120	
Methylene Chloride	50.0	52.7	105	76 - 137	
Tetrachloroethene	50.0	61.2	122	71 - 120	T
Toluene	50.0	54.2	108	72 - 120	
1,1,1-Trichloroethane	50.0	50.8	102	67 - 143	
Trichloroethene	50.0	55.1	110	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82	58 - 140
Toluene-d8 (Surr)	117	80 - 126
4-Bromofluorobenzene (Surr)	97	76 - 127
Dibromofluoromethane (Surr)	93	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-65334

Method: 8260B
Preparation: 5035

LCS Lab Sample ID:	LCS 280-65334/3-A	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	G2_3948.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/04/2011 0804	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-65334/4-A	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	G2_3949.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/04/2011 0823	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	101	101	76 - 120	0	20		
Bromodichloromethane	105	105	74 - 125	1	20		
Carbon tetrachloride	104	106	69 - 147	3	20		
Chlorobenzene	101	100	74 - 120	1	20		
Chloroform	103	103	77 - 125	0	20		
1,3-Dichlorobenzene	104	103	74 - 120	1	20		
1,1-Dichloroethane	106	106	74 - 120	0	20		
trans-1,2-Dichloroethene	105	103	80 - 127	2	20		
1,1-Dichloroethene	104	105	77 - 143	1	20		
1,2-Dichloropropane	104	102	74 - 120	1	20		
Ethylbenzene	103	101	78 - 120	1	20		
Methylene Chloride	123	110	76 - 137	11	21		
Tetrachloroethene	104	103	71 - 120	1	20		
Toluene	101	100	72 - 120	1	20		
1,1,1-Trichloroethane	101	104	67 - 143	2	20		
Trichloroethene	100	99	78 - 120	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	99	58 - 140
Toluene-d8 (Surr)	110	109	80 - 126
4-Bromofluorobenzene (Surr)	114	112	76 - 127
Dibromofluoromethane (Surr)	106	105	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65334

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-15313-3	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	G2_3955.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.51 g
Analysis Date:	05/04/2011 1105			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

MSD Lab Sample ID:	280-15313-3	Analysis Batch:	280-65699	Instrument ID:	MSV_G2
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	G2_3956.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.627 g
Analysis Date:	05/04/2011 1125			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	97	99	76 - 120	0	20		
Bromodichloromethane	102	103	74 - 125	1	20		
Carbon tetrachloride	101	104	69 - 147	1	20		
Chlorobenzene	94	96	74 - 120	0	20		
Chloroform	100	103	77 - 125	0	20		
1,3-Dichlorobenzene	95	96	74 - 120	2	20		
1,1-Dichloroethane	100	103	74 - 120	0	20		
trans-1,2-Dichloroethene	97	99	80 - 127	1	20		
1,1-Dichloroethene	98	102	77 - 143	1	20		
1,2-Dichloropropane	98	100	74 - 120	0	20		
Ethylbenzene	97	100	78 - 120	1	20		
Methylene Chloride	103	108	76 - 137	3	21		
Tetrachloroethene	97	101	71 - 120	2	20		
Toluene	95	97	72 - 120	0	20		
1,1,1-Trichloroethane	99	102	67 - 143	1	20		
Trichloroethene	94	95	78 - 120	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	103	58 - 140
Toluene-d8 (Surr)	111	115	80 - 126
4-Bromofluorobenzene (Surr)	120	125	76 - 127
Dibromofluoromethane (Surr)	107	109	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65334

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-15313-9	Analysis Batch:	280-66298	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	J6376.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.249 g
Analysis Date:	05/05/2011 1721			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

MSD Lab Sample ID:	280-15313-9	Analysis Batch:	280-66298	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-65334	Lab File ID:	J6377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.265 g
Analysis Date:	05/05/2011 1744			Final Weight/Volume:	5 mL
Prep Date:	05/03/2011 1208				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	102	74	76 - 120	53	20		T *
Bromodichloromethane	88	71	74 - 125	43	20		T *
Carbon tetrachloride	103	66	69 - 147	63	20		T *
Chlorobenzene	103	74	74 - 120	54	20		*
Chloroform	94	70	77 - 125	49	20		T *
1,3-Dichlorobenzene	96	60	74 - 120	67	20		T *
1,1-Dichloroethane	96	69	74 - 120	53	20		T *
trans-1,2-Dichloroethene	115	77	80 - 127	59	20		T *
1,1-Dichloroethene	115	78	77 - 143	58	20		*
1,2-Dichloropropane	94	74	74 - 120	45	20		*
Ethylbenzene	109	73	78 - 120	60	20		T *
Methylene Chloride	101	78	76 - 137	47	21		*
Tetrachloroethene	108	69	71 - 120	64	20		T *
Toluene	103	74	72 - 120	53	20		*
1,1,1-Trichloroethane	116	67	67 - 143	73	20		*
Trichloroethene	108	73	78 - 120	59	20		T *

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	87	58 - 140
Toluene-d8 (Surr)	124	112	80 - 126
4-Bromofluorobenzene (Surr)	106	96	76 - 127
Dibromofluoromethane (Surr)	106	100	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-66298

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 280-66298/6	Analysis Batch:	280-66298	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	J6374.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	05/05/2011 1635	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	5.4	U	5.4	20
Benzene	0.47	U	0.47	5.0
Bromodichloromethane	0.22	U	0.22	5.0
Bromoform	0.23	U	0.23	5.0
Bromomethane	0.50	U	0.50	10
2-Butanone (MEK)	1.8	U	1.8	10
Carbon disulfide	0.791	J	0.42	5.0
Carbon tetrachloride	0.63	U	0.63	5.0
Chlorobenzene	0.54	U	0.54	5.0
Dibromochloromethane	0.57	U	0.57	5.0
Chloroethane	0.89	U	0.89	10
Chloroform	0.29	U	0.29	5.0
Chloromethane	0.77	U	0.77	10
1,3-Dichlorobenzene	0.48	U	0.48	5.0
1,1-Dichloroethane	0.21	U	0.21	5.0
1,2-Dichloroethane	0.70	U	0.70	5.0
trans-1,2-Dichloroethene	0.39	U	0.39	2.5
1,1-Dichloroethene	0.59	U	0.59	5.0
1,2-Dichloroethene, Total	0.39	U	0.39	5.0
1,2-Dichloropropane	0.55	U	0.55	5.0
cis-1,3-Dichloropropene	1.3	U	1.3	5.0
trans-1,3-Dichloropropene	0.67	U	0.67	5.0
Ethylbenzene	0.67	U	0.67	5.0
2-Hexanone	4.9	U	4.9	20
Methylene Chloride	0.75	U	0.75	5.0
4-Methyl-2-pentanone (MIBK)	4.4	U	4.4	10
Styrene	0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane	0.61	U	0.61	5.0
Tetrachloroethene	0.59	U	0.59	5.0
Toluene	0.69	U	0.69	5.0
1,1,1-Trichloroethane	0.52	U	0.52	5.0
1,1,2-Trichloroethane	0.88	U	0.88	5.0
Trichloroethene	0.23	U	0.23	5.0
Vinyl chloride	1.3	U	1.3	5.0
Xylenes, Total	0.61	U	0.61	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81	58 - 140
Toluene-d8 (Surr)	105	80 - 126
4-Bromofluorobenzene (Surr)	100	76 - 127
Dibromofluoromethane (Surr)	99	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank TICs- Batch: 280-66298

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-65376

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-65376/1-A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65376	Lab File ID:	029F2901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	05/05/2011 2118	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 2005			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.53	U	0.53	1.7
4,4'-DDE	0.23	U	0.23	1.7
4,4'-DDT	0.57	U	0.57	1.7
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	1.7
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	0.47	U	0.47	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	Acceptance Limits
Tetrachloro-m-xylene	79	59 - 115
Decachlorobiphenyl	93	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Lab Control Sample - Batch: 280-65376

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-65376/2-A	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65376	Lab File ID:	020F2001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	05/05/2011 1849	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 2005			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.6	9.76	59	57 - 118	
4,4'-DDE	16.6	10.2	62	61 - 115	
4,4'-DDT	16.6	10.0	61	53 - 125	
Aldrin	16.6	12.8	77	60 - 115	
alpha-BHC	16.6	12.5	76	54 - 115	
beta-BHC	16.6	13.0	79	58 - 115	
delta-BHC	16.6	13.9	84	62 - 115	
gamma-BHC (Lindane)	16.6	12.8	77	59 - 115	
Heptachlor	16.6	13.7	83	61 - 115	
Heptachlor epoxide	16.6	13.4	81	62 - 112	
Endosulfan I	16.6	12.3	75	55 - 115	
Endosulfan II	16.6	14.2	86	60 - 115	
Endosulfan sulfate	16.6	14.6	88	58 - 118	
Endrin	16.6	15.8	95	61 - 121	
Endrin aldehyde	16.6	12.6	76	54 - 115	
Endrin ketone	16.6	12.9	78	61 - 118	
gamma-Chlordane	16.6	12.7	77	60 - 115	
Methoxychlor	16.6	13.3	80	52 - 123	
alpha-Chlordane	16.6	12.5	75	60 - 115	
Dieldrin	16.6	13.5	82	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	71	59 - 115
Decachlorobiphenyl	92	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65376

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-15313-11	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65376	Lab File ID:	036F3601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	05/05/2011 2314			Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 2005			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15313-11	Analysis Batch:	280-65948	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65376	Lab File ID:	037F3701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	05/05/2011 2330			Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 2005			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	56	63	57 - 118	12	20	N	
4,4'-DDE	52	59	61 - 115	12	15	N	N
4,4'-DDT	58	62	53 - 125	7	29		
Aldrin	81	83	60 - 115	3	50		
alpha-BHC	76	80	54 - 115	5	17		
beta-BHC	66	76	58 - 115	15	17		
delta-BHC	85	89	62 - 115	5	19		
gamma-BHC (Lindane)	79	82	59 - 115	4	24		
Heptachlor	84	87	61 - 115	3	18		
Heptachlor epoxide	81	85	62 - 112	5	18		
Endosulfan I	75	80	55 - 115	6	26		
Endosulfan II	87	89	60 - 115	3	20		
Endosulfan sulfate	78	84	58 - 118	8	22		
Endrin	101	106	61 - 121	6	30		
Endrin aldehyde	79	74	54 - 115	5	29		
Endrin ketone	79	80	61 - 118	1	20		
gamma-Chlordane	75	80	60 - 115	7	21		
Methoxychlor	74	74	52 - 123	0	23		
alpha-Chlordane	76	80	60 - 115	5	18		
Dieldrin	83	87	63 - 117	5	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	78	76	59 - 115
Decachlorobiphenyl	124	97	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-65369

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-65369/1-A	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-65369	Lab File ID:	028F2801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	05/05/2011 0036	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	05/03/2011 2225			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.8	U	2.8	10
Aroclor 1221	8.0	U	8.0	17
Aroclor 1232	2.0	U	2.0	10
Aroclor 1242	4.7	U	4.7	10
Aroclor 1248	4.7	U	4.7	10
Aroclor 1254	2.6	U	2.6	10
Aroclor 1260	2.6	U	2.6	10

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	87	59 - 130
Tetrachloro-m-xylene	92	53 - 128

Lab Control Sample - Batch: 280-65369

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-65369/2-A	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-65369	Lab File ID:	029F2901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	05/05/2011 0107	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	05/03/2011 2225			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	33.3	29.3	88	54 - 132	
Aroclor 1260	33.3	32.8	98	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	90	59 - 130
Tetrachloro-m-xylene	102	53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65369

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-15313-1	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-65369	Lab File ID:	031F3101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	05/05/2011 0211			Final Weight/Volume:	5000 uL
Prep Date:	05/03/2011 2225			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15313-1	Analysis Batch:	280-65701	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-65369	Lab File ID:	032F3201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	05/05/2011 0242			Final Weight/Volume:	5000 uL
Prep Date:	05/03/2011 2225			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	85	86	54 - 132	1	26		
Aroclor 1260	94	92	62 - 129	2	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	83	84	59 - 130
Tetrachloro-m-xylene	94	96	53 - 128

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-65357

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-65357/1-A	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-65357	Lab File ID:	057B1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	05/04/2011 1448	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			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	80	49 - 115

Lab Control Sample - Batch: 280-65357

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-65357/2-A	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-65357	Lab File ID:	058B1101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	05/04/2011 1521	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	65400	58900	90	57 - 115	
C10-C28	65400	58900	90	53 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65357

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-15313-7	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-65357	Lab File ID:	066B1901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	05/04/2011 1942			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-15313-7	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-65357	Lab File ID:	068B2101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	05/04/2011 2047			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	82	69	57 - 115	12	23		
C10-C28	74	68	56 - 115	8	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	56	52	49 - 115

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65357

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-15313-14	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-65357	Lab File ID:	076B2901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	05/05/2011 0108			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-15313-14	Analysis Batch:	280-65965	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-65357	Lab File ID:	077B3001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	05/05/2011 0140			Final Weight/Volume:	1000 uL
Prep Date:	05/03/2011 1535			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	80	72	57 - 115	10	23		
C10-C28	81	74	56 - 115	10	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	63	60	49 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-65403

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-65403/1-A	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-65403	Lab File ID:	G0505008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	05/05/2011 1423	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	05/03/2011 2220			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	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	Acceptance Limits
Terphenyl-d14 (SUR)	97	72 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Lab Control Sample - Batch: 280-65403

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-65403/2-A	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-65403	Lab File ID:	G0505009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	05/05/2011 1453	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	05/03/2011 2220			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1960	2000	102	72 - 115	
Acenaphthylene	1960	1830	93	60 - 115	
Anthracene	1960	1710	87	61 - 115	
Benzo[a]anthracene	1960	2210	113	76 - 115	
Benzo[a]pyrene	1960	1820	93	69 - 115	
Benzo[b]fluoranthene	1960	2170	111	81 - 115	
Benzo[g,h,i]perylene	1960	2060	105	71 - 115	
Benzo[k]fluoranthene	1960	1990	102	85 - 115	
Chrysene	1960	2050	105	70 - 115	
Dibenzo(a,h)anthracene	1960	2060	105	79 - 115	
Fluoranthene	1960	1940	99	67 - 115	
Fluorene	1960	1830	93	72 - 115	
Indeno[1,2,3-cd]pyrene	1960	2230	114	76 - 115	
Naphthalene	1960	1850	95	77 - 115	
Phenanthrene	1960	1890	96	79 - 115	
Pyrene	1960	1960	100	77 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65403

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-15313-2	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-65403	Lab File ID:	G0505012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	05/05/2011 1625			Final Weight/Volume:	4000 uL
Prep Date:	05/03/2011 2220			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15313-2	Analysis Batch:	280-65746	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-65403	Lab File ID:	G0505013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	05/05/2011 1655			Final Weight/Volume:	4000 uL
Prep Date:	05/03/2011 2220			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	100	104	72 - 115	6	20		
Acenaphthylene	91	95	60 - 115	5	21		
Anthracene	84	88	61 - 115	5	20		
Benzo[a]anthracene	106	110	76 - 115	4	20		
Benzo[a]pyrene	87	90	69 - 115	5	20		
Benzo[b]fluoranthene	102	105	81 - 115	3	20		
Benzo[g,h,i]perylene	98	103	71 - 115	6	20		
Benzo[k]fluoranthene	96	100	85 - 115	5	20		
Chrysene	98	100	70 - 115	3	20		
Dibenzo(a,h)anthracene	99	103	79 - 115	6	20		
Fluoranthene	95	99	67 - 115	5	20		
Fluorene	92	96	72 - 115	5	20		
Indeno[1,2,3-cd]pyrene	106	111	76 - 115	6	20		
Naphthalene	93	97	77 - 115	5	20		
Phenanthrene	94	98	79 - 115	5	20		
Pyrene	96	99	77 - 115	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	94	97	72 - 115

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-65377

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-65377/1-A	Analysis Batch:	280-65936	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/05/2011 1155	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				
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: 280-15313-1
Sdg Number: JP0175

Lab Control Sample - Batch: 280-65377

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-65377/2-A	Analysis Batch:	280-65936	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/05/2011 1158	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	191.1	96	82 - 116	
Antimony	50.0	49.48	99	82 - 110	
Arsenic	100	100.1	100	85 - 110	
Barium	200	203.6	102	87 - 112	
Beryllium	5.00	4.94	99	84 - 114	
Boron	100	97.12	97	81 - 110	
Cadmium	10.0	10.65	106	87 - 110	
Calcium	5000	5052	101	82 - 114	
Chromium	20.0	19.51	98	84 - 114	
Cobalt	50.0	49.32	99	87 - 110	
Copper	25.0	24.88	100	88 - 110	
Iron	100	103.5	103	87 - 120	
Lead	50.0	50.15	100	86 - 110	
Magnesium	5000	4814	96	90 - 110	
Manganese	50.0	48.57	97	88 - 110	
Molybdenum	100	100.5	101	86 - 110	
Nickel	50.0	48.40	97	87 - 110	
Potassium	5000	5012	100	89 - 110	
Selenium	200	197.4	99	83 - 110	
Silicon	1000	110.1	11	10 - 70	
Silver	5.00	4.94	99	87 - 114	
Sodium	5000	5124	102	90 - 112	
Vanadium	50.0	49.13	98	88 - 110	
Zinc	50.0	48.26	97	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Matrix Spike - Batch: 280-65377

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15313-1	Analysis Batch:	280-65936	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.16 g
Analysis Date:	05/05/2011 1207	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	9770		178	11780	1126	50 - 200	4
Antimony	0.37	U	44.6	19.05	43	20 - 200	
Arsenic	38.3		89.2	116.9	88	76 - 111	
Barium	66.9		178	237.5	96	52 - 159	
Beryllium	0.098	B	4.46	4.04	88	72 - 105	
Boron	1.5	B	89.2	78.47	86	75 - 107	
Cadmium	0.36		8.92	9.06	98	40 - 130	
Calcium	3830		4460	8553	106	43 - 165	
Chromium	13.9		17.8	30.33	92	70 - 200	
Cobalt	7.5		44.6	47.35	89	72 - 106	
Copper	16.8		22.3	37.09	91	37 - 187	
Iron	19300		89.2	19590	283	70 - 200	4
Lead	34.6		44.6	67.82	74	70 - 200	
Magnesium	4480		4460	8710	95	64 - 145	
Manganese	294		44.6	344.4	113	40 - 200	4
Molybdenum	0.37	B	89.2	79.21	88	75 - 103	
Nickel	12.8		44.6	53.03	90	61 - 126	
Potassium	1430		4460	5702	96	56 - 172	
Selenium	0.85	U	178	160.4	90	76 - 104	
Silicon	307		892	401.2	11	20 - 200	N
Silver	0.16	U	4.46	4.01	90	75 - 141	
Sodium	208		4460	4671	100	78 - 111	
Vanadium	38.7		44.6	82.12	97	50 - 169	
Zinc	36.5		44.6	75.55	88	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Duplicate - Batch: 280-65377

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15313-1	Analysis Batch:	280-65936	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-65377	Lab File ID:	26a050511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	05/05/2011 1205	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	9770		9703	0.7	40	
Antimony	0.37	U	0.38	NC	40	U
Arsenic	38.3		39.69	4	30	
Barium	66.9		69.11	3	30	
Beryllium	0.098	B	0.0914	7	30	B
Boron	1.5	B	1.41	9	30	B
Cadmium	0.36		0.378	4	30	
Calcium	3830		3813	0.4	30	
Chromium	13.9		13.39	4	40	
Cobalt	7.5		7.59	1	30	
Copper	16.8		17.93	7	30	
Iron	19300		19650	2	40	
Lead	34.6		31.26	10	40	
Magnesium	4480		4493	0.3	30	
Manganese	294		300.4	2	40	
Molybdenum	0.37	B	0.26	NC	30	U
Nickel	12.8		13.24	3	30	
Potassium	1430		1412	2	40	
Selenium	0.85	U	0.86	NC	30	U
Silicon	307		332.1	8	40	
Silver	0.16	U	0.16	NC	30	U
Sodium	208		204.5	2	30	
Vanadium	38.7		39.27	1	30	
Zinc	36.5		36.46	0.2	40	

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Method Blank - Batch: 280-65519

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-65519/1-A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	05/05/2011 2029	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-65519

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-65519/2-A	Analysis Batch:	280-65930	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	05/05/2011 2032	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.414	99	87 - 111	

Matrix Spike - Batch: 280-65519

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-15313-1	Analysis Batch:	280-65930	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/05/2011 2039	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.011	B	0.431	0.416	94	87 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Duplicate - Batch: 280-65519

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-15313-1	Analysis Batch:	280-65930	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-65519	Lab File ID:	110505AG.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.61 g
Analysis Date:	05/05/2011 2036	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/05/2011 1425				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.011	B	0.00865	27	20	B M

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15313-1
Sdg Number: JP0175

Duplicate - Batch: 280-65382

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-15313-1	Analysis Batch:	280-65382	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:	05/03/2011 1431	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	3.3	1.7	66	20	M

3-8, 5-4, 1-0, -0.4 5/3/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page ~~1 of 10~~ 1 of 4

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8S	Data Turnaround: ~~21~~ 7 Days		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: WCH-08-042	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle / FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: 7947 1132 9680

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) + ++	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time									
~~J1HK53~~	~~SOIL~~											
~~J1HK54~~	~~SOIL~~											
J1HK55	SOIL	4/28/11	1035	X		X	X	X	X	X		
J1HK56	SOIL	4/28/11	1025	X		X	X	X	X	X		
J1HK57	SOIL	4/28/11	0945	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	4-28-11 1400	JV Fullmer	1400 4/28/11
JV Fullmer	4/28/11 1810	J. E. Beck	1810 4-28-11
J. E. Beck	1000 4-28-11 5-2-11	Fed Ex	
			5/3/11 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)

x 20 mL vial → % moisture

xx freeze upon receipt

Voa Samples Frozen Upon Collection 4/28/11

REVIEWED BY AJ DATE 5-2-11

JP0175

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

3.8, 1.0 (TV 5/3/11) -0.4

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page ~~8 of 10~~ 2 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		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: WCH-08-042	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7947 1132 9680

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

SAMPLE ANALYSIS												
			Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C		
			Type of Container	G/P	G/P	G	Gs*	aG	aG	aG		
			No. of Container(s)	1	1	1	5	1	1	1		
			Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL		
				See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) x xx	PCBs - 8082	PAHs - 8310	Pesticides - 8081		
Sample No.	Matrix *	Sample Date	Sample Time									
J1HK58	SOIL	4/28/11	0950	X		X	X	X	X	X		
J1HK59	SOIL	4/28/11	0935	X		X	X	X	X	X		
J1HK60	SOIL	4/28/11	1005	X		X	X	X	X	X		
J1HK61	SOIL	4/28/11	1230	X		X	X	X	X	X		
J1HK62	SOIL	4/28/11	0915	X		X	X	X	X	X		

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: K. Lucas Keeven Lucas	Date/Time: 4-28-11 1400	Received By/Stored In: JV Fullmer	Date/Time: 1400 4/28/11
Relinquished By/Removed From: JV Fullmer	Date/Time: 1810 4/28/11	Received By/Stored In: J.E. Bell	Date/Time: 1810 4-28-11
Relinquished By/Removed From: J.E. Bell	Date/Time: 1000 5-2-11	Received By/Stored In: Fed Ex	Date/Time:
Relinquished By/Removed From:	Date/Time:	Received By/Stored In:	Date/Time: 5/3/11 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)

x 20 mL vial → % moisture

xx freeze upon receipt

9W 4/28/11

Voa Samples Frozen Upon Collection

REVIEWED BY AJ DATE 5-2-11

JP0175

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

3.8 1.5 5/3/11 - 0.4

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page ~~9 of 10~~ 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: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: WCH-08-042	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle (FedEx)
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7947 1132 9680

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) x xx	PCBs - 8082	PAHs - 8310	Pesticides - 8081			
Sample No. / Matrix * / Sample Date / Sample Time										
J1HK63 / SOIL / 4/28/11 / 1310	X		X	X	X	X	X			
J1HK64 / SOIL / 4/28/11 / 1320	X		X	X	X	X	X			
J1HK65 / SOIL / 4/28/11 / 1250	X		X	X	X	X	X			
J1HK66 / SOIL / 4/28/11 / 1300	X		X	X	X	X	X			
J1HK67 / SOIL / 4/28/11 / 0850	X		X	X	X	X	X			

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: K. Lucas Kevin Lucas	4-28-11 1400	JV Fullmer	1400 4/28/11
Relinquished By/Removed From: JV Fullmer	1810 4/28/11	Received By/Stored In: J.E. Bell	1810 4-28-11
Relinquished By/~~Removed From~~: J.E. Bell	1000 5-2-11	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In:	5/3/11 0930
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

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

x 20 mL vial → % moisture

xx freeze upon receipt

Voa Samples Frozen Upon Collection

REVIEWED BY AF DATE 4-5-2-11

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

JP0175

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

WCH-EE-011

3.8 ~~1.6~~ -0.4 [illegible]

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page ~~10 of 10~~ 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: 600-151 Verification Sampling	SAF No.: RC-107	
Ice Chest No.: WCH-08-042	Field Logbook No.: EL 1627-05; COA: 0601512000	Method of Shipment: Government Vehicle/FedEx	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7947 1132 9680	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool to 4 degrees C

Preservation	None	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C			
Type of Container	G/P	G/P	G	Gs*	aG	aG	aG			
No. of Container(s)	1	1	1	5	1	1	1			
Volume	60mL	60mL	120mL	40mL	120mL	120mL	120mL			
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Chromium Hex - 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) x xx	PCBs - 8082	PAHs - 8310	Pesticides - 8081			

Sample No.	Matrix *	Sample Date	Sample Time										
J1HK68	SOIL	4/28/11	1035	X		X	X	X	X	X			
J1HK69	SOIL	4/28/11	0815	X					X				

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From: K. Lucas Kaleen Lucas	428-11 1400	Received By/Stored In: JV Fullmer	1400 4/28/11
Relinquished By/Removed From: JV Fullmer	1810 4/28/11	Received By/Stored In: J.E. Bell	1810 4-28-11
Relinquished By/Removed From: J.E. Bell WCH	1000 5-2-11	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In: [illegible]	5/3/11 0930
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

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

x 20mL vial → % moisture

xx freeze upon receipt.

Voa Samples Frozen Upon Collection

REVIEWED BY AJ DATE 5-2-11

JP0175

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

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

WCH-EE-011

3-8, ~~1-6~~ 9/1/11 -0.4

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-071	Page 1 of 1

Collector: K. Lucas	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8L~~ 8B (qr 4/28/11)	Data Turnaround: ~~21~~ 7 Days (qr 4/28/11)		
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 600-151 Verification Sampling		SAF No.: RC-107
Ice Chest No.: WCH-08-042	Field Logbook No.: EL 1627-05	COA: 0601512000	Method of Shipment: Government Vehicle/FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver (qr 4/28/11)	Offsite Property No.: NA		Bill of Lading/Air Bill No.:

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Freeze

Preservation	Freeze											
Type of Container	Gs*											
No. of Container(s)	5											
Volume	40mL											
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL)											
	+ XX											

Sample No.	Matrix *	Sample Date	Sample Time										
~~J1HKF5~~	~~SOIL~~		(qr 4/28/11)										
~~J1HKF6~~	~~SOIL~~		(qr 4/28/11)										
J1HKF7	SOIL	4/28/11	0835	X									
~~J1HKF8~~	~~SOIL~~		(qr 4/28/11)										

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K. Lucas Kevin Lucas	4-28-11 1400	JV Fullmer	4/28/11 1400
JV Fullmer	4/28/11 1810	J.E. Beal	4-28-11 1810
J.E. Beal	5-2-11 1000	Fed Ex	
			5/3/11 0930

SPECIAL INSTRUCTIONS

+ 20 mL vial → % moisture

XX freeze upon receipt

qr 4-28-11

REVIEWED BY AF DATE 5-2-11

AF 5-2-11

Voa Samples Frozen Upon Collection

JP0175

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 - 60107E solid

Analytical Due:

Report Due: 5/10/11 (Rad STAT)

Sample Check-in List

Date/Time Received: 5/3/11 0930 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: JP0175 NA[ ] SAF #: RC-107 NA [ ]

Job Number: 15313 Chain of Custody # RC-107-070, 071

Shipping Container ID: WCH-08-042 WCH-11-029 Air Bill # 7947113296 80; 7947113297 61

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: 3.8°, -0.4° NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [✓]
6. Number of samples in shipping container: 16
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:** 5/3/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 5/4/11

From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx Express

J11151102250225

Ship Date: 02MAY11
ActWgt: 76.0 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 2

TUE - 03 MAY A1
PRIORITY OVERNIGHT

TRK# 7947 1132 9680
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG1/1577/7EFB

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 02MAY11
ActWgt: 43.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 2

TUE - 03 MAY A1
PRIORITY OVERNIGHT

MPS# 7947 1132 9761
0263
Mstr# 7947 1132 9680 0201

XH WHHA

80002
CO-US
DEN

50DG1/1577/7EFB

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